

The 3.1/3.2-µg/L contour is shown as "-?--" where inferred and cannot be fully delineated by Fourth Quarter 2015 monitoring data.

04N-04  
2.8/2.8

MW-174S1  
3.3/3.2

MW-174S2  
2.3/2.3

MW-174S3  
2.6/2.7

4.0/3.8

MW-193S3  
8.0/11.0

MW-162S1  
4.2/3.9

MW-162S2  
0.35/ND

MW-162S3  
0.28/ND

MW-161S1  
3.5/3.2

MW-161S2  
3.4/2.9

MW-161S3  
1.5/1.4

MW-212S1  
3.5/3.3

MW-212S2  
2.8/3.5

MW-130S1  
3.8/3.5

MW-130S2  
3.9/3.7

MW-133S1  
7.8/6.4

MW-133S2  
0.093/ND

MW-154S1  
11.0/10.0

MW-154S2  
1.8/1.9

MW-131S1  
2.4/2.5

10-04  
0.081/ND

MW-136S1  
3.6/3.7

MW-136S2  
0.077/ND

MW-137S1  
4.6/5.0

MW-137S2  
4.6/4.7

MW-137S3  
4.1/4.5

MW-200S1  
1.4/1.4

MW-200S2  
ND/ND

MW-200S3  
0.49/ND

MW-175S1  
3.2/3.4

MW-175S2  
2.7/3.2

MW-175D  
3.2/3.2

MW-204S1  
3.4/3.2

MW-204S2  
4.0/3.7

MW-204D  
0.69/ND

MW-173S1  
3.8/3.9

MW-173S2  
2.9/3.3

MW-173D  
0.75/ND

MW-142S1  
5.7/6.2

MW-142S2  
3.0/3.0

MW-142S3  
2.9/2.9

15-13  
2.6/2.4

MW-113S1  
2.7/3.1

MW-113S2  
2.8/3.3

MW-113D  
0.36/ND

MW-111S1  
2.5/2.5

MW-111S2  
2.4/2.8

MW-111D  
ND/1.1

Hinkley Rd

15-08  
1.5/1.4

15-06  
1.2/1.2

15-05  
0.9/1.4

MW-157S  
1.7/1.9

MW-156S  
1.2/1.5

MW-115S1  
2.6/2.6

MW-115S2  
0.55/0.55

MW-115S3  
1.1/1.1

Salinas Rd

22-103  
2.1/1.9

MW-172S1  
3.0/2.8

MW-172S2  
0.66/ND

MW-123S1  
2.0/2.2

MW-123S2  
1.9/2.1

MW-125S1  
2.2/2.7

MW-125S2  
1.5/1.7

MW-126S1  
2.5/2.8

MW-126S2  
1.5/1.8

Manacor Rd

22-48  
1.6/1.4

MW-171S  
2.5/2.8

MW-171D1  
0.44/ND

MW-171D2  
0.087/ND

22-108  
0.57/ND

22-39  
ND/ND

MW-83S  
1.8/4.7

MW-83D  
0.66/ND

MW-89S  
3.0/3.3

MW-89D  
0.72/ND

22-62  
1.1/1.0

22-65  
ND/ND

22-82  
1.1/1.1

22-80  
ND/ND

22-73

MW-129S  
0.89/ND

MW-170S  
1.8/1.8

DW-90

Mountain General Rd

Burnt Tree Rd

Coon Canyon Rd

02N-02  
0.17/ND

MW-166S1  
0.2/ND

MW-166S2  
0.17/ND

MW-197S1  
1.0/ND

MW-197S2  
0.14/ND

MW-197S3  
ND/ND

MW-207S1  
9.0/8.6

MW-207S2  
2.8/2.8

Northern Disputed Plume Area

MW-138S1  
5.1/4.7

MW-138S2  
4.6/4.2

MW-140S1  
7

MW-140S2  
1/3.8

MW-140S3

MW-141S1  
3.5/3.5

MW-141S2  
4.1/3.9

MW-141D  
1.3/ND

MW-104S1  
3.2/3.5

MW-104S2  
3.0/3.3

MW-104D  
0.073/ND

MW-106S  
3.0/3.3

MW-106D  
0.066/ND

SEE FOOTNOTE 2

MW-124S1  
2.9

MW-124S2  
2.1/2.2

MW-124D  
5/ND

MW-117S1  
0.77/ND

MW-117S2  
2/1.3

MW-117D  
D/ND

MW-85S  
1.8/1.8

MW-85D  
ND/ND

MW-127S1  
2.7/3.0

MW-127S2  
1.4/1.9

EX-32  
1.7/1.7

MW-206S  
1.6/1.8

G-1R  
1.7/1.6

EX-35  
3.8/3.9

G-2R  
2.0/1.9

MW-69S  
2.2/2.0

MW-69D  
1.4/2.0

FX-24

MW-68D  
3.5/3.2

MW-128S1  
6.2/6.0

MW-128S2  
3.5/3.4

MW-128S3  
1.8/1.6

MW-84S  
2.1/1.7

MW-84D  
ND/ND

MW-71S  
1.0/1.9

MW-71D  
1.9/2.0

MW-71S  
1.0/1.9

MW-71D  
1.9/2.0

MW-72S  
2.9/2.6

MW-72D  
ND/ND

EX-31  
5.5/5.2

MW-107S  
2.5/2.3

MW-107D  
1.6/ND

MW-94S  
5.9/5.7

MW-94D  
3.9/4.5

MW-97S  
4.9/4.9

MW-97D  
1.5/1.9

Coon Canyon Rd

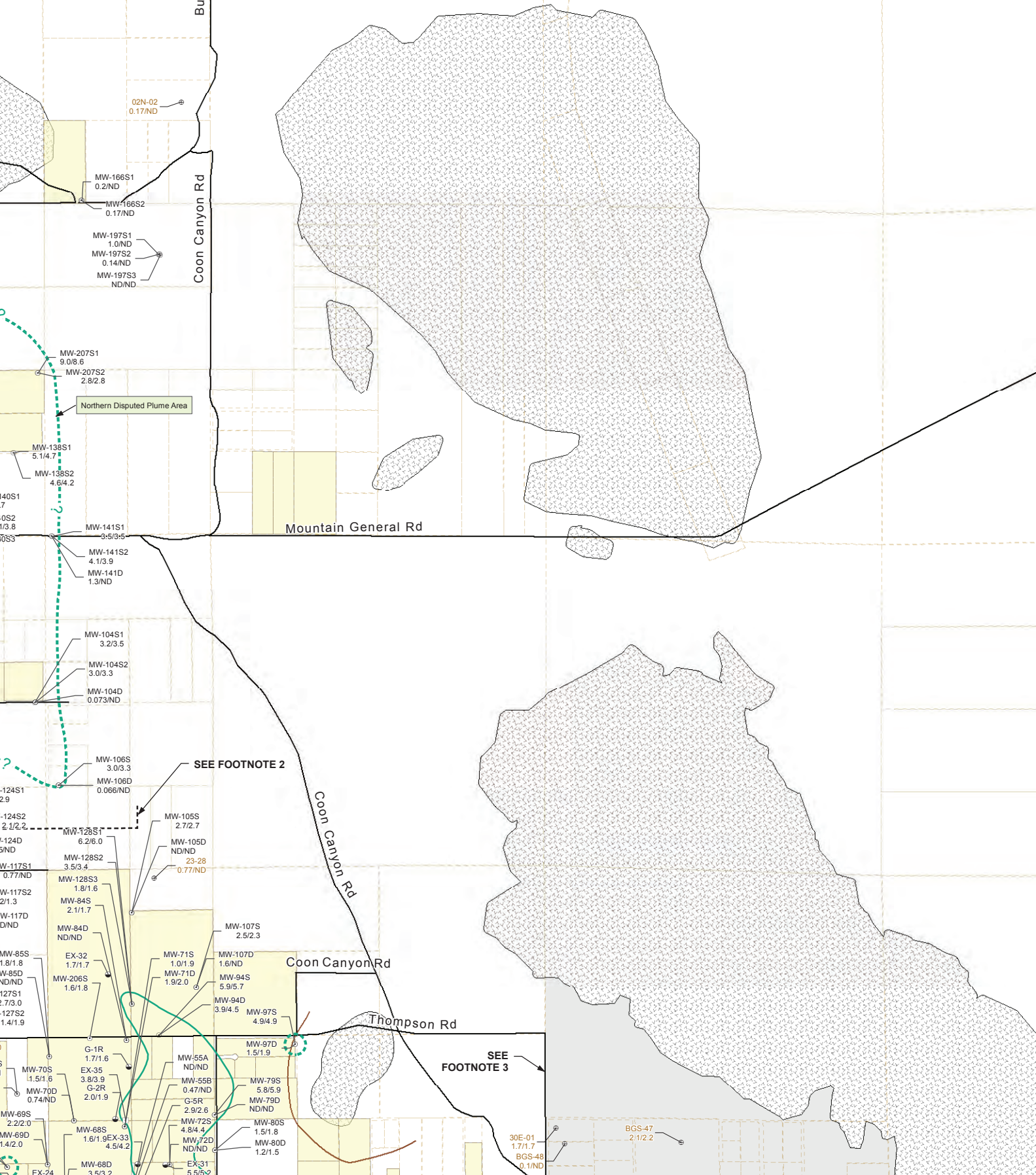
Thompson Rd

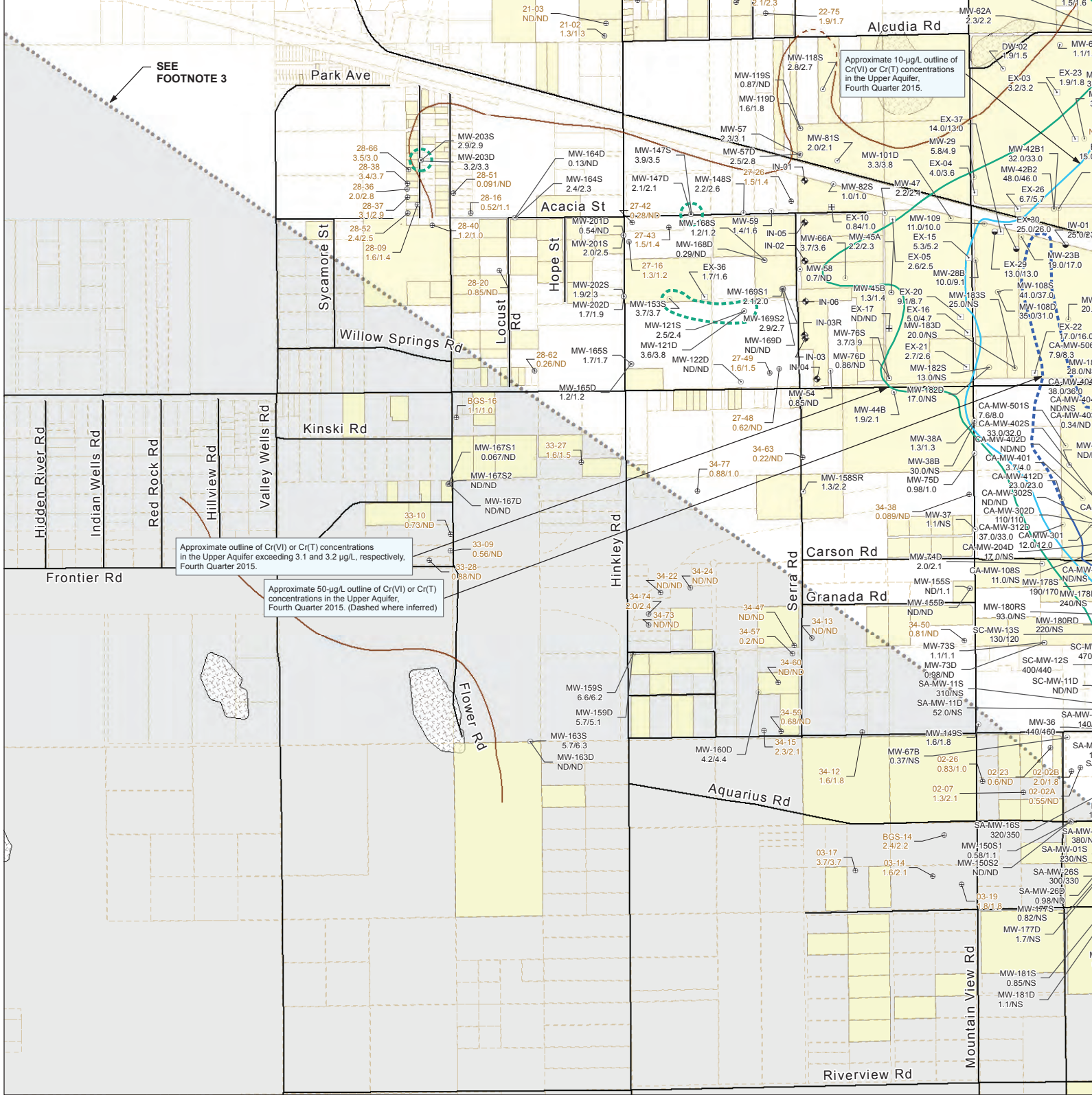
SEE FOOTNOTE 3

30E-01  
1.7/1.7

BGS-48  
0.1/ND

BGS-47  
2.1/2.2





**LEGEND:**

- Groundwater Monitoring Well
- Agricultural Supply Well
- ⊕ Domestic Supply Well
- Other Supply Well
- ⊠ Groundwater Extraction Well (Active)
- ⊞ Multiuse Test Well, or Inactive Extraction/Injection Well
- ⊕ Freshwater Injection Well
- PG&E-Owned Property
- PG&E Compressor Station
- County Parcel
- Transmission Line
- - - 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-77S Well ID  
0.88/ND Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Fourth Quarter 2015 sampling.

**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

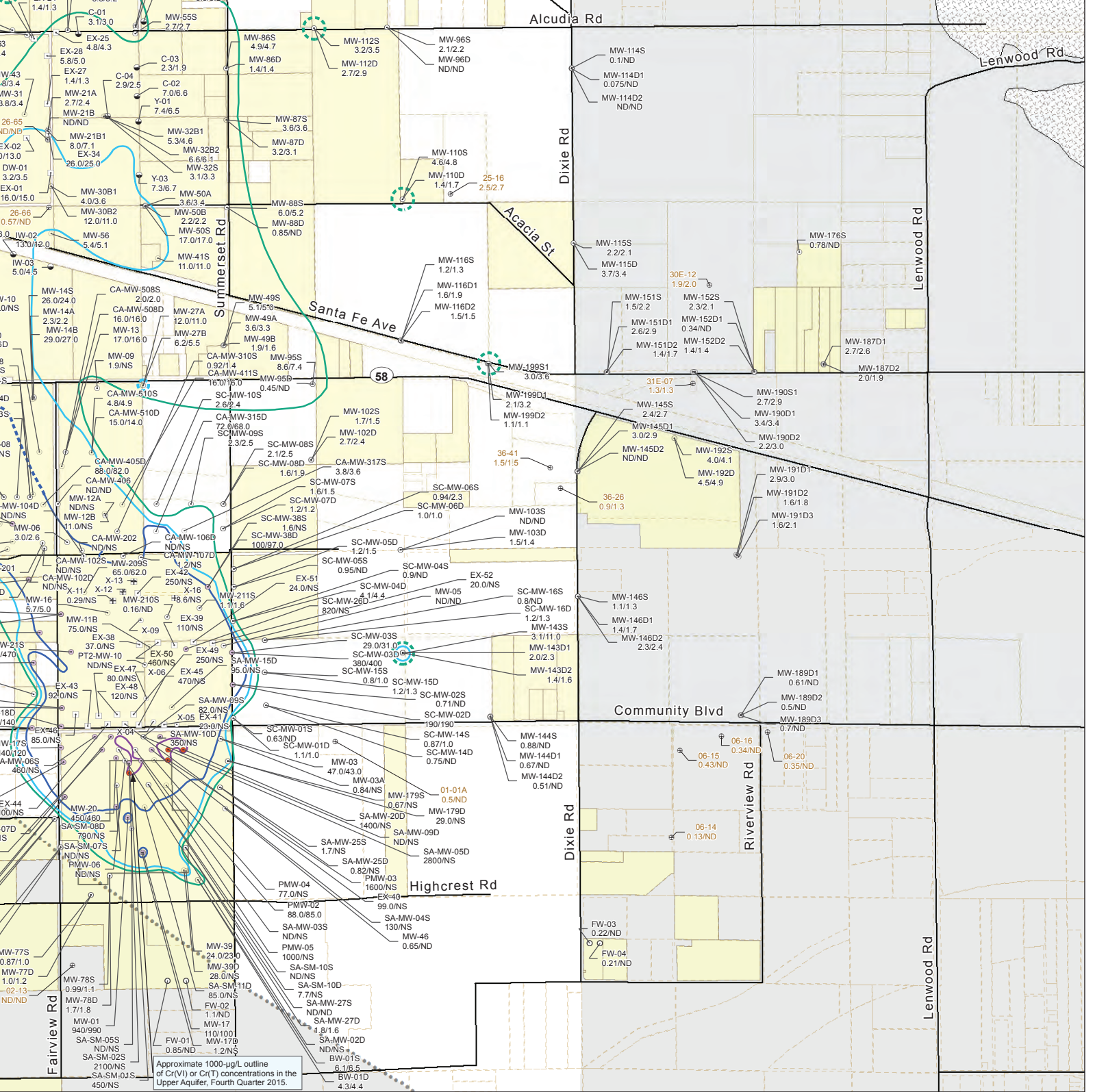
**Groundwater Cr(VI) concentrations in monitoring wells:**

- 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:**

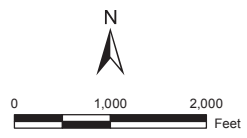
- Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells during the reporting period, the most recent results are shown.
- The concentration contours are based on Fourth Quarter 2015 chromium results for the groundwater Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells (brown-colored labels) pursuant to the Lahonton Regional Water Quality Control Board's Cleanup and Abatement Order.
- Pursuant to the Lahonton Regional Water Quality Control Board's letter Review of Chromium Plume December 12, 2013, groundwater monitoring wells are not used for chromium contouring if they are in the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2016) and represent

**WORKS CITED:**  
Stamos, C.L., P. 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.



sampled in the Fourth Quarter (October through December) 2015 monitoring period. For wells sampled multiple times during the monitoring period, the highest concentration is shown. Wells that were not used for chromium plume contouring except for those in the northern area, dated November 4, 2015.

The maps, Third Quarter 2013 Groundwater Monitoring Report and Agreement with Northern Investigation Concept dated 10/20/13, are located in the areas southwest of the Lockhart Fault and on or east of Dixie Road. The maps were developed using the more robust dataset presented in the January 15, 2016 Fourth Quarter 2015 Monitoring Report for the Hinkley Compressor Station. This map is a composite of the shallow and deep zone contours presented therein. Select wells from that program are shown here for reference.



**FIGURE 5-5**  
**CHROMIUM RESULTS FOR FOURTH QUARTER 2015**  
**GROUNDWATER MONITORING AND**  
**DOMESTIC WELL SAMPLING AND MAXIMUM**  
**COMPOSITE PLUME OUTLINE IN UPPER AQUIFER**  
 FOURTH QUARTER 2015 GROUNDWATER MONITORING  
 REPORT AND DOMESTIC WELL RESULTS  
 SITE-WIDE GROUNDWATER MONITORING PROGRAM  
 PACIFIC GAS AND ELECTRIC COMPANY  
 HINKLEY COMPRESSOR STATION  
 HINKLEY, CALIFORNIA