

1068 EXXON # 7-0236, 6630 East 14th Street, Oakland, CA 94621
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2/26/96 New case from TP. Review Environmental Resolutions, Inc. (ERI) "Quarterly Groundwater Monitoring, Fourth Quarter 1995". Groundwater appears to flow in a southwest direction with a calculated hydraulic gradient of 0.027 for the November 1995 sampling event. Well MW2 appears to be the source well, being hydraulically downgradient of the present USTs. Laboratory analysis of the groundwater collected from well MW-2 detected TEPHd, TPHg, BTEX and MTBE at concentrations of 1800 ppb, 6400 ppb, 120 ppb, 11 ppb, 95 ppb, 38 ppb, and 24,000 ppb, respectively.

Review file and prepare site summary. The subject site is currently operated as an Exxon retail service station. Three (3) underground fuel storage tanks (USTs) and one (1) underground used-oil storage tank are located on the property.

In March 1991, three on-site groundwater monitoring wells (MW-1, MW-2 and MW-3) were installed by Alton Geoscience (AG).

In March 1992, two additional on-site groundwater monitoring wells (MW-6 and MW-7) and two off-site groundwater monitoring wells (MW-4 and MW-5) were installed by AG.

Exxon initiated quarterly groundwater monitoring at the site in January 1992. The groundwater flow direction at the site is generally to the southwest.

During November and December 1993, RESNA performed a "Supplemental Environmental Investigation" to further evaluate the source and lateral extent of hydrocarbons in the soil and groundwater, and to evaluate the effective radius of influence and anticipated hydrocarbons concentrations for a vapor extraction system. Specific tasks associated with this investigation included drilling five soil borings into first encountered groundwater, collecting soil samples from the borings, collecting groundwater samples from two of the borings, installing vapor extraction wells in three of the borings, analyzing selected soil and groundwater samples, conducting a step drawdown test to evaluate the pumping rate of the aquifer, and conducting a vapor extraction test. (VET). Based on the results of this investigation, pumping and treating groundwater from beneath the site does not appear to be a feasible remediation technique and vapor extracting residual hydrocarbons in soil beneath the site will have limited practical application. Also, the available data indicates that relatively low concentrations of residual hydrocarbons beneath the site appear to be limited to soil beneath the USTs and near the pump islands.

Comments/suggestions: This site has a number of wells where groundwater sampling has been non-detect for TEPHd, TPHg, BTEX and MTBE for several quarters. Draft letter reducing sampling frequency in wells MW1, MW4 and MW7 to bi-annual (1st and 3rd quarters).

2/28/96 Final draft of letter after BC review. Letter sent.

- 5/23/96 Review EXXON CAP- prepared by ERI, dated April 4, 1996. Fate and transport modeling was accomplished by collecting one shallow soil sample and analyzing the soil sample for moisture content, bulk and grain density, effective porosity, native state effective permeability to water, native state effective hydraulic conductivity, and total organic carbon (TOC) content.
- ERI recommends continued monitoring of plume allowing for natural attenuation to reduce the concentration and size of the hydrocarbon plume. Confer with BC pertaining to CAP. RBSLs are exceeded in well MW-2 (benzene concentration in MW-2 was 110 ppb on 8/8/95) for the exposure pathway "Groundwater-Vapor Intrusion from groundwater to Buildings (benzene 0.069 ppm-Cancer risk of 1E-05) Seems fine to me.
- 6/3/96 Review EXXON "Quarterly Groundwater Monitoring, First Quarter 1996" prepared by ERI-dated March 29, 1996.
- 7/23/96 Review EXXON "Quarterly Groundwater Monitoring, Second Quarter 1996" prepared by ERI-dated July 23, 1996. TEPHd, TPHg, BTEX and MTBE were detected in monitoring well MW2 at concentrations of 2,300, 11,000, 210, 120, 210, 140 and 26,000 ppb, respectively.
- 10/29/96 Meeting at 10:00am with representatives of MWM Properties (Eva Williams and her husband). They said that they are not owners of the property where the EXXON station is located. They showed me the assessors parcel map showing their parcel (39-3246-27-1, lots 1,2,3,4 & 78) in relation to the service station. Review files at ALCO assessors office. The property where the station is located is actually 6600 East 14th Street (parcel 39-3246-29, lots 5,6,7,8 & 9). Owners of the 6600 East 14th Street property are Smith, V N & L C etal, address 3939 Walnut Avenue, Carmichael, CA 95608. Revised NOR letters need to be sent and database updated to show correct address. Call to Eva Williams.
- 10/30/96 Update HazMat database, except for address change, which is a read-only field. Confer with Connie and Norma concerning address correction. Give information to Ben G., for database input.
- 11/12/96 Received "certified receipt" for revised NORs. Did not receive the copy of the NOR as signed off by GC. Talk to TP. Gave him the "certified receipts".
- 11/15/96 Review ERI "Quarterly Groundwater Monitoring, Third Quarter 1996"-dated 10/11/96. Draft letter requesting quarterly sampling of wells showing highest levels of petroleum contamination sent after BC review.
- 11/18/96 Reviewed letter from Dennis, Schottky, Swanberg & Braunstein requesting that Vigo. Smith be named as a "Secondary RP". Draft letter for BC review.

- 11/19/96 Final draft of letter sent. Call from Mark Briggs of Environmental Resolutions (415)382-5991. He wants to pull USTs sometime in December 1996, and abandon wells MW-1 and MW-7 on the 6630 property.
- 11/20/96 Calls from Mark Briggs and Karl Morthole. Faxed him information on groundwater monitoring and sampling and site map showing locations of Mws.
- 11/25/96 Calls from/to Karl Morthole.
- 12/2/96 Office visit from Mark Briggs, to sign A & B Forms.
- 12/4/96 Calls from/to/to Mark Briggs. Review EXXON letter dated 11/22/96. Station is to be closed 12/13/96. Review RESNA RAP-dated 5/12/94.
- 12/9/96 Update site summary.
- 12/13/96 On site for demolition as stated in the EXXON letter. I was under the impression that the tanks were being pulled today. Mark Briggs had stated that the tanks were to be the middle of the month. No one on site.
- 12/16/96 Returned to site. Asphalt was being removed from the adjacent 6630 property. Talked with representative of ERI. He will get back with Mark Briggs to determine when USTs were to be closed. He stated perhaps this Friday the 20th, since he was scheduled to do sampling.
- 1/6/97 Reviewed file. BC was covering me for on-site LOP for the removal of four USTs at the 6600 E. 14th Street site. Calls from/to Glenn Matucci of Environmental Resolutions (415)382-5994. Review "WP to Destroy & Replace Wells"-dated 12/12/96. Gave verbal approval, draft approval letter.
- 1/13/97 Final draft of letter sent after BC review. Call to Marc Briggs of ERI, he stated that UST pit is still open, but has standing water and cannot be backfilled at this time. They want to do some over-excavation in the product piping area, but would like to backfill part of the UST pit first, in order to get access to the area of concern. He is going to talk to EXXON tomorrow in order to get funding for a geophysical survey on the adjoining 6630 E. 14th Street property, where apparently a Texaco station had operated for many years (as confirmed by Eva Williams).