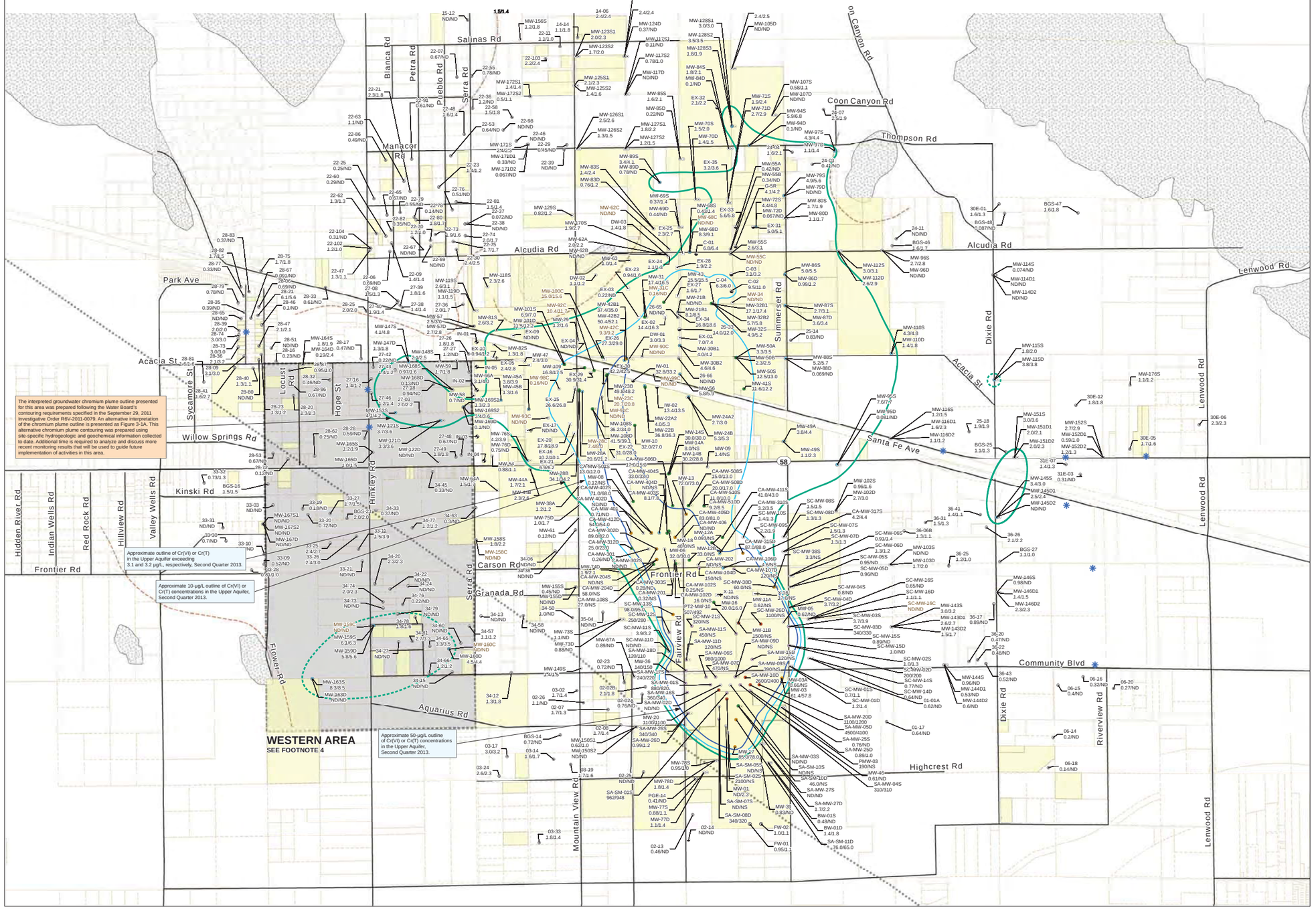

Orchard Rd
Grass Hopper
Bn Ranch Rd
Harpers Way
Hinkley Rd
Halsted Rd
28N-05
3.7/3.7
28N-04
3.2/3.2
28N-07
4.0/4.0
27N-02
3.9/3.8
27N-01
2.1/2.1
American Ave
Friends Rd
33N-02
3.7/3.4
Sunset Rd
American Ave
Plymouth Rd
33N-01
3.1/3.0
Holstead Rd
Roy Rd
Holstead Rd
MW-162S1
1.6/4.9
MW-162S2
0.54/1.3
MW-162S3
0.7/ND
MW-161S1
3.0/3.4
MW-161S2
2.4/2.7
MW-161S3
0.9/1.2
04N-04
2.3/2.6
MW-174S3
2.1/2.3
MW-174S1
3.1/3.0
MW-174S2
2.1/2.2
03N-01
3.5/3.6
03N-02
3.0/3.3
MW-130S1
3.7/3.7
MW-130S2
3.5/3.8
Fossil Bed Rd
American Way
Burnt Tree Rd
MW-131S1
2.9/3.4
10-04
0.45/1.2
Mountain General Rd
Burnt Tree Rd
MW-166S1
0.24/ND
MW-166S2
0.08/ND
MW-154S1
19.6/19.4
MW-154S2
1.6/1.8
MW-133S1
7.7/7.6
MW-133S2
0.22/ND
MW-136S1
3.2/3.6
MW-136S2
ND/ND
Coon Canyon Rd
11-12
ND/ND
MW-135S1
3.9/4.0
MW-135S2
2.0/2.4
Mountain View Rd
Orchard St
Sierra Rd
MW-137S1
4.6/5.0
MW-137S2
4.4/5.1
MW-137S3
1.6/2.0
11-10
3.9/3.5
MW-138S1
4.9/5.5
11-07
ND/ND
MW-138S2
4.3/4.8
MW-139S1
5.4/5.8
MW-139S2
0.49/ND
MW-140S1
4.4/4.6
MW-140S2
3.7/4.3
MW-140S3
3.1/3.3
MW-175S1
3.7/3.7
MW-175S2
3.1/3.0
MW-175D
2.3/2.6
15-16
0.46/5.5
Mountain General Rd
MW-142S1
6.6/7.2
MW-142S2
2.0/2.4
MW-142S3
2.8/3.0
MW-173S1
4.9/5.0
MW-173S2
3.0/2.9
MW-173D
0.84/1.0
15-15
0.89/ND
15-02
0.39/ND
MW-104S1
3.4/3.2
MW-104S2
3.0/2.9
MW-104D
ND/ND
15-13
2.6/2.5
Sonoma St
Hinkley Rd
MW-113S1
2.8/2.6
MW-113S2
3.0/2.8
MW-113D
ND/ND
MW-111S1
2.6/3.0
MW-111S2
2.3/2.5
MW-111D
ND/ND
Tindall Rd
15-08
2.5/1.3
15-06
0.07/ND
MW-157S
2.3/2.9
15-05
2.5/1.4
15-12
ND/ND
14-06
2.4/2.4
MW-156S
MW-124S1
2.1/2.4
MW-124S2
2.4/2.4
MW-106S
2.8/2.7
MW-106D
ND/ND
MW-128S1
MW-105S
2.4/2.5
Coon Canyon Rd
The 3.1/3.2-µg/L contour is shown as "- -?- -" where inferred and cannot be fully delineated by Second Quarter 2013 monitoring data. Further updates of the outline will be forthcoming as sampling results from new and future monitoring wells are incorporated.



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 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

MW-77S Well ID
0.88/1.1 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Second Quarter 2013 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) 2013 monitoring period. Second Quarter 2013 results for selected IRZ monitoring wells are shown to aid in plume mapping. For wells sampled multiple times during the reporting period, the most recent results are shown.
2. The concentration contours are based on Second Quarter 2013 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 3-2 and 3-3. Results for domestic wells and Lower Aquifer monitoring wells (brown-colored labels) were not used for chromium plume contouring.
3. Concentration contours represent the maximum extent of either Cr(VI) or Cr(T) at any depth within the Upper Aquifer based on Second Quarter 2013 chromium results. Some chromium results for wells within the 50-, 10-, and 3.1/3.2-µg/L chromium contours are less than the contoured concentrations.
4. An evaluation of available hydrogeologic and groundwater quality data for the shaded Western Area shown on this figure was included in the January 14, 2013, document titled *Conceptual Site Model for Groundwater Flow and the Occurrence of Chromium in Groundwater of the Western Area Report* (CH2MHILL and Stantec, 2013). The findings of the January 14 report indicate that groundwater in the Western Area contains naturally occurring chromium.

* Monitoring well MW-154S1 is completed in low permeability sediments across the water table. This well purges dry during sampling and is very slow to recharge. Groundwater samples from this well may not be representative of the groundwater conditions in the Upper Aquifer as sampled in other wells in this area.

N

0 1,000 2,000
Feet

FIGURE 3-1B
CHROMIUM RESULTS FOR SECOND QUARTER 2013 GROUNDWATER MONITORING AND DOMESTIC 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

CH2MHILL