

LEGEND:

- Groundwater Monitoring Well
- Agricultural Supply Well
- Domestic Supply Well
- Other Supply Well
- Groundwater Extraction Well (Active)
- Multiple Test Well, or Inactive Extraction/Injection Well
- ▲ Inactive In Situ Reactive Zone Injection Well
- Freshwater Injection Well
- PG&E-Owned Property
- County Parcel
- Approximate Limit of Saturated Alluvium Upper Aquifer
- Approximate Location of Luskhan Fault
- Fault Trace is Inferred, and There is No Surface Expression (Stamos et al., 2001)
- Bedrock Exposed at Ground Surface

MW-177D Well ID
1.51/7
Cr(VI)/Cr(T) concentrations in µg/L, maximum of primary and duplicate samples during Second Quarter 2017 sampling.
(0.73/1.2)
Data in parentheses are from previous reporting period. See Table E-1 for sample dates.

Groundwater Cr(VI) Concentrations in Monitoring Wells:

- More than 1,000 µg/L
- 10 to 50 µg/L
- 100 to 1,000 µg/L
- 3.1 to 10 µg/L
- 50 to 100 µg/L
- Less than 3.1 µg/L or ND

ABBREVIATIONS:

µg/L Micrograms per Liter
Cr(VI) Hexavalent Chromium
Cr(T) Total Dissolved Chromium
Estimated Result
ND Not Detected

NOTES:

- Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells sampled in the Second Quarter (April through June) 2017 monitoring period. For wells sampled multiple times during the reporting period, the most recent results are shown.
- The concentration contours are based on Second Quarter 2017 chromium results for the groundwater monitoring and extraction wells that are completed in the shallow zone and deep zone of the Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells (brown colored labels) were not used for chromium plume contouring, except for those in the northern disrupted plume areas, pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015).
- Pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015), groundwater monitoring wells are not used for chromium contouring if they are located in the areas southwest of the Luskhan Fault and on or east of Highway 58. Monitoring wells sampled southeast of Luskhan Fault and east of Dose Road were sampled in support of United States Geological Survey background chromium investigations.
- Chromium plume contours in the general area south of Highway 58, were developed using a larger set of monitoring data which is presented in the July 28, 2017 Second Quarter 2017 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2017). Select wells from that program are shown here for reference.

WORK CITED:

Arcadis. 2017. Second Quarter 2017 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects, Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California, California Regional Water Quality Control Board, Lahontan Region Order No. RW-2008-0014 (Waste Discharge Requirements Identification No. 68369107001), July 28.

Stamos, C.L., Martin, T., Nishikawa, and B.F. Cox. 2001. Simulation of Ground Water Flow in the Mojave River Basin, California. U.S. Geological Survey Water-Resources Investigations Report 01-4002, Version 3. Prepared in cooperation with the Mojave Water Agency.

Water Board. 2015. Cleanup and Abatement Order No. RW-2015-0068 Requiring Pacific Gas and Electric Company to Cleanup and Abate Waste Discharges of Total and Hexavalent Chromium to the Groundwaters of the Mojave Hydrologic Unit, November 4.

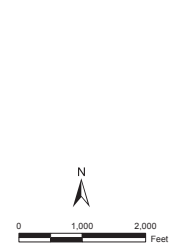


FIGURE 5-5
CHROMIUM RESULTS FOR SECOND QUARTER 2017
GROUNDWATER MONITORING AND DOMESTIC WELL
SAMPLING AND MAXIMUM COMPOSITE PLUME
OUTLINE IN UPPER AQUIFER

SECOND QUARTER 2017 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS SITE-WIDE GROUNDWATER MONITORING PROGRAM

PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA