

The 3.1/3.2-µg/L contour is shown as "-.-.-" where inferred and cannot be fully delineated by Third Quarter 2017 monitoring data.

MW-193S2  
4/3.4

MW-193S1  
4.5/4.1

MW-162S1  
(4/5)

MW-161S1  
(3.4/3.4)

MW-161S2  
3.3/2.8

MW-174S1  
3.5/3.1

MW-174S2  
(2.3/2.7)

MW-130S2  
(3.7/4.3)

MW-212S2  
3.1/2.9

MW-212S1  
3.4/3.1

MW-131S1  
(2.8/3.2)

MW-154S1  
8.2/7.7

MW-133S1  
7.6/6.7

MW-154S2  
2/2.3

MW-136S1  
3.9/3.7

MW-136S2  
ND/ND

MW-135S1  
(3.8/4)

MW-135S2  
2.9/3.4

MW-200S1  
1.1/1.2

MW-137S3  
3.2/3.3

MW-137S2  
4.6/4.7

MW-137S1  
4.7/5

MW-139S1  
(4/4)

MW-140S3  
(3.5/3.3)

MW-141S3  
(4.8/4.7)

MW-175S2  
(3/3.5)

MW-175D  
(2.7/2.8)

MW-175S1  
(3.1/3.3)

MW-204S1  
3.3/2.9

MW-204S2  
3.5/3.4

MW-173S1  
4/3.8

MW-142S2  
3/2.8

MW-142S1  
(4/4.1)

MW-113S2  
(2.9/2.7)

MW-113S1  
(2.9/2.9)

MW-115S2  
(2.3/2.6)

MW-115S1  
(2.2/2.3)

MW-157S  
(1.7/2.4)

MW-156S  
(0.73/1.3)

MW-123S1  
2/2

MW-124S1  
(2.7/2.7)

MW-125S2  
(1.5/1.6)

MW-125S1  
(2.2/2.4)

MW-172S1  
3/2.9

MW-172S2  
(0.73/1.2)

MW-171D1  
(ND/ND)

MW-171S  
(2.3/2.8)

MW-126S1  
(2.5/2.5)

MW-126S2  
(1.5/1.6)

MW-83D  
1.8/1.8

MW-83S  
1.8/2.3

MW-170S

22-65  
ND/ND

22-60  
0.57/ND

22-93  
2.7/2.0

22-21  
2.0/1.8

22-82  
1.3/1.2

22-80  
ND/ND

22-81  
0.64/ND

22-73  
2.0/1.6

22-74  
1.8/1.7

23-30  
3.4/4.2

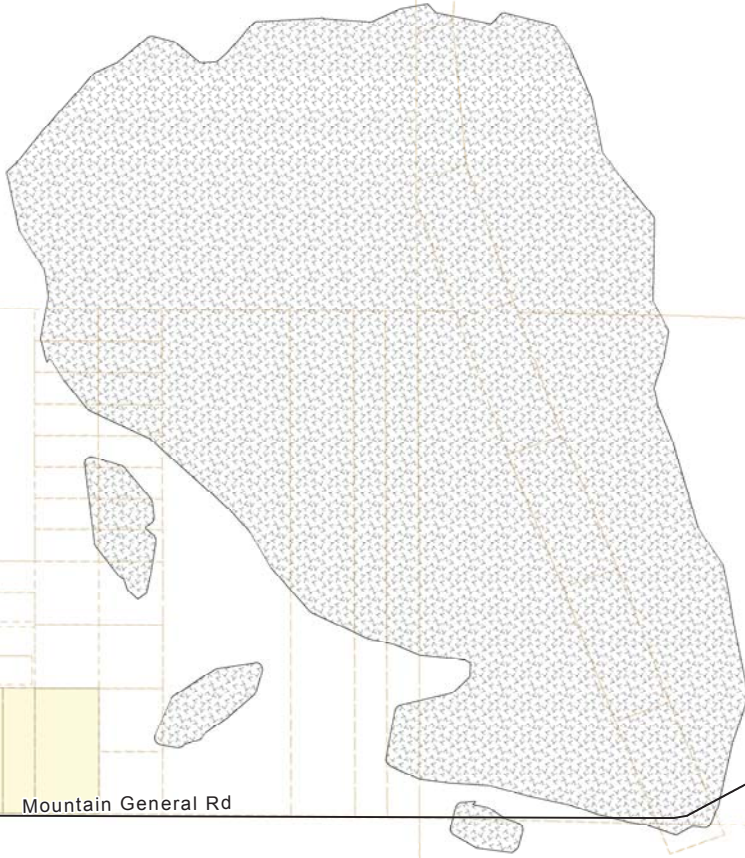
MW-89D  
0.77/ND

MW-89S  
2.3/2.8

Mountain General Rd

Burnt Tree Rd

Coon Canyon Rd



MW-166S2  
(ND/ND)

MW-166S1  
(ND/ND)

MW-197S2  
(ND/ND)

MW-197S1  
1.1/ND

Northern Disputed Plume Area

MW-138S1  
(5/5.1)

MW-219S1  
2.6/3.1

MW-219S2  
0.92/1.1

Mountain General Rd

MW-104D  
ND/ND

MW-106D  
ND/ND

MW-106S  
3/2.8

Coon Canyon Rd

MW-105D  
ND/ND

MW-105S  
2.8/3.1

Coon Canyon Rd

Thompson Rd

SEE NOTE 3

MW-128S3  
1.7/1.7

MW-128S2  
3.1/2.8

MW-128S1  
6.2/5.5

MW-107S  
(2.6/2.8)

MW-84D  
0.3/ND

MW-94S  
(6.3/6.3)

MW-94S  
3.1/2.9

MW-94D  
3.1/2.9

MW-97S  
7.3/8.7

EX-32  
0.38/ND

MW-85D  
ND/ND

MW-85S  
1.5/1.9

MW-84S  
1.7/1.6

G-1R  
(1.3/1.2)

MW-79S  
8.2/6.6

MW-79D  
ND/ND

MW-80S  
3.7/4

MW-70D  
1.1/1.8

EX-35  
(1.8/1.8)

MW-71D  
0.27/ND

MW-71S  
0.95/1.3

EX-31  
6.2/5.3

MW-72S  
4.8/5.2

MW-70S  
1.3/2

G-2R  
(1.5/1.4)

MW-68S  
1.9/2.5

EX-33  
3.9/3.4

MW-68D  
2.9/3.1

MW-55S

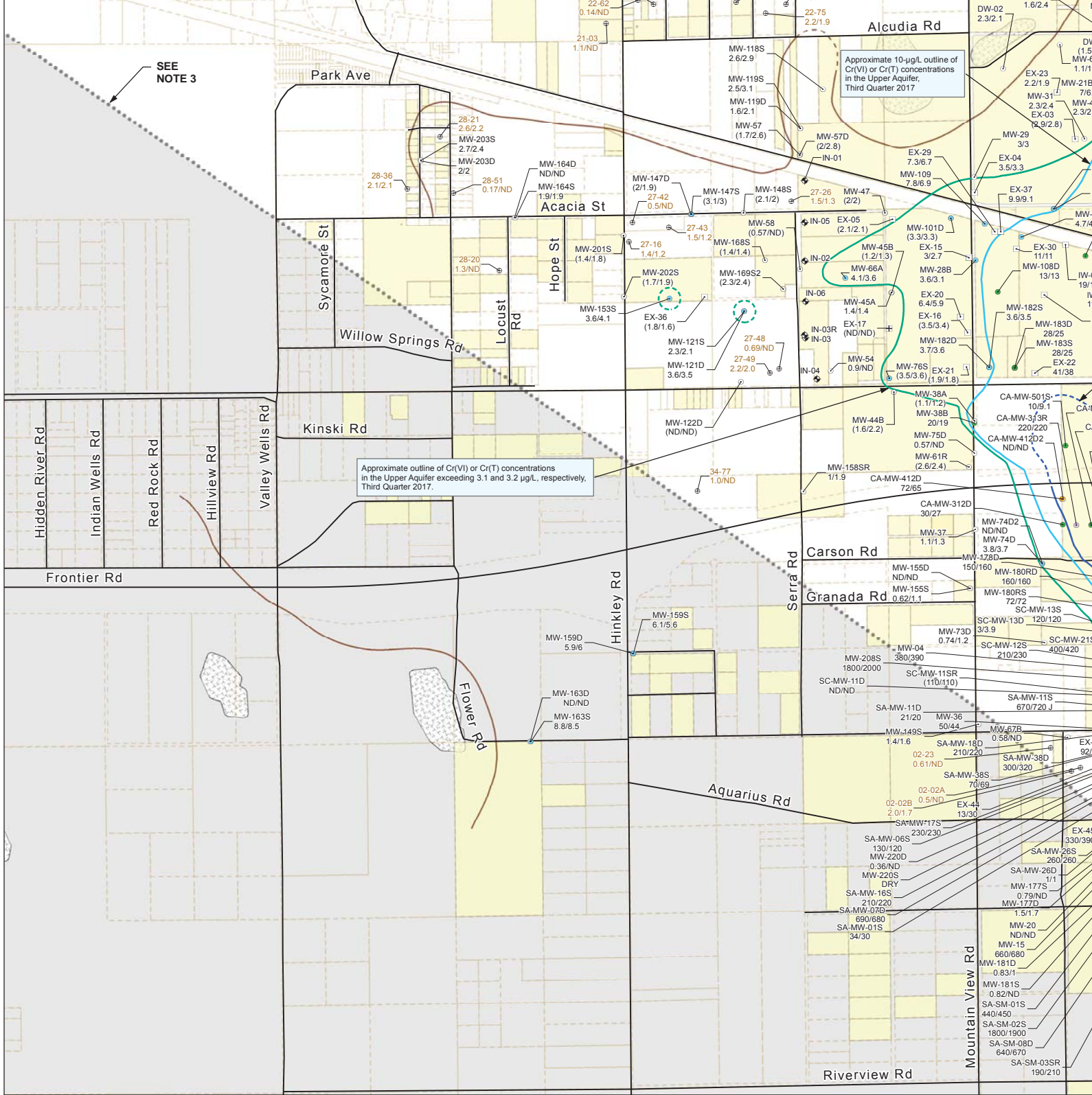
MW-69S  
(0.67/1.2)

MW-69D  
(1.7/2.4)

Approximate 50-µg/L outline of Cr(VI) or Cr(T)

30E-01  
1.7/1.4

BGS-48  
ND/ND



**LEGEND:**

- Monitoring Well
- ⊕ Domestic Supply Well (active and inactive)
- Other Supply Well
- Groundwater Extraction Well
- ⊕ Multi-use Test Well, or Inactive Extraction/Injection Well
- ▲ IRZ\_INJ
- ◆ Freshwater Injection Well
- PG&E-Owned Property
- PG&E Compressor Station
- County Parcel
- - - 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

MW-177D Well ID  
1.5/1.7 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Third Quarter 2017 sampling. (110/110) 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
- 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

**ABBREVIATIONS:**

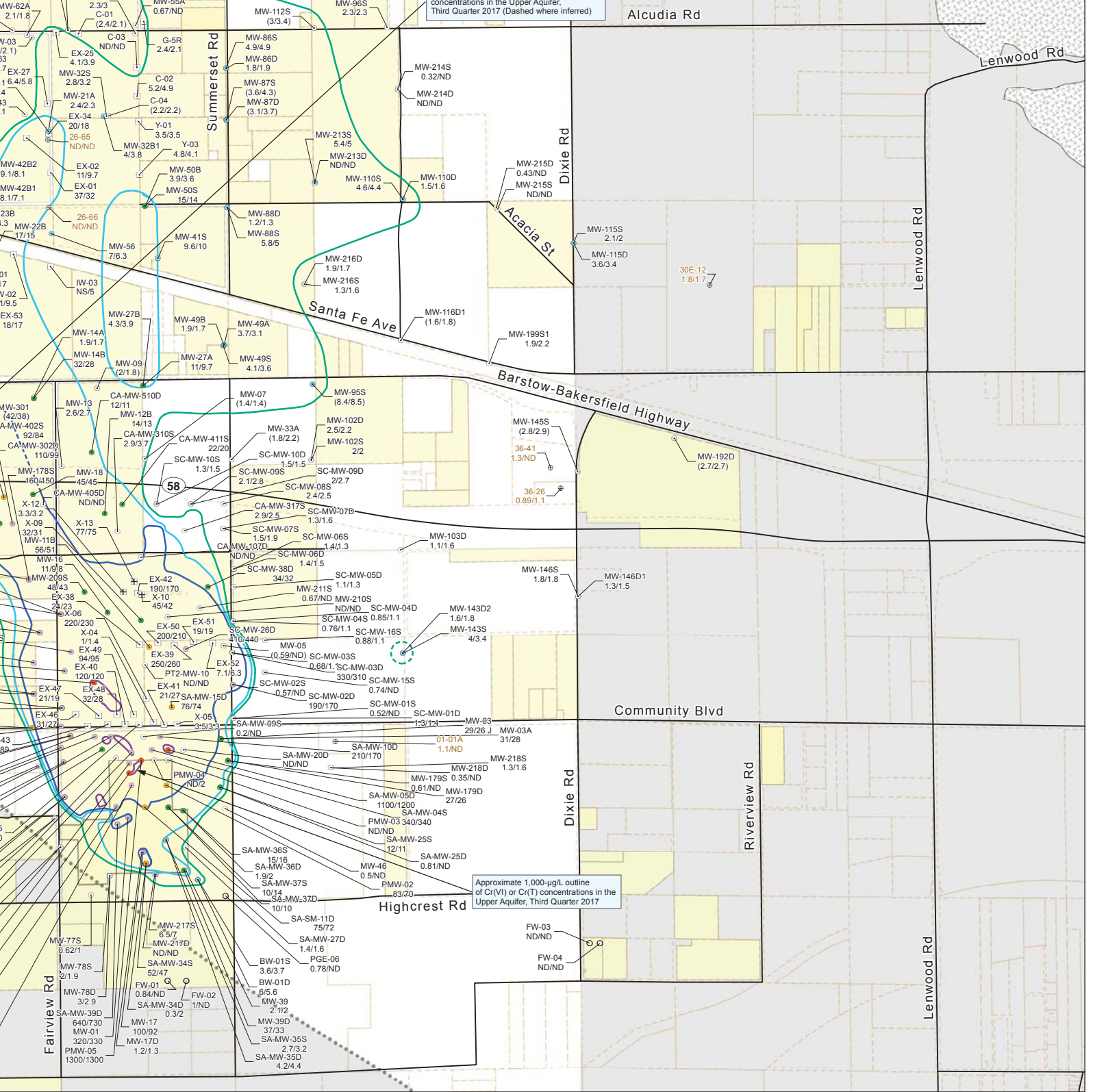
- µg/L Micrograms per Liter
- Cr(VI) Hexavalent Chromium
- Cr(T) Total Dissolved Chromium
- J Estimated Result
- ND Not Detected
- NS Not Sampled

**NOTES:**

1. Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells sampled in the reporting period, the most recent results are shown.
2. The concentration contours are based on Third Quarter 2017 chromium results for the groundwater monitoring Figures 5-1 and 5-2. Results for domestic wells (brown-colored labels) were not used for chromium plume control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015).
3. Pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015, monitoring wells sampled southwest of Lockhart Fault and on or east of Dixie Road. Monitoring wells sampled southwest of Lockhart Fault were not used for chromium plume control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015).
4. Chromium plume contours in the general area south of Highway 58, were developed using a larger set of monitoring wells in the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2017). Select wells from that set were used for this map.

**WORK CITED:**

Arcadis. 2017. Third Quarter 2017 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects. Lahontan Regional Water Quality Control Board, Lahontan Region Order No. R6V-2008-0014 (Waste Discharge Order).  
 Stamos, C.L., P. Martin, T. Nishikawa, and B.F. Cox. 2001. Simulation of Ground-Water Flow in the Mojave River Basin. Prepared in cooperation with the Mojave Water Agency.  
 Water Board. 2015. Cleanup and Abatement Order No. R6V-2015-0068 Requiring Pacific Gas and Electric Company to Remediate Chromium in Groundwater in the In Situ Reactive Zone and Northwest Freshwater Injection Projects.



the Third Quarter (July through September) 2017 monitoring period. For wells sampled multiple times during

ing and extraction wells that are completed in the shallow zone and deep zone of the Upper Aquifer as noted on contouring, except for those in the northern disputed plume areas, pursuant to the Lahonton Regional Water Quality

ember 4, 2015 (Water Board 2015), groundwater monitoring wells are not used for chromium contouring if they are located in the areas southwest and east of Dixie Road were sampled in support of United States Geological Survey background chromium investigations.

Monitoring data which is presented in the October 30, 2017 Third Quarter 2017 Monitoring Report for program are shown here for reference.

ection Projects. Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California, e Requirements Identification No. 6B369107001, October 30.

er Basin, California. U.S. Geological Survey Water-Resources Investigations Report 01-4002, Version 3.

pany 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 THIRD QUARTER 2017**  
**GROUNDWATER MONITORING AND DOMESTIC WELL**  
**SAMPLING AND MAXIMUM COMPOSITE PLUME**  
**OUTLINE IN UPPER AQUIFER**

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

PACIFIC GAS AND ELECTRIC COMPANY  
 HINKLEY COMPRESSOR STATION  
 HINKLEY, CALIFORNIA

