



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

August 1, 2014

State Water Resources Control Board Division of Water Quality
George W. Lockwood, MSCE, PE
1001 "I" Street
PO Box 2231
Sacramento, CA 95812
(sent via email to George.Lockwood@waterboards.ca.gov)

Subject: GeoTracker Impacted Water Wells Status per AB 2222

Dear Mr. Lockwood:

Alameda County Environmental Health Local Oversight Program (ACEH) has reviewed the data contained in the State Water Resources Control Board (SWRCB) Excel spreadsheet attached to your June 27 and July 10, 2014 emails to verify the status of the twenty-eight (28) private domestic wells previously identified by ACEH as impacted.

Our verification process included a review of the case files associated with each listed well including groundwater monitoring analytical data, groundwater flow direction, and lateral and vertical delineation of the potential off-site plume. The 28 listed private domestic wells are associated with eight individual fuel leak site cases (GeoTracker Global ID No's [T0600191157](#), [T0600102298](#), [T0600100315](#), [T0600100303](#), [T0600100379](#), [T0619717287](#), [T0600101947](#), and [T0600100085](#)), three of which are closed. Based on a review of the case files for the remaining five sites, ACEH has determined that only two (2) wells are currently impacted with constituents of concern (COCs).

The two impacted wells discussed in detail below (associated with GeoTracker ID No's [T0600100315](#) and [T0600100303](#)) need to be located in GeoTracker's *Impacted Well Tool*; however, ACEH does not have access to the GeoTracker *Impacted Well Tool* at this time as we do not have a signed confidentiality agreement with the California Department of Public Health (CDPH) Division of Drinking Water and Environmental Management. Currently, the ACEH Director and Alameda County legal counsel are reviewing the confidentiality agreement. In lieu of not having a signed confidentiality agreement, ACEH requests that the SWRCB locate the two impacted wells utilizing the *Impacted Well Tool*.

A summary of our review is provided below.

Closed Cases

Nineteen of the wells are associated with three sites ([T0619717287](#), [T0600100085](#), and [T0600101947](#)) that have been closed subsequent to the original listing. ACEH closed two cases ([T0619717287](#), and [T0600100085](#)). The SWRCB closed one case [T0600101947](#).

- [T0619717287](#) - Case closed July 2014 by ACEH.

This site had an on-site water well/production well. This site was listed by ACEH as an impacted well due to historic observations of free product in the 12-inch diameter well. The well was subsequently decommissioned in May 2012.

- T0600100085 - *Case closed February 2013 by ACEH.*
Fourteen (14) domestic/irrigation wells were listed by ACEH with this site. Eight wells were destroyed from 1996 to 2004. Four wells were destroyed due to groundwater contamination reported above analytical laboratory reporting limits (RLs) as of their last groundwater monitoring event from 1993 to 2002. These historically impacted, destroyed domestic wells are located at: 17371 Via Magdalena, 17349 Via Magdalena, 17200 Via Magdalena, 633 Hacienda Ave (all San Lorenzo). The remaining five of six tested wells had COCs below RLs from 1996 to 2005; one well was not tested because it couldn't be located.
- T0600101947 - *Case closed December 2013 by SWRCB.*
Four domestic wells are associated with the SWRCB closed case (T0600101947). One of four wells (located at 413 W. Sunset Blvd.) historically impacted with methyl tert-butyl ether (MTBE) (1,200 µg/L) in 1996 was re-tested in 2010 and all COCs were below RLs. This historically impacted well was destroyed in August 2013. ACEH had requested sampling of three other domestic wells in the potential future case these off-site domestic wells ever returned to service. The SWRCB noted MTBE was not detected in monitoring well MW-1 located in the on-site source area. The SWRCB further stated there are no other additional wells located within 250 feet from the source. As a result of the SWRCB recommendation to close the case, the domestic well sampling was never performed. The SWRCB closed the case under the Low-Threat Closure Policy (LTCP) as a soils only case.

Open Cases

Nine private domestic wells are associated with five open cases (T0600191157, T0600102298, T0600100315, T0600100303, and T0600100379). Two of the nine wells are currently impacted. Of the remaining seven wells, three wells had historical impacts but are currently without COC detections, two wells were never sampled, and two wells were sampled and never had COC detections above reporting limits (RLs). It appears that these wells were originally listed based on identification as potential receptors or vertical migration pathways. Descriptions of the two impacted wells are bold underlined below.

- T0600191157
Two domestic were listed by ACEH as impacted by the site.
 - The first domestic irrigation well located approximately 850 feet south-southwest down-gradient of the site at 1573 153rd Avenue was impacted with tertiary butyl alcohol (TBA) (20 µg/L) on 1/8/2008. COCs including TBA were not reported above RL on 07/2008 and 10/2008. Apparently this well still exists per groundwater monitoring (GWM) report maps and is currently unused.
 - The second domestic well located at 1612 Oriole is located 1,800 feet south-southeast down- to cross-gradient of the site. Current down-gradient monitoring wells MW06 and MW07 (located 1,280 and 1,185 feet, respectively, from 1612 Oriole) are impacted with total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, xylenes (BTEX), and TBA. Although this well has never been tested, it is a potential receptor, and therefore ACEH has requested that this well be tested.

- T0600102298

One domestic well was listed by ACEH as impacted by the site. The site's service station is no longer in operation, and currently the site is a vacant lot. Remediation efforts are ongoing to reduce groundwater contaminant mass. Groundwater flow is predominantly north with the domestic well located on the property's southeast corner.

 - The single on-site livestock/domestic well (noted as WSW-1) was historically impacted with B, T, X; ethylbenzene was not analyzed; TPH was below RL on 4/5/1989. Subsequent analytical testing showed TPH-g, BTEX, and MTBE reported as below RLs from 11/15/1995 to 11/23/2011. Although COCs are below their RLs, per ACEH directive the on-site supply well is scheduled for destruction in 2014 due to the supply well's potential as a vertical conduit and the property owner's intention to redevelop the site.

- T0600100315 (Impacted Well Site)

Three residential wells were listed by ACEH as impacted by the site or as potential receptors or vertical migration pathways. Groundwater flow is predominantly to the southwest with concentration isocontours for TPH-g and B indicating off-site plume migration to the south-southwest.

 - **22047 Rio Vista St. located 600 feet south-southwest down-gradient of the site. This well is currently impacted with 2.0 µg/L MTBE reported on 10/1/2004. Currently used for irrigation.**

 - 1180 Rex Rd. located 80 feet southwest down-gradient of the site. This well is not currently impacted. COCs were reported below the RLs on 10/1/2004. The responsible party and ACEH are working with the private domestic well owner to properly destroy their well per well owner request. The well is currently unused.

 - 1108 Rex Rd. located 430 feet southwest down-gradient of the site. This well is currently not impacted. COCs were reported below the RLs on 10/1/2004. Currently used for irrigation.

- T0600100303 (Impacted Well Site)

Two off-site domestic wells are listed by ACEH as impacted by the site or as potential receptors or vertical migration pathways. Groundwater flow is predominantly southwest with down-gradient off-site monitoring wells MW-8 and MW-13 impacted with MTBE (750 and 2 µg/L, respectively). Monitoring wells MW-8 and MW-13 are located approximately 1,150 feet and 1,120 feet northeast, respectively, of the off-site domestic wells on Bevil Way.

 - **16322 Bevil Way located 1,300 feet southwest down-gradient of the site. This well is currently impacted with 2.3 µg/L MTBE reported on 2/13/2012. Currently reported as an unused well.**

 - 16308 Bevil Way located 1,300 feet southwest down-gradient of the site. No sampling of this domestic well was ever reported. Currently used as an irrigation well.

- T0600100379

One on-site industrial well was listed by ACEH as impacted by the site.

 - The on-site industrial well was historically impacted (with TPH-Stoddard solvent, TPH-g, T, X) from 03/2002 to 05/2008. Detection of MTBE was reported once on 12/18/2008 at 0.7 µg/L. The well was resampled quarterly from 02/2009 to 08/2012, and no COCs were reported above their RLs.

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If you have any questions, please call Matthew Soby at (510) 567-6725 or send me an electronic message to matthew.soby@acgov.org. Thank you for the opportunity to verify the impacted well list.

Sincerely,

Dilan Roe, P.E.
LOP and SCP Program Manager

Cc:

Kevin L. Graves, PE, State Water Resources Control Board, 1001 "I" Street, PO Box 2231, 15th Floor,
Sacramento, CA 95814

eFile, GeoTracker