



**Pacific Gas and
Electric
Company**

Kevin M. Sullivan
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Project

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March 15, 2013

Ms. Lauri Kemper, Assistant Executive Officer
Ms. Lisa Dernbach, Senior Engineering Geologist
Planning and Toxics Division
California Regional Water Quality Control Board, Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Subject: Addendum to Work Plan to Address Provision I.A. of Cleanup and Abatement
Order No. R6V-2008-0002-A4, Pacific Gas and Electric Company's Hinkley
Compressor Station, Hinkley, California

Dear Ms. Kemper and Ms. Dernbach:

Pacific Gas and Electric Company (PG&E) is pleased to submit to the California Regional Water Quality Control Board, Lahontan Region (Water Board) this Addendum (Addendum) to PG&E's Work Plan to Address Provision I.A. of Cleanup and Abatement Order No. R6V-2008-0002-A4 (Work Plan). The Work Plan was submitted to the Water Board on February 22, 2013 in response to the referenced Cleanup and Abatement Order (CAO). This Addendum is consistent with discussions between Water Board staff and PG&E regarding the Work Plan during a meeting in the Water Board's South Lake Tahoe office on March 7, 2013.

Proposed Monitoring Wells

Enclosed are updated figures illustrating the locations of monitoring wells proposed for the area north of Red Hill (Figure 7) and east of Dixie Road (Figure 9). Figure 7 replaces Figures 7A and 7B from the Work Plan, which included two options for consideration. Figure 7 now presents for consideration eleven monitoring well locations, consistent with our discussions in South Lake Tahoe, and includes the requested illustration of domestic wells in this area containing hexavalent chromium (Cr[6]) and total dissolved chromium (Cr[T]) above 3.1 and 3.2 micrograms per liter (ug/L), respectively. Figure 9 has been amended to include one additional monitoring well location (EB-5) along Community Blvd. near Riverview. Based on discussions with Caltrans staff and Water Board staff at the Water Board's March 14th public meeting in Hinkley, slight further adjustments to some well locations may be advisable to avoid the future realignment of Highway 58 through this area.

Monthly Sampling of Domestic Wells

The CAO requires monthly sampling of active domestic wells in specified areas for six (6) continuous months starting in March 2013. The objectives stated in the CAO for this monthly sampling requirement are, in general, to observe trends in these wells and to determine if additional monitoring wells are needed in these areas. The CAO states that additional wells may be required if a domestic well indicates an increasing statistical trend during the six months of sampling, and if a monitoring well is not already

March 15, 2013

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present within ¼ mile of the domestic well(s). The Work Plan states: *“PG&E plans to discuss with Water Board staff whether or not a domestic well needs to be sampled if it is already located within ¼ mile from an existing monitoring well and/or a new monitoring well location proposed in this Work Plan.”*

PG&E discussed with Water Board staff on March 7th that the locations of existing or proposed monitoring wells obviate the stated need for monthly domestic well sampling. Consistent with those discussions, enclosed please find amended Figures 2 and 3 for the Work Plan. The figures have been amended to illustrate ¼ mile radii around existing and proposed monitoring wells. As shown on Figure 2, there are no active domestic wells in the northern area that are not already within ¼ mile of an existing or proposed monitoring well. As shown on Figure 3, there are five (5) active domestic wells in the eastern area that are not precisely within the ¼ radii of an existing monitoring well, but are just outside a ¼ mi radius. As depicted on Figure 3, the geometry of these wells is such that a robust monitoring well network exists in the area. Therefore, monthly sampling of these domestic wells to provide guidance for future monitoring well locations is unlikely to improve the monitoring well network in this area. These domestic wells are also currently within the Whole House Water program area, to address the water supply needs of these residents. PG&E has been collecting, and will continue to collect, groundwater samples from domestic supply wells that are actively used by residents.

Also, as discussed with RWQCB staff and Caltrans on March 14th, several of these domestic wells will also be potentially removed by the future realignment of Highway 58. We also understand that the RWQCB may still be receiving input from the community on this work scope; we look forward to finalizing this map and plan based on RWQCB’s review, and Caltrans and community input.

As you know, PG&E submitted a petition and request for stay of the CAO. PG&E will proceed with that request and hopes for consideration by the State Water Resources Board in the near future. In the meantime PG&E intends to comply with the CAO as described in the Work Plan and as discussed with Water Board staff on March 7th. This Addendum is based on PG&E’s understanding of responses to proposals discussed with the Water Board on March 7th, and does deviate from certain requirements of the CAO. PG&E requests immediate notification from the Water Board Executive Officer if this Work Plan and Addendum incorrectly captures the essence of those discussions, so we can update our Work Plan accordingly and implement a sampling program consistent with the CAO requirements.

Please feel free to call me if you have any questions regarding the information presented in this Addendum.

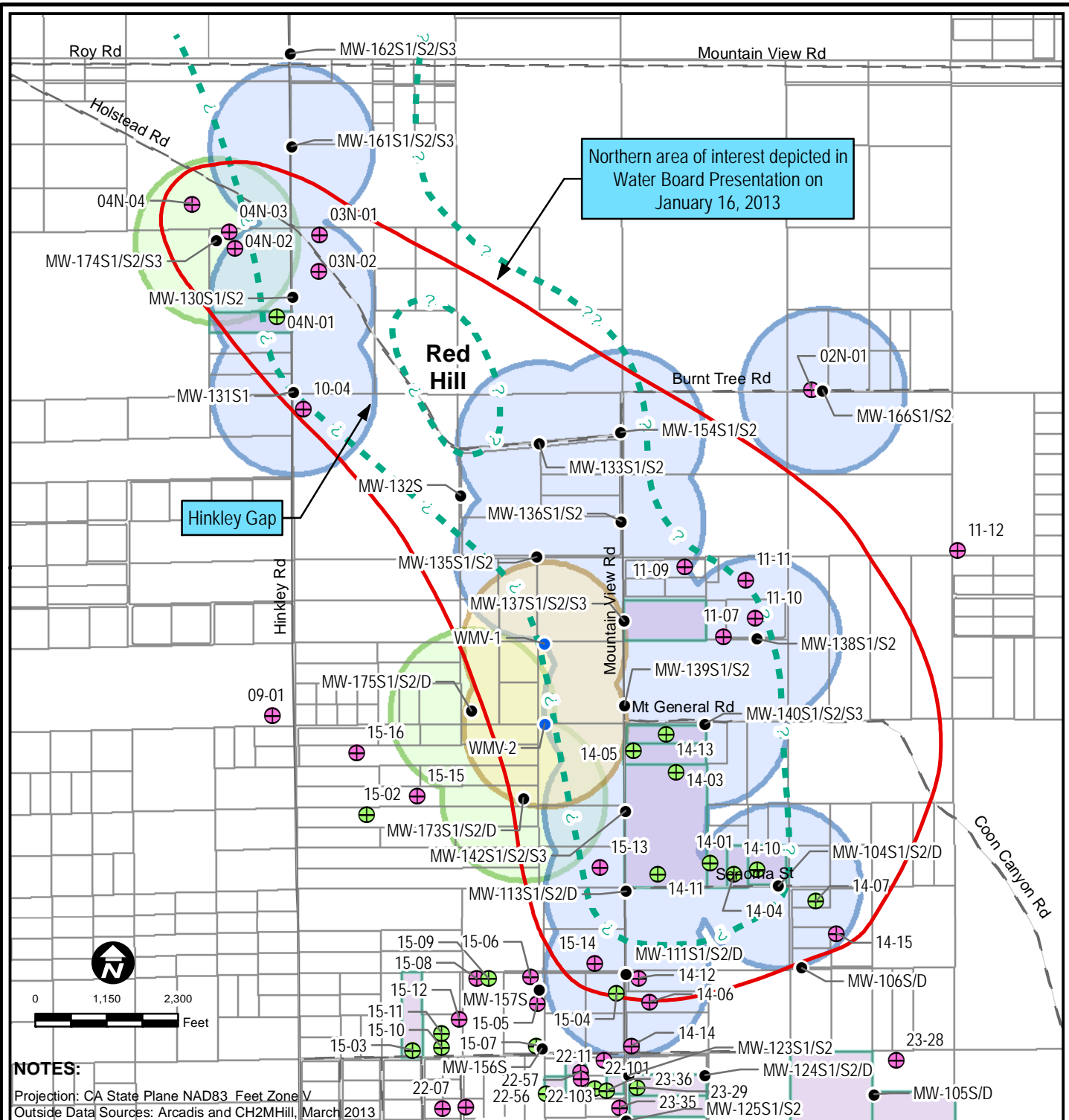
Sincerely,



Kevin Sullivan
Hinkley Remediation Project Manager, Shared Services

Enclosure

V:\1857\PG&E\MXD_Files\1st Half 2013\Radius Circles\Figure 2 (Work Plan North) (2013-3-11)8x11.mxd



NOTES:

Projection: CA State Plane NAD83 Feet Zone V
 Outside Data Sources: Arcadis and CH2MHill, March 2013

Wells By Well Type

- Monitoring Well
- ⊕ Active Domestic Supply Well
- ⊕ Inactive Domestic Supply Well

- Existing Monitoring Well
- Newly Installed Monitoring Well
- Monitoring Well Proposed in February 22, 2013 Work Plan

■ PGE Property Boundaries (02/22/13)

Chromium Plume (Fourth Quarter 2012)

Concentration of Hexavalent Chromium (ug/l)

3.1 ug/l

Circles Represent a Radius of 1/4-Mile Around Monitoring Wells



Stantec

57 LAFAYETTE CIRCLE, 2ND FLOOR
 LAFAYETTE, CALIFORNIA

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FOR:
**Pacific Gas & Electric
 Groundwater Remediation Project
 Hinkley, California**

**DOMESTIC WELLS IN
 NORTHERN AREA**

2

JOB NUMBER:
 185702580

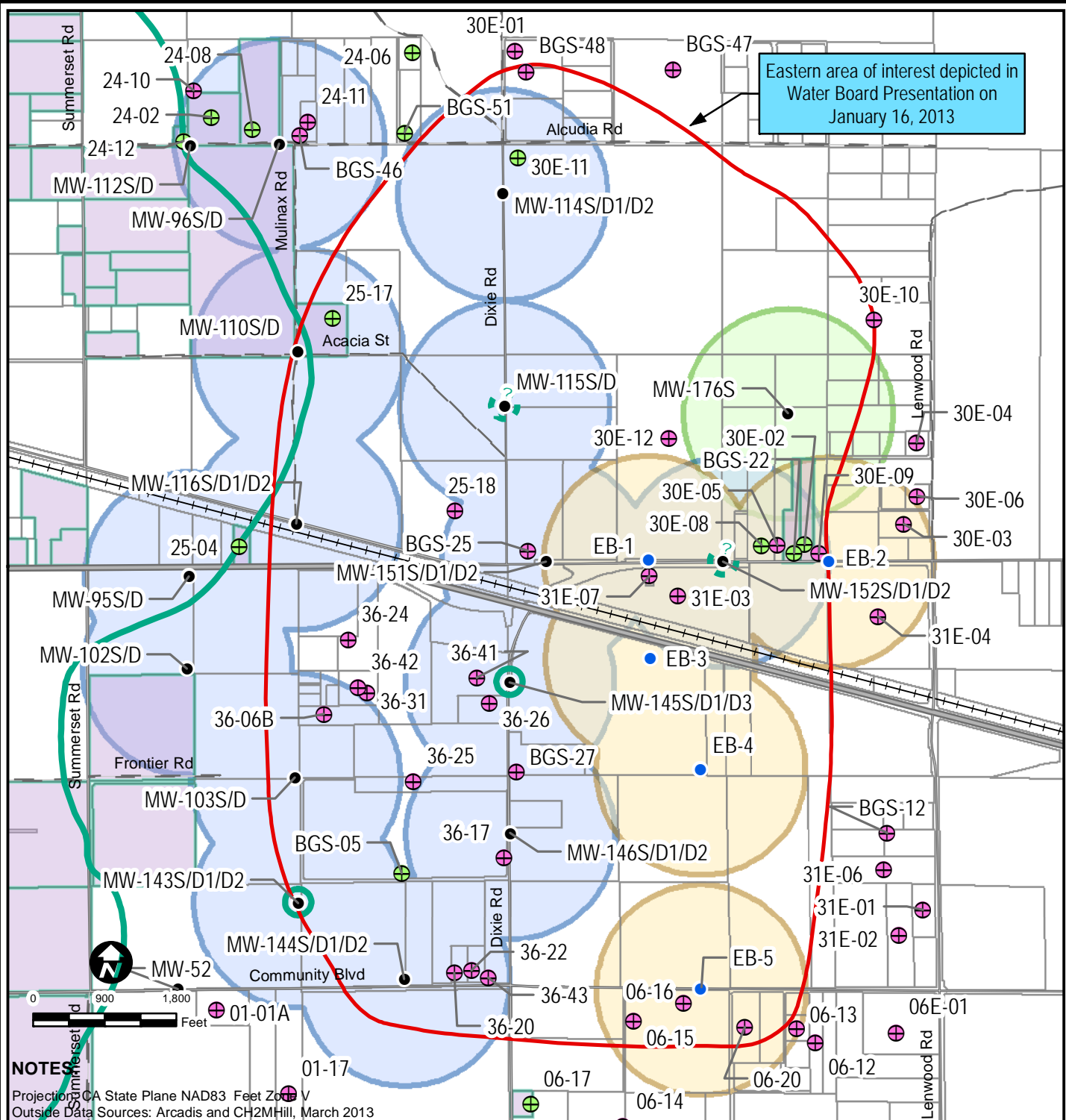
DRAWN BY:
 TF

CHECKED BY:
 BD

APPROVED BY:
 CM

DATE:
 02/19/13

V:\1857\PG&E\MXD_Files\1st Half 2013\Radius Circles\Figure 3-1 (Work Plan East).mxd (2013-3-17) 8x11.mxd

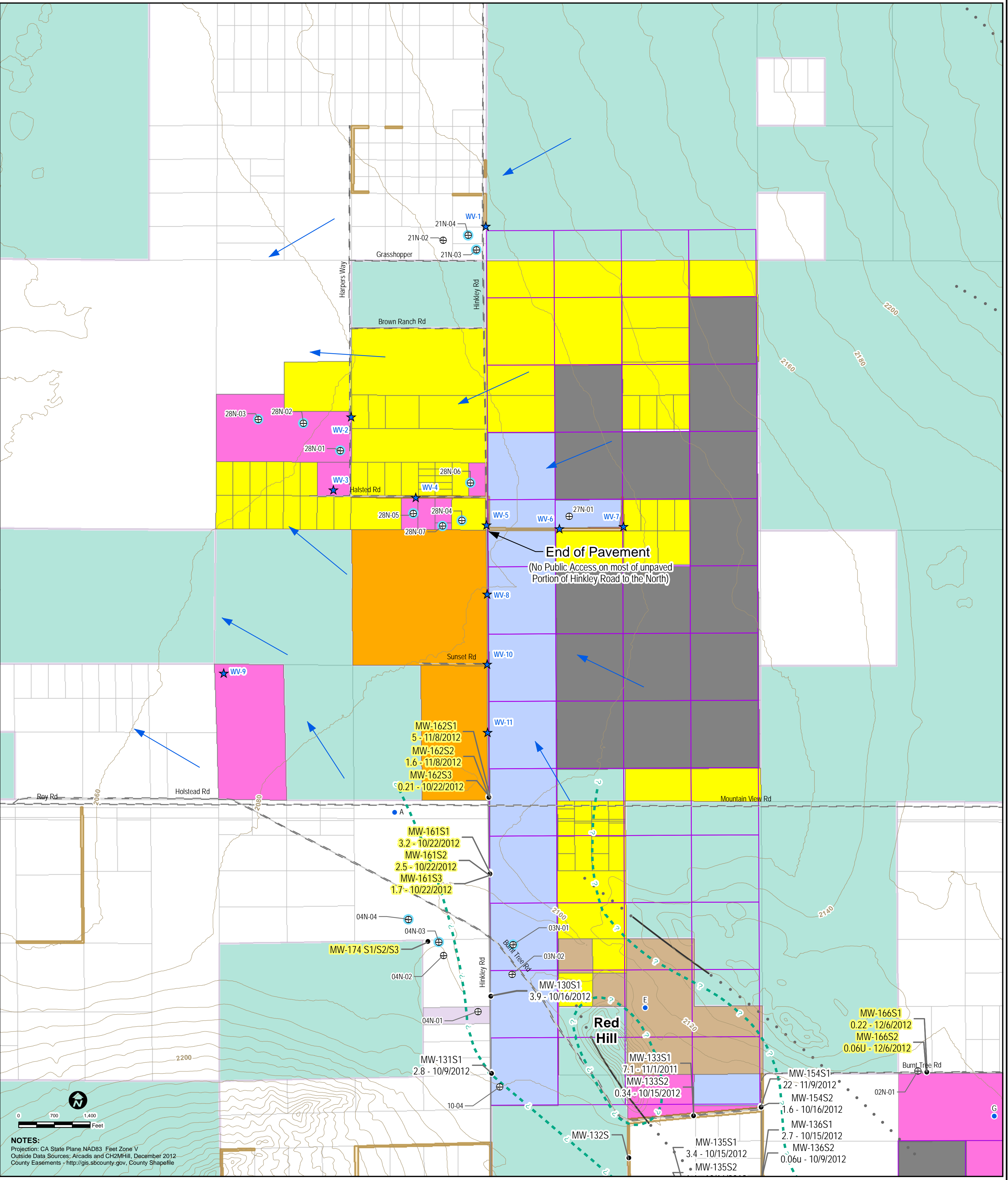


NOTES
 Projection: CA State Plane NAD83 Feet Zone V
 Outside Data Sources: Arcadis and CH2M Hill, March 2013

Wells By Well Type	Existing Monitoring Well	PGE Property Boundaries (02/22/13)
Monitoring Well	Newly Installed Monitoring Well	Chromium Plume (Fourth Quarter 2012) Concentration of Hexavalent Chromium (ug/l)
Active Domestic Supply Well	Monitoring Well Proposed in February 22, 2013 Work Plan	3.1 ug/l
Inactive Domestic Supply Well	Circles Represent a Radius of 1/4-Mile Around Monitoring Wells	

 Stantec 57 LAFAYETTE CIRCLE, 2ND FLOOR LAFAYETTE, CALIFORNIA PHONE: (925) 299-9300 FAX: (925) 299-9302	FOR: Pacific Gas & Electric Groundwater Remediation Project Hinkley, California		DOMESTIC WELLS IN EASTERN AREA		FIGURE: 3
	JOB NUMBER: 185702580	DRAWN BY: TF	CHECKED BY: BD	APPROVED BY: CM	DATE: 02/19/13

V:\1834\CH2M\CH2M\GIS\1834\1834_031113\1834_031113_031113.mxd



Wells by Well Type

- Monitoring Well
- ⊕ Domestic Supply Well

Preliminary Assessment of Parcel Access for Well Installation (See Figure 5 for Access Process)

- Orange: Owner not likely to Permit Access
- Yellow: Owner has not been Contacted
- Brown: Owner Contact Unsuccessful
- Grey: Infeasible Based on Preliminary Biological Assessment (Aerial or Drive-by)
- Pink: Owner may Potentially Permit Access
- Blue: Easement or Paved Road is Present Adjacent to the Parcel
- Dark Blue: Access Agreement in Place

Status of Installation for Previously Proposed Monitoring Wells

- Upper Aquifer Monitoring Wells not yet Installed due to Access Limitations. Wells were Proposed in PG&E's Work Plan for Installation of Upper Aquifer Monitoring Wells North and East of Red Hill (Stantec, July 2012)
- Upper Aquifer Monitoring Wells Recently Installed and Sampled as Proposed in PG&E's Work Plan for Installation of Upper Aquifer Monitoring Wells North and East of Red Hill (Stantec, July 2012); MW-174 to be sampled initially in 1Q13
- ★ Proposed Locations for new Upper Aquifer Monitoring Wells in Response to CAO No R6V-2008-0002-A4

PGE & Public Property Ownership

- Grey: PGE Property Boundaries (02/04/13)
- Orange: County Easement
- Green: Federal Land

Chromium Data

Chromium Plume (Fourth Quarter 2012)
Concentration of Hexavalent Chromium (ug/l)

3.1 ug/l

Groundwater Flow

- Blue Arrow: Anticipated Groundwater Flow Direction based upon Site Topography

Other Features

- White Box: 1/4 mile x 1/4 mile well spacing (Specified by CAO No R6V-2008-0002-A4)
- Black Line: Geologic Fault
- Dashed Line: Dashed Where Indefinite
- Dotted Line: Dotted Where Concealed

Notes:

- Well ID
- Cr6 - Date Sampled
- ⊕ Domestic Wells with Recent (2011-2012) Cr6 >3.1 ppb and/or CrT >3.2 ppb

FOR: Pacific Gas & Electric
Groundwater Remediation Project
Hinkley, California

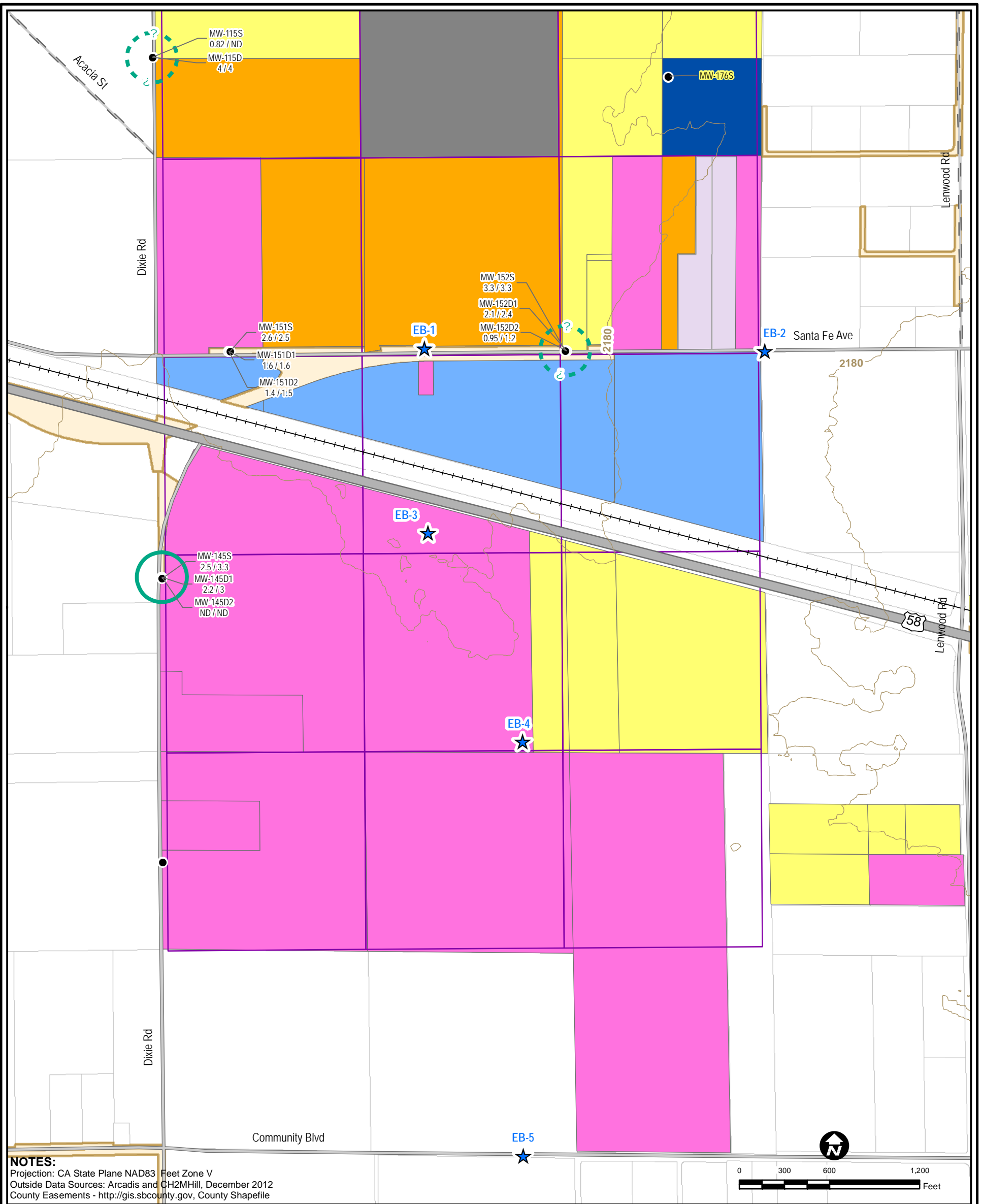
INVESTIGATION AREA 1 - WATER VALLEY

FIGURE: 7

Stantec
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JOB NUMBER: 185702580 **DRAWN BY:** TF **CHECKED BY:** CM **APPROVED BY:** CM **DATE:** 03/11/13

VA1567NPG&EMXD_Files1st Half 2013Water Valley Work Plan\Figure 9 (Eastern Boundary) (2013-1-3)11x17.mxd



NOTES:
 Projection: CA State Plane NAD83 Feet Zone V
 Outside Data Sources: Arcadis and CH2MHill, December 2012
 County Easements - <http://gis.sbcounty.gov>, County Shapefile

Wells by Well Type

- Monitoring Well

PGE & Public Property Ownership

- PGE Property Boundaries (02/04/13)
- County Easement

Other Features

- 1/4 mile x 1/4 mile well spacing (Specified by CAO No R6V-2008-0002-A4)

Chromium Data

Chromium Plume (Fourth Quarter 2012)
 Concentration of Hexavalent Chromium (ug/l)

Note: 3.1 ug/l
 Well ID
 Cr6 / CrT

Preliminary Assessment of Parcel Access for Well Installation (See Figure 5 for Access Process)

- Owner not likely to Permit Access
- Owner has not been Contacted
- Owner Contact Unsuccessful
- Infeasible Based on Preliminary Biological Assessment (Aerial or Drive-by)
- Owner may Potentially Permit Access
- Easement or Paved Road is Present Adjacent to the Parcel
- Access Agreement in Place

Status of Installation for Previously Proposed Monitoring Wells

- MW-176 Upper Aquifer Monitoring Wells Recently Installed and Sampled as Proposed in PG&E's Technical Report - Response to Investigation Order R6V-2011-0043 Delineation of Chromium in the Upper Aquifer (Stantec, September 2011); MW-176 to be sampled initially in Q2 2013
- ★ Proposed Locations for new Upper Aquifer Monitoring Wells in Response to CAO No R6V-2008-0002-A4

 57 LAFAYETTE CIRCLE, 2ND FLOOR LAFAYETTE, CALIFORNIA PHONE: (925) 299-9300 FAX: (925) 299-9302	FOR:	Pacific Gas & Electric Groundwater Remediation Project Hinkley, California		FIGURE:	9				
	JOB NUMBER:	185702580	DRAWN BY:	TF		CHECKED BY:	CM	APPROVED BY:	CM