ARCADIS Design & Consultancy for natural and built assets

Fossil Bed Rd

Orchard Rd

MW-18453 4.7/4.7
MW-18451 1.9/2.6
Northern Disputed Plume Area

Grass Hopper

Bn Ranch Rd

Harpers Way

Hinkley Rd

MW-20551 2.6/2.8
MW-20552 4.2/3.9
MW-20553 4/3.7
MW-19651 3.7/4.3
MW-19652 2.1/2
MW-18551 4.9/5.1
MW-18552 3.9/4.3
Halsted Rd
28N-05 3.4/3.2
MW-19451 4.6/6
MW-19453 5.3/4.1
MW-18651 4.3/4.9
MW-18653 4/3.2

American Ave

Friends Rd

MW-19551 3.5/3.4
MW-19552 4.1/4.9
Northern Disputed Plume Area
MW-18851 6.9/7.1
MW-18853 4.2/6.3
Sunset Rd

Interlaken Ave

Plymouth Rd

MW-19351 4.5/4.7
MW-19353 0.97/1.4
MW-19352 3.8/3.7
MW-16251 4.2/4.1
MW-16252 ND/ND

Holstead Rd
Roy Rd
Holstead Rd
Mountain General Rd

The 3.1/3.2-µg/L contour is shown as "...?..." where inferred and cannot be fully delineated by Second Quarter 2016 monitoring data.

MW-16151 3.4/3.3
MW-16152 3.3/3.4
MW-17451 3.2/4.1
MW-17453 2.7/2.6
MW-21251 3.3/3.5
MW-21252 2.5/3
MW-13031 3.7/3.6
MW-13052 3.5/3.6

Fossil Bed Rd

Burnt Tree Rd

American Way

Burnt Tree Rd

MW-13151 2.7/3

MW-16551 0.25/ND
MW-16552 ND/ND
MW-19751 1/1.1
MW-19753 ND/ND

Coon Canyon Rd

MW-13351 1.1/0.5
MW-13352 ND/ND
MW-15451 11/9.9
MW-15452 2.1/2.1

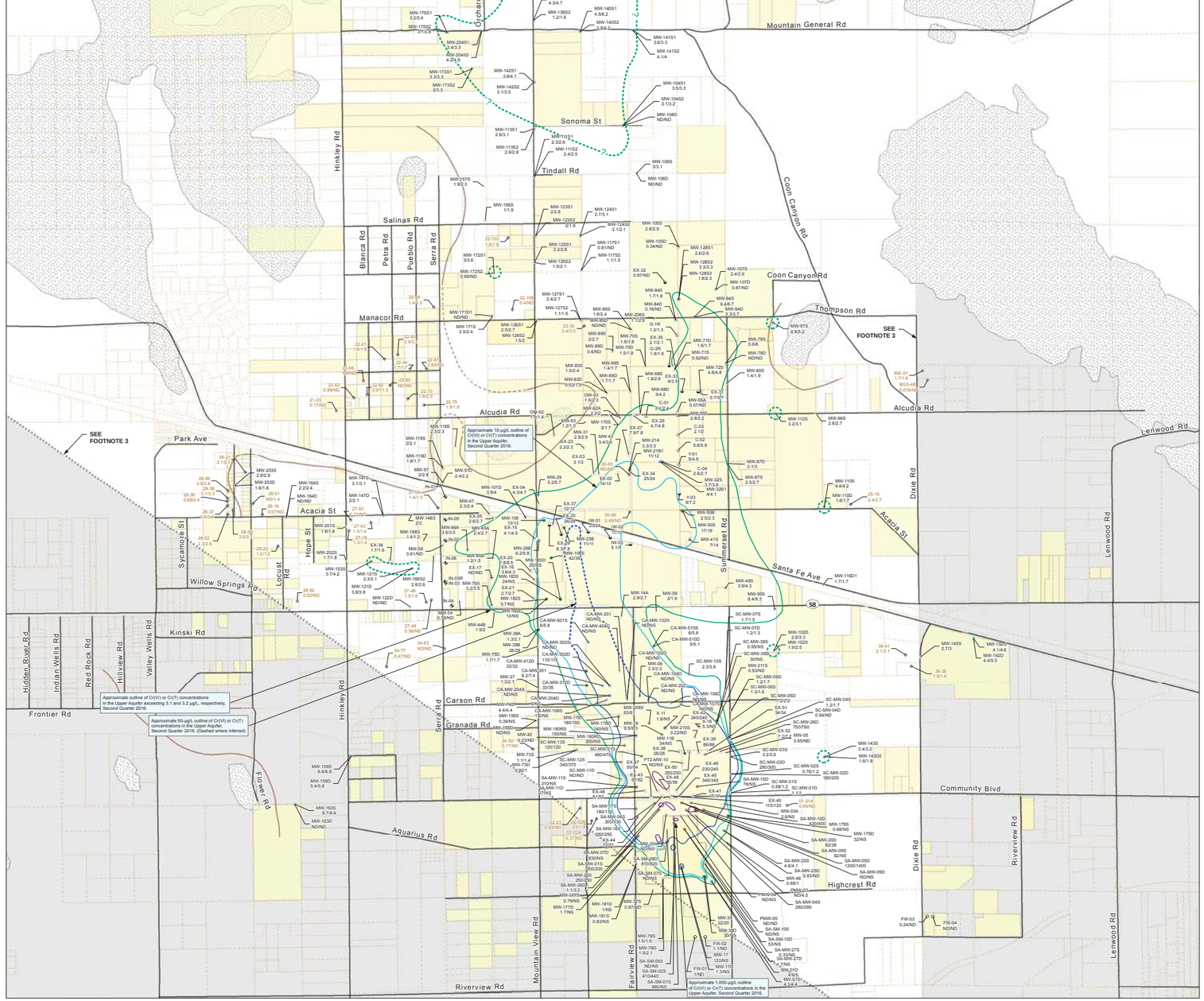
MW-13651 3.6/4
MW-13652 ND/ND
MW-20751 6.3/6.8
MW-20752 3/3.7

Mountain View Rd

MW-13551 3.8/4
MW-13552 3.1/3.9
MW-13751 4.6/5.2
MW-13752 4.7/5.4
MW-13753 3/3.1
Northern Disputed Plume Area
MW-13851 5.1/5.1
MW-13852 4.5/4.7

1st St

MW-20051 1.2/1.3
MW-20053 0.47/ND
MW-13951



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
- 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
0.88ND Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Second Quarter 2016 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:

1. Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells sampled in the Second Quarter (April through June) 2016 monitoring period. For wells sampled multiple times during the reporting period, the most recent results are shown.
2. The concentration contours are based on Second Quarter 2016 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 disputed plume areas, pursuant to the Lahonton Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015.
3. Pursuant to the Lahonton Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015, groundwater monitoring wells are not used for chromium contouring if they are located in the areas southwest of the Lockhart Fault and on or east of Dixie Road. Monitoring wells sampled southwest of Lockhart Fault and east of Dixie Road were sampled in support of United States Geological Survey background chromium investigations.
4. 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 the July 29, 2016 Second Quarter 2016 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2016). Select wells from that program are shown here for reference.

WORK 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.

N

0 1,000 2,000 Feet

FIGURE 5-5
CHROMIUM RESULTS FOR SECOND QUARTER 2016 GROUNDWATER GROUNDWATER MONITORING AND DOMESTIC WELL SAMPLING AND MAXIMUM COMPOSITE PLUME OUTLINE IN UPPER AQUIFER

SECOND QUARTER 2016 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS
SITE-WIDE GROUNDWATER MONITORING PROGRAM

PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CRITIGEN

R:\PGE\HINKLEY\2000035\MAPFILES\2016\GMPQ2\FIG5-5_PLUMEMAP_UA_2Q16.MXD 7/27/2016