

The interpreted groundwater chromium plume outline presented for this area was prepared following the Water Board's contouring requirements specified in the September 29, 2011 Investigative Order REV-2011-0079. An alternative interpretation of the chromium plume outline is presented as Figure 3-1A. This alternative chromium plume contouring was prepared using site-specific hydrogeologic and geochemical information collected to date. Additional time is required to analyze and discuss more recent monitoring results that will be used to guide future implementation of activities in this area.

Approximate outline of Cr(VI) or Cr(T) in the Upper Aquifer exceeding 3.1 and 3.2 µg/L, respectively, Second Quarter 2013.

Approximate 10-µg/L outline of Cr(VI) or Cr(T) concentrations in the Upper Aquifer, Second Quarter 2013.

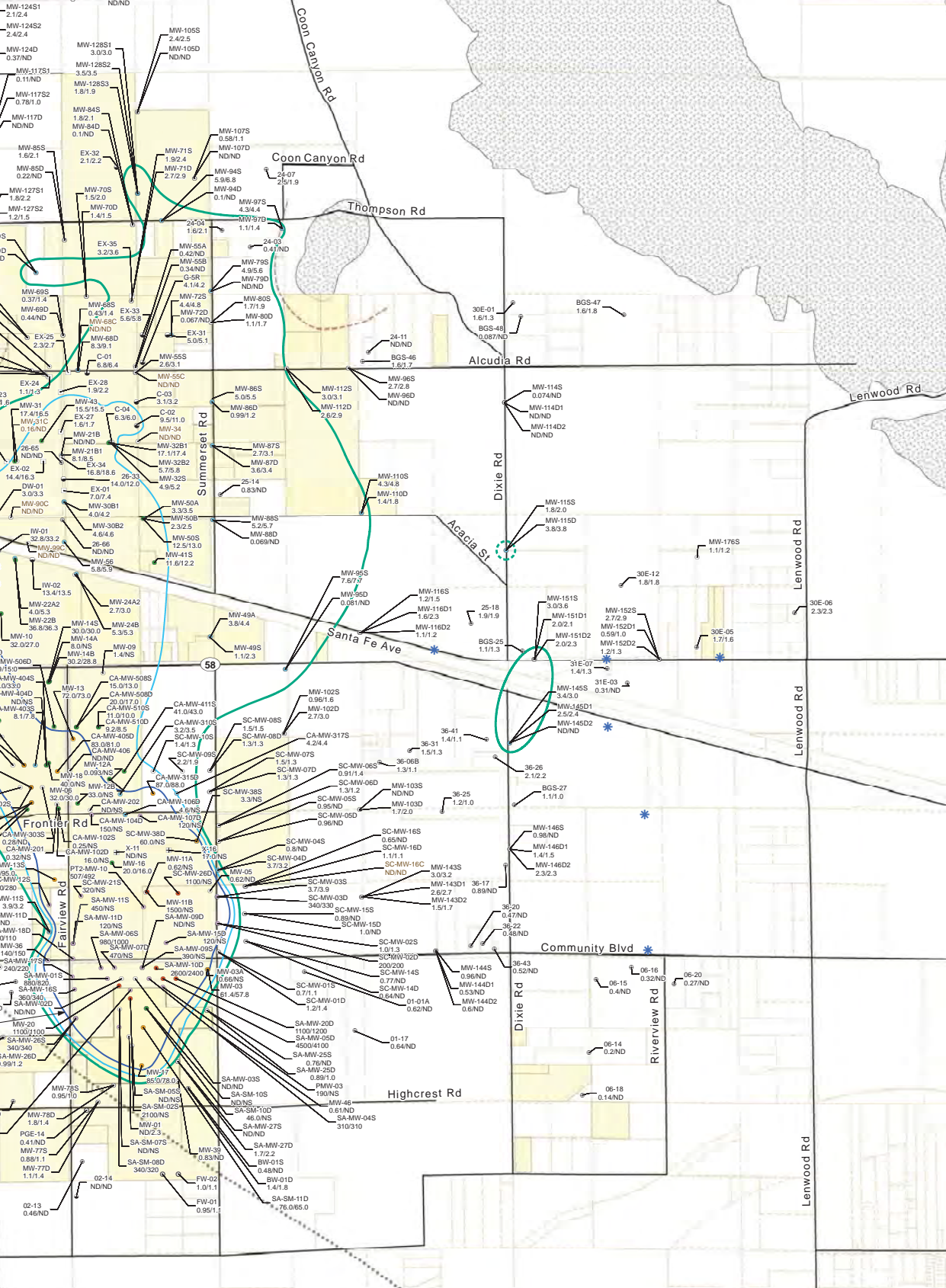
Approximate 50-µg/L outline of Cr(VI) or Cr(T) concentrations in the Upper Aquifer, Second Quarter 2013.

WESTERN AREA
SEE FOOTNOTE 4

- LEGEND:**
- Groundwater monitoring well
 - Agricultural supply well
 - Domestic supply well
 - Other supply well
 - Groundwater extraction well (active)
 - ⊕ Multituse test well, or inactive extraction/injection well
 - ⊕ Freshwater injection well
 - PG&E-owned property
 - County parcels
 - Transmission lines
 - Approximate limit of saturated alluvium upper aquifer
 - ⋯ Approximate location of Lockhart Fault; fault trace is inferred, and there is no surface expression (Stamos et al., 2001)
 - Bedrock exposed at ground surface
 - Western area

- Abbreviations:**
µg/L micrograms per liter
Cr(VI) hexavalent chromium
Cr(T) total dissolved chromium
IRZ In Situ Reactive Zone
ND not detected
NS not sampled
- Groundwater Cr(VI) concentrations in monitoring wells:**
- More than 1,000 µg/L
 - 100 to 1,000 µg/L
 - 50 to 100 µg/L
 - 10 to 50 µg/L
 - 3.1 to 10 µg/L
 - Less than 3.1 µg/L or ND

- NOTES:**
- Chromium results are shown for site-wide Groundwater Monitoring Program and domestic selected IRZ monitoring wells are shown to aid in plume mapping. For wells sampled monthly.
 - The concentration contours are based on Second Quarter 2013 chromium results for the Upper Aquifer as noted on Figures 3-2 and 3-3. Results for domestic wells and Lower Aquifer are not shown.
 - Concentration contours represent the maximum extent of either Cr(VI) or Cr(T) at any depth within the 50-, 10-, and 3.1/3.2-µg/L chromium contours are less than the contoured concentration.
 - An evaluation of available hydrogeologic and groundwater quality data for the shaded Western Area and the Occurrence of Chromium in Groundwater of the Western Area. Western Area contains naturally occurring chromium.
- * Monitoring well MW-154S1 is completed in low permeability sediments across the water table and may not be representative of the groundwater conditions in the Upper Aquifer as sampled.



domestic wells sampled in the Second Quarter (April through June) 2013 monitoring period. Second Quarter 2013 results for sampled multiple times during the reporting period, the most recent results are shown.

Results for the groundwater monitoring and extraction wells that are completed in the shallow zone and deep zone of the Lower Aquifer monitoring wells (brown-colored labels) were not used for chromium plume contouring.

Results for any depth within the Upper Aquifer based on Second Quarter 2013 chromium results. Some chromium results for wells are red concentrations.

The shaded Western Area shown on this figure was included in the January 14, 2013, document titled *Conceptual Site Model for Western Area Report* (CH2MHILL and Stantec, 2013). The findings of the January 14 report indicate that groundwater in the

water table. This well purges dry during sampling and is very slow to recharge. Groundwater samples from this well sampled in other wells in this area.

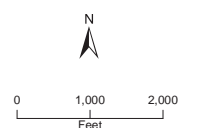


FIGURE 3-1B
CHROMIUM RESULTS FOR SECOND
QUARTER 2013 GROUNDWATER
MONITORING AND COMPLIANCE
WELL SAMPLING AND COMPLIANCE
MAXIMUM PLUME OUTLINE
IN UPPER AQUIFER
 SECOND QUARTER 2013 GROUNDWATER MONITORING
 REPORT AND DOMESTIC WELL RESULTS
 SITE-WIDE GROUNDWATER MONITORING PROGRAM
 PACIFIC GAS AND ELECTRIC COMPANY
 HINKLEY COMPRESSOR STATION
 HINKLEY, CALIFORNIA