

## Nowell, Keith, Env. Health

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**To:** TimBishop@chevron.com  
**Cc:** jim.harms@aecom.com; Fischer, Alexis N; Roe, Dilan, Env. Health  
**Subject:** Fuel Leak Case RO58 Unocal #6129, 3420 35th Ave., Oakland

Dear Mr. Bishop,

Thank you, Jim Harms of AECOM, and Alexis Fischer of Chevron Environmental Management Company (Chevron) for participating in the meeting on April 8, 2014 regarding fuel leak case for Unocal #6129, 3420 35th Avenue, Oakland, Alameda County Environmental Health (ACEH) case number RO00000058. The purpose of the meeting was to discuss the status of the case and identify action items to move the case forward toward closure. Items discussed during the meeting included hydrology in the vicinity of the site, potential impacts to a nearby off-site irrigation well, and potential on-site migration of contaminants from the up gradient former Valero gas station located across Quigley Street. A draft site conceptual model was presented at the meeting to facilitate the discussion.

Hydrology - The physical site setting has the site located at the southeast corner of 35<sup>th</sup> Avenue and Quigley Street and is bounded by Highway 580 on the southwest. The predominant ground water flow direction is to the southwest and an irrigation well is located approximately 550 feet to the southwest, on the other side of the highway. At this location Highway 580 is depressed approximately 30 feet below the elevation of the subject site and depths to groundwater vary from approximately 24.5 feet below the ground surface (bgs) to 31.6 feet bgs. The effect on groundwater flow caused by the depressed highway may influence potential impacts to the irrigation well as well as present an artificial barrier to groundwater flow. Additionally, potentially impacted groundwater may be entering the highway drainage system. An investigation of Caltrans storm water collection and discharge points was agreed to at the meeting.

Irrigation Well – As discussed above, an irrigation well is located approximately 550 feet southwest of the site, on the other side of the highway. As the status of the well is unknown, Chevron will contact the owner to verify status of the well.

Former Valero Gas Station – Valero #3832 was located opposite the site across Quigley Street. The inactive station property at 3450 35<sup>th</sup> Avenue, is located up-gradient from the site and is an active leaking underground storage tank case. The subject Unocal site has two up-gradient groundwater monitoring wells (MW-1 and MW-2). Well MW-1 has been experiencing increasing concentrations trends for total petroleum hydrocarbons as gasoline (TPHg) and methyl tertiary butyl ether (MTBE) starting by 2010. Well MW-2 also has been experiencing increasing concentration trends for TPHg and MTBE, from possibly as early as 2008. The down gradient monitoring well, MW-3, is experiencing a decreasing contaminant concentration trend. Impacts from on-site releases appear to be attenuating. Based on the results of a sensitive receptor survey, a decision will be made as to whether further assessment is required to assess the potential groundwater contaminant contribution from this up gradient site.

As discussed in the meeting please prepare an updated site conceptual model with data gap identification in table format to address down gradient receptors.

### Technical Report Request

Please provide a draft technical report to ACEH (Attention: Keith Nowell), via email following specified schedule:

- **May 2, 2014 –Site Conceptual Model with Data Gap Identification Work Plan (draft)** (file name: RO000058\_SCM\_WP\_R\_yyyy-mm-dd)

Thank you for your cooperation. ACEH looks forward to working with you and your consultant to advance the case toward closure. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at [keith.nowell@acgov.org](mailto:keith.nowell@acgov.org).

Respectfully,

Keith Nowell

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