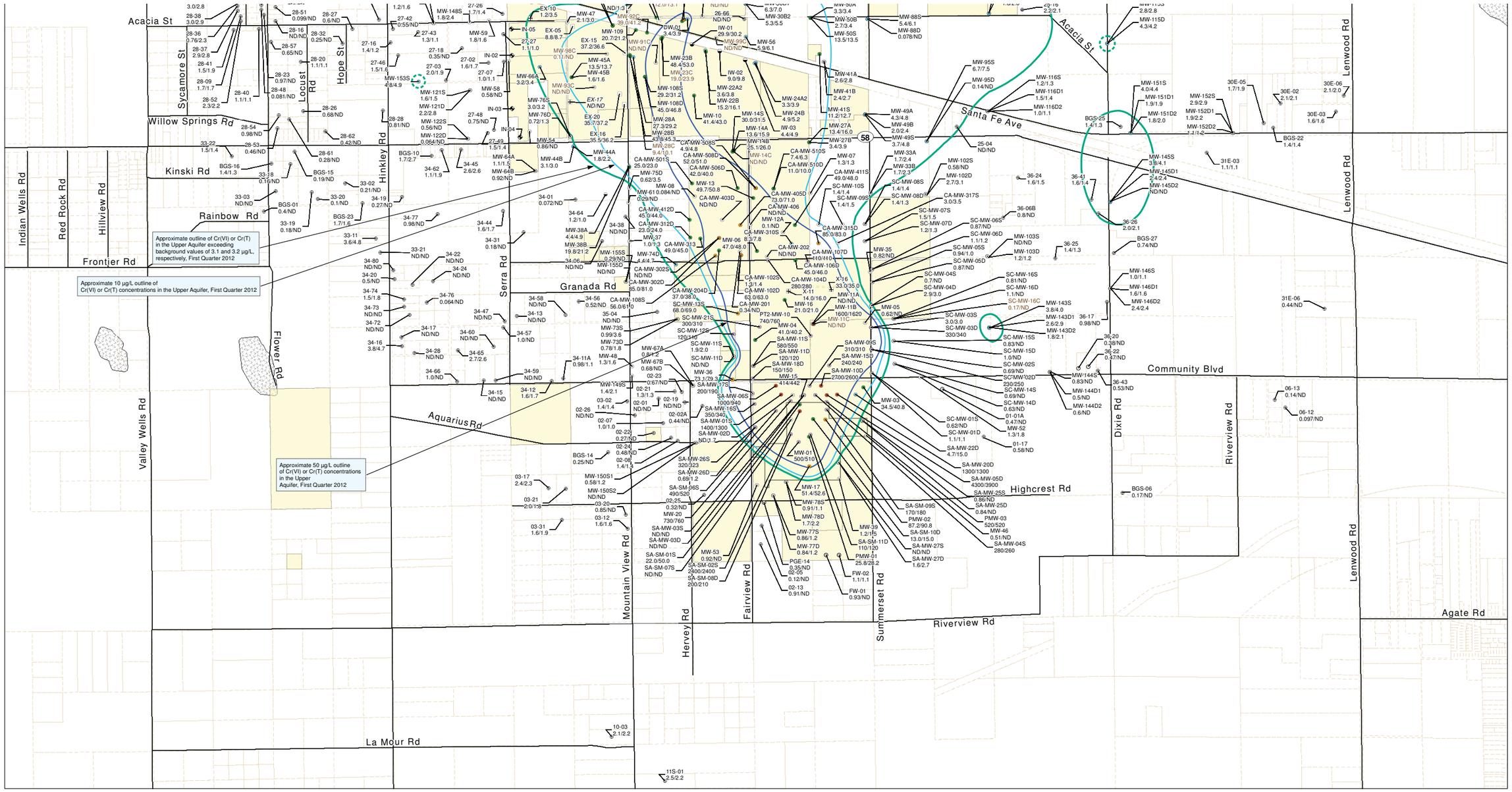
The 3.1/3.2-µg/L contour is shown as "- -?- -" where inferred and cannot be fully delineated by First Quarter 2012 monitoring data. Further updates of the plume outline will be forthcoming as sampling results from new and future monitoring wells are incorporated.

Fossil Bed Rd
American Way
Burnt Tree Rd
Orchard St
Sierra Rd
Mountain View Rd
Coon Canyon Rd
Mountain General Rd
Sonoma St
Findall Rd
Salinas Rd
Blanca Rd
Petra Rd
Pueblo Rd
Serra Rd
Manacor Rd
Alcudia Rd
Park Ave
Acacia St
Summerset Rd
Thompson Rd
Lenwood Rd
Dixie Rd

04N-03 1.3/1.4
04N-02 2.0/1.9
04N-01 0.53/ND
MW-130S1 6.2/6.1
MW-130S2 3.7/4.1
MW-131S1 2.0/2.6
02N-01 0.41/ND
MW-154S1 10.0/11.5
MW-154S2 1.5/1.6
MW-133S2 ND/ND
MW-136S1 3.2/3.1
MW-136S2 ND/ND
11-09 ND/ND
11-11 3.5/3.7
11-10 4.1/3.8
11-07 ND/ND
MW-135S1 3.9/4.0
MW-137S1 5.2/5.4
MW-137S2 3.7/3.7
MW-137S3 2.0/2.0
MW-138S1 6.4/6.8
MW-138S2 4.3/4.3
MW-139S1 11.6/11.5
MW-139S2 1.2/1.5
10 ug/L
14-13 3.0/2.9
14-05 0.67/1.4
15-16 0.41/ND
15-15 0.86/ND
MW-142S1 8.2/8.3
MW-142S2 2.4/2.5
MW-142S3 3.0/3.1
14-11 2.8/3.1
14-01 0.87/ND
14-04 2.5/3.1
14-10 3.1/3.0
MW-104S1 3.6/4.3
MW-104S2 3.0/3.2
MW-104D 0.11/ND
15-13 2.6/2.5
MW-113S1 2.8/3.1
MW-113S2 3.4/3.9
MW-113D 0.082/ND
MW-111S1 3.1/3.3
MW-111S2 1.6/1.6
MW-111D 0.12/ND
15-14 0.58/ND
MW-106S 1.9/1.8
MW-106D ND/ND
15-08 1.4/1.4
15-06 0.31/ND
15-05 1.8/1.9
15-12 ND/ND
15-03 ND/ND
14-12 2.5/2.4
14-06 2.3/2.1
14-14 1.6/1.6
MW-124S1 1.5/1.6
MW-124S2 2.7/2.6
MW-124D 0.12/ND
MW-105S 2.4/2.6
MW-105D ND/ND
23-28 0.53/ND
22-11 1.0/1.0
22-57 1.1/1.2
MW-123S1 2.1/2.3
MW-123S2 1.8/1.9
MW-117S1 0.27/ND
MW-117S2 1.2/1.2
MW-117D 0.11/ND
MW-128S1 7.8/7.8
MW-128S2 3.0/3.3
MW-128S3 1.9/2.0
22-56 0.64/ND
MW-125S1 2.0/2.5
MW-125S2 1.4/1.8
23-35 0.63/ND
MW-84S 2.3/3.0
MW-84D ND/ND
MW-107S 0.85/1.2
MW-107D 0.13/ND
MW-71S 3.5/3.9
MW-71D 1.8/2.0
MW-94S 6.7/7.0
MW-94D 1.3/1.7
24-07 2.4/2.4
MW-97S 2.1/2.8
MW-97D 1.2/1.8
22-10 2.0/1.9
22-31 0.22/ND
22-58 1.0/1.2
MW-126S1 2.6/2.8
MW-126S2 1.5/2.2
MW-127S1 1.6/2.3
MW-127S2 1.1/2.0
MW-85S 1.3/1.9
MW-85D ND/ND
MW-70S 1.2/2.6
MW-70D 0.57/ND
G-1R 3.0/3.3
MW-55A ND/ND
MW-55B 0.094/ND
G-5R 4.6/5.0
24-04 0.71/ND
24-03 2.6/2.7
22-36 1.0/1.0
22-29 0.99/ND
22-39 ND/ND
MW-89S 3.8/4.8
MW-89D 0.63/ND
23-24 2.0/1.6
EX-25 7.2/7.5
MW-83S 1.4/1.9
MW-83D ND/1.4
23-07 1.5/1.2
MW-79S 4.8/5.7
MW-79D ND/ND
MW-69S ND/1.7
MW-69D 1.2/1.7
MW-68S ND/1.2
MW-68C ND/ND
MW-68D 3.8/3.8
C-01 2.8/3.0
MW-72S 5.8/6.5
MW-72D ND/ND
MW-80S 0.32/ND
MW-80D 1.4/ND
24-10 2.6/4.8
MW-129S 0.94/1.4
MW-62C ND/ND
EX-24 ND/ND
MW-62A 3.1/3.4
MW-62B 0.082/ND
DW-03 1.5/1.9
23-27 ND/ND
23-25 1.4/1.6
MW-55C 0.26/ND
MW-55S 2.7/3.2
24-12 3.2/3.3
24-11 ND/ND
BGS-46 1.8/1.7
BGS-51 ND/ND
BGS-48 0.52/ND
30E-01 2.0/2.0
BGS-47 2.2/2.3
MW-96S 2.7/2.7
MW-96D ND/ND
MW-112S 3.3/3.5
MW-112D 2.4/2.6
MW-114S 0.093/ND
MW-114D1 ND/ND
MW-114D2 ND/ND
30E-11 ND/ND
21-02 ND/ND
22-62 1.2/1.0
22-14 1.4/1.3
22-03 1.1/ND
21-03 0.086/ND
22-82 0.1/ND
22-60 0.14/ND
22-99 0.21/ND
22-65 1.4/1.5
22-87 0.23/ND
22-86 ND/ND
22-63 0.35/ND
22-90 1.2/ND
22-47 0.55/ND
22-13 0.46/ND
28-42 1.3/ND
28-33 1.4/1.0
28-06 0.84/ND
28-21 2.9/2.8
28-67 0.14/ND
28-65 3.0/3.0
28-66 3.6/3.3
28-39 3.0/2.8
28-38 3.0/2.9
28-36 3.0/2.9
28-43 1.1/ND
28-45 0.16/ND
28-46 0.32/2.0
28-68 1.8/1.6
28-08 2.0/2.0
28-51 0.099/ND
28-16 ND/ND
28-32 0.6/ND
28-47 2.1/2.1
28-17 0.54/ND
28-27 0.6/ND
22-78 0.21/ND
22-91 0.16/ND
22-77 1.4/1.4
22-93 2.5/2.4
22-53 0.76/ND
22-48 1.5/1.4
22-35 1.7/1.6
22-97 1.1/1.0
22-59 0.98/ND
22-54 0.72/ND
22-68 0.24/ND
22-43 ND/ND
22-44 1.8/1.6
22-81 0.97/1.1
22-19 0.75/ND
22-45 0.86/1.4
22-37 ND/ND
22-80 1.9/2.0
22-38 0.63/ND
22-61 0.55/ND
22-15 0.69/ND
22-74 2.1/2.0
22-16 ND/ND
22-40 0.62/ND
22-73 1.8/1.7
22-75 1.8/1.6
22-06 0.79/ND
22-09 ND/ND
MW-118S 1.9/2.1
MW-119S 1.4/1.6
MW-119D 1.0/1.2
22-30 2.3/2.1
27-39 0.71/1.1
27-38 1.2/1.4
27-36 2.0/1.9
27-08 1.4/1.3
27-40 2.0/1.9
28-25 1.7/1.6
MW-147S 2.0/2.4
MW-147D 1.2/1.6
27-42 0.55/ND
27-43
MW-148S 1.8/2.4
MW-57 2.8/2.8
MW-57D 2.7/2.6
IN-01
27-26 1.7/1.4
EX-10 1.2/3.5
MW-59
MW-101S 15.3/15.6
MW-101D 11.3/11.5
MW-82S 1.2/1.6
EX-09 0.72/ND
MW-81S 2.6/2.9
EX-26 39.1/41.1
MW-100C 10.9/11.8
MW-29 2.2/4.0
EX-04 ND/1.3
MW-92C 39.0/41.2
MW-47 2.1/3.0
IN-05
EX-05 8.8/8.7
MW-109
EX-23 2.0/2.0
EX-03 20.2/22.6
MW-42B1 31.5/32.6
MW-42B2 54.6/53.9
MW-42C 12.0/13.1
EX-02 12.5/13.2
26-65 ND/ND
MW-90C ND/ND
26-66 ND/ND
DW-01 3.4/3.9
IW-01 29.9/30.2
MW-31 10.4/12.2
MW-31C ND/ND
MW-43 17.4/19.6
EX-27 1.6/2.0
MW-21B 8.8/9.4
MW-21C ND/ND
EX-01 12.1/14.6
MW-30B1 6.3/7.0
MW-30B2 5.3/5.5
EX-28 ND/ND
C-03 11.0/12.3
C-02 10.4/11.3
C-04 3.4/3.7
MW-34 ND/ND
MW-32B1 3.5/3.6
MW-32B2 2.7/2.7
MW-32S 3.2/3.6
MW-50A 3.3/3.4
MW-50B 2.7/3.4
MW-50S
25-14 1.3/1.3
MW-88S 5.4/6.1
MW-88D 0.078/ND
MW-86S 4.8/5.0
MW-86D 0.89/1.4
MW-87S 2.7/3.4
MW-87D 1.9/2.2
MW-110S 3.1/3.5
MW-110D 1.6/2.0
25-16 2.2/2.1
MW-115S 2.8/2.8
MW-115D 4.3/4.2



N

0 1,000 2,000
Feet

Legend

- Groundwater Monitoring Well
- Agricultural Supply Well
- Domestic Supply Well
- Other Supply Well
- Groundwater Extraction Well (active)
- Multi-use Test Well, or Inactive Extraction/Injection Well
- Freshwater Injection Well
- Step-Out Monitoring Wells Planned or Under Construction
- PG&E-Owned Property
- County Parcels
- Approximate Limit of Saturated Alluvium Upper Aquifer
- Bedrock Exposed at Ground Surface

MW-115S Well ID
2.8/2.8 Cr(VI)/Cr(T) concentrations in micrograms per liter (µg/L); maximum of primary and duplicate samples during First Quarter 2012 sampling

Cr(VI) = Hexavalent Chromium
Cr(T) = Total Dissolved Chromium
ND = Not Detected; NS = Not Sampled

Groundwater Cr(VI) Concentrations in Monitoring Wells

- > 1,000 µg/L
- 100 - 1,000 µg/L
- 50 - 100 µg/L
- 10 - 50 µg/L
- 3.1 - 10 µg/L
- < 3.1 µg/L or ND

Notes:

1. Chromium results are shown for all site-wide Groundwater Monitoring Program wells sampled in the January-March 2012 sampling period. In addition, First Quarter 2012 results for selected In situ Reactive Zone (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 chromium results from the upper aquifer groundwater monitoring wells and short-screen (<25 feet) inactive extraction wells. Agricultural supply wells C-01, C-02, C-03, and C-04 were included in contouring. Results for domestic wells, long-screen (>25 feet) extraction wells (shown in italics) and agricultural supply 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 chromium results from monitoring wells and short-screen supply wells. 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. The 3.1/3.2-µg/L Cr(VI)/Cr(T) plume outline shown in the vicinity of Dixie Rd and Burnt Tree Rd are inferred based on available data from the upper aquifer monitoring wells sampled during the First Quarter 2012.
5. The chromium results shown for domestic and other private supply wells are from sampling conducted during January-March 2012. For wells sampled multiple times during the reporting period, the most recent results are shown. See Table 3-5 for the laboratory analytical results for the domestic well sampling program.
6. The January 2012 chromium results for monitoring wells MW-73S and MW-75D were not used for First Quarter plume contouring for the following reasons: 1) the relative percent difference between January 2012 Cr(VI) and Cr(T) results is greater than 100% for both wells 2) the January 2012 Cr(T) results are inconsistent with historical Cr(T) results (see Appendix I for chromium concentration graphs). The January 2012 Cr(T) results for these wells were qualified with a J flag indicating that they are estimated. These wells will be sampled in the Second Quarter 2012 sampling event.

FIGURE 3-1
CHROMIUM RESULTS FOR FIRST QUARTER 2012 GROUNDWATER MONITORING AND DOMESTIC WELL SAMPLING AND INTERPRETED MAXIMUM PLUME OUTLINE IN UPPER AQUIFER
FIRST QUARTER 2012 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS
SITE-WIDE GROUNDWATER MONITORING PROGRAM
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CH2MHILL