

April 24, 2014

Ms. Patty Kouyoumdjian, Executive Officer
Lahontan Regional Water Quality Control Board
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Subject: Status Report for the Northern Areas

Dear Ms. Kouyoumdjian:

On December 12, 2013 the Lahontan Regional Water Quality Control Board (Water Board) sent a letter to Pacific Gas and Electric Company (PG&E) which included a request for submittal of a work plan to investigate the occurrence of chromium in seven (7) specific areas which are primarily north of Red Hill in Water Valley (i.e., the “northern areas”). On January 17, 2014 PG&E submitted to the Water Board the *Northern Areas Investigation Proposal* (i.e., the “Northern Areas Proposal - NAP”). Updated NAP figures were provided to the Water Board on February 25, 2014 based on discussions between the Water Board staff and PG&E in South Lake Tahoe on February 21st. The updated NAP was conditionally approved by the Water Board in a February 26, 2014 letter to PG&E.

The conditionally approved NAP proposes the following:

- 1) Quarterly sampling of active domestic wells north of Grass Hopper Road (area WB-1) during the 1st and 2nd quarters of 2014 (2 events), pending property owner approval;
- 2) Upon property owner approval, installation of under sink reverse osmosis (RO) units in residences with active domestic wells in Water Valley (i.e., north of Red Hill); and,
- 3) Installation of monitoring wells at six locations (WB-2 to WB-7), pending access to public or private land.

The Water Board’s February 26, 2014 conditional approval letter includes six (6) conditions and this letter provides responses for each of them below. Attachment A specifically addresses the February 26th letter requirement for a 60 Day Status Report (conditions 4a to 4e).

Condition 1 – Install proposed monitoring wells wherever access has been granted by the property owner or by San Bernardino County on rights of way in proposed investigation areas south of Grasshopper Road.

Response – A detailed status of monitoring well installations for locations WB-2 to WB-7 as proposed in the NAP is provided in Attachment A. In summary, PG&E has obtained a signed access agreement for private property at one location (WB-6). Field inspections during the week of April 14th identified several active desert tortoises in this area. April through June is typically the most active time period for desert tortoise. If feasible, PG&E plans to install the monitoring well during the 3rd quarter 2014 when the desert tortoises are generally less active.

PG&E has also obtained a signed access agreement for a private property near Red Hill (location WB-3; formerly Red Hill E). However, the location does not fully meet the description for location WB-3 as called out in the Water Board's December 12, 2013 letter. PG&E suggests additional discussion with Water Board staff following review of this submittal to determine if the private property where PG&E has obtained a signed access agreement meets the intent of the Water Board's request for a monitoring well in this area. In the meantime, PG&E continues efforts to obtain signed access agreements for other private properties near Red Hill.

Note that Condition 1 refers to County of San Bernardino right-of-way access as possible locations for monitoring well installation. PG&E has installed numerous monitoring wells in the right-of-way with approval from the County. However, there are no right-of-way access options for locations WB-2 to WB-7. PG&E will continue working to obtain signed access agreements for private property.

Condition 2 – When access to properties for chromium investigation is not provided by property owners, propose an alternative investigation area to the Water Board. If no alternate parcels are available, such as Area 5 (WB-5), provide documentation of denial including for County right-of-way. Water Board staff is willing to provide assistance in gaining access to private properties where property owners have previously denied access and no reasonable alternative groundwater sampling locations exist.

Response – Detailed information regarding the status of PG&E efforts to obtain signed access agreements is provided in Attachment A, including documentation of denial for several parcels. PG&E is requesting Water Board assistance in gaining access for location WB-2. PG&E has identified a possible alternative parcel for location WB-5 and requests discussion with Water Board staff prior to well installation.

As discussed in Attachment A, PG&E has expanded the number of parcels where access is being requested from private property owners for several of these locations beyond what was presented in the NAP. PG&E has proactively reached out to these additional property owners and the status of these efforts is presented in Attachment A.

Condition 3 – Perform sampling of all active domestic wells in the eastern area of the Harper Dry Lake Valley, as shown on Figure 1, in conformance with sampling and monitoring requirements in Cleanup and Abatement Orders R6V-2011-0005, amended, and R6V-2008-0002, amended, and subsequent investigation orders for chromium plume boundary delineation. Continue sampling active domestic wells each quarter after the proposed investigation is complete.

Response - PG&E has identified 17 parcels north of Red Hill (i.e., in Water Valley) with active domestic wells. With property owner approval, PG&E conducted domestic well sampling at five (5) of these 17 locations in April 2014. Property owners at two (2) additional locations have recently agreed to well sampling, and these wells will also be sampled during the 2nd Quarter 2014. Of the remaining 10 parcels with active domestic wells, four (4) have formally declined sampling and the remaining six (6) have been non-responsive to date.

Condition 4 – This condition specifically requests submittal of a 60 day status report for access to sample active domestic wells, install under sink RO units, and install monitoring wells at locations WB-2 to WB-7. See Attachment A for the text of this condition and PG&E's detailed response.

PG&E's responses to Conditions 2 and 3 above provides a summary of PG&E efforts to gain access for sampling of active domestic wells in Water Valley and to install monitoring wells at locations WB-2 to WB-7. In regards to

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installation of the under-sink RO units, only one of the 17 property owners in Water Valley with an active domestic well has signed an access agreement to date. PG&E is currently working with this property owner to coordinate installation.

Three (3) property owners have declined the RO unit installation, and seven (7) property owners have been contacted by PG&E but at this time are undecided. The same six (6) property owners that have been non-responsive for sampling access have been non-responsive regarding RO unit installation.

Condition 5 – Within 10 calendar days of receiving validated laboratory reports, submit information to the Water Board, identify any increasing chromium detections in monitoring or domestic wells to the north or northwest of MW-193S3 during any sampling event or re-sampling event. Increasing concentrations is defined for the purposes of this letter as being 30 percent or greater compared to the previous quarter.

Response – Notifications regarding increasing concentrations as defined in Condition 5 were submitted to the Water Board via electronic mail on March 14, 2014 and March 27, 2014. Copies of these e-mails are included with this submittal as Attachment E. Note that the data for the 1st Quarter 2014 sampling event will be reported in the forthcoming site-wide sampling report, to be submitted to the Water Board by April 30, 2014. Data for the 2nd Quarter 2014 sampling event will be submitted to the Water Board by August 30, 2014.

Condition 6 – Starting with the first quarter 2014, when active domestic wells are sampled north of Grasshopper Road, the well location and sample results shall be included on chromium plume maps and chromium plume boundaries shall be drawn as dashed lines out to 3.1 ppb, 10 ppb, 50 ppb, and 1,000 ppb Cr6/CrT.

Response – Cr6/CrT results for active domestic wells sampled north of Grasshopper Road will be included on chromium plume maps in the quarterly Groundwater Monitoring Program Reports. The results will be drawn as noted in Condition 6.

If you have any questions regarding this letter or the attached information, please contact me at 925-818-9069.

Sincerely,



Kevin Sullivan
Hinkley Remediation Project Manager

Attachments –
A – 60 Day Status Report Text for Conditions 4a to 4e
B – Figure 1 and Updated Figures WB-2/4, WB-3/5, WB-6, and WB-7
C – Table 1 and Documentation of Denial (where applicable)
D - Process for Obtaining Private Property Access
E – E-Mail Submittals as Required in Condition 5

Attachment A – 60 Day Status Report (Conditions 4a to 4e)

The following identifies the 60 Day Status Report requirements of Condition 4 (in bold-italics), followed by the requested update information. Tables and figures are included as additional attachments and referenced as appropriate.

4. Within 60 calendar days of the date of this notice, provide a status report to the Water Board on the following items:

a. The progress for obtaining access to private properties north of Grasshopper Road to sample active domestic wells and install reverse osmosis systems. Cite the well numbers where access has been provided, if applicable, and when well sampling is planned.

PG&E has conducted field reconnaissance and identified 17 properties with active domestic wells north of Red Hill (i.e., in Water Valley). The parcels where these active domestic wells are located north of Red Hill are shown on Figure 1 included as Attachment B.

Below is a list of the 17 properties identified and the current status. To date, seven (7) property owners have agreed to well sampling and one property owner has agreed to RO unit installation. Six (6) property owners have declined sampling and/or declined RO unit installation, and six (6) property owners have been non-responsive to PG&E contact efforts.

APN	Street Address	Well ID	Bottled Water Program Participant	Well Testing Agreement Status	Well Sampled (Date)	RO Agreement Status	RO Agreement: Delivered (Date)	RO Agreement Signed (Date)
0489-193-06	42201 FRIENDS ST	28N-02	Y	Declined		Declined		
0489-193-15	20220 HOLSTEAD RD	32N-01	N	Agreed	Pending	Undecided	3/13/2014	
0489-211-07	21622 SUNSET DR	N/A	N	Agreed	Pending	Undecided	3/13/2014	
0489-241-01	44041 ORCHARD RD	16N-01	N	Agreed	4/3/2014	Agreed		3/28/2014
0489-241-05	43938 HINKLEY RD	N/A	N	Non-Responsive		Non-Responsive		
0489-271-14	42650 HINKLEY RD	21N-05	N	Agreed	4/3/2014	Undecided	3/21/2014	
0489-271-20	42651 ORCHARD ST	N/A	N	Non-Responsive		Non-Responsive		
0489-271-48	21430 TOBACCO RD	21N-01	Y	Declined		Undecided	4/1/2014	

APN	Street Address	Well ID	Bottled Water Program Participant	Well Testing Agreement Status	Well Sampled (Date)	RO Agreement Status	RO Agreement: Delivered	RO Agreement Signed
0489-271-51	42584 HINKLEY RD	21N-04	Y	Agreed	4/3/2014	Declined	3/10/2014	
0489-271-53	42474 HINKLEY RD	21N-03	Y	Agreed	4/3/2014	Declined	3/7/2014	
0489-271-55	44340 MAY RD	21N-02	Y	Agreed	4/3/2014	Undecided	3/14/2014	
0489-211-06	41850 HINKLEY RD	28N-06	Y	Declined		Undecided	3/7/2014	
0489-182-08	42750 ORCHID DR	N/A	N	Declined		Undecided	3/25/2014	
0489-271-57	42770 HINKLEY RD	N/A	N	Non-Responsive		Non-Responsive		
0489-193-05	42100 FRIENDS ST	N/A	N	Non-Responsive		Non-Responsive		
0489-193-31	20455 HALSTEAD RD	N/A	Y	Non-Responsive		Non-Responsive		
0489-261-04	21480 BROWN RANCH RD	N/A	N	Non-Responsive		Non-Responsive		

Color Code	Color Description (see Figure 1)
	Declined Well Sampling and Under Sink RO Unit
	Agreed to Well Sampling and Undecided about Under Sink RO Unit
	Agreed to Well Sampling and Under Sink RO Unit
	Non-Responsive to PG&E
	Agreed to Well Sampling but Declined Under Sink RO Unit
	Declined Well Sampling and Undecided about Under Sink RO Unit

b. The progress for obtaining access to private properties for the six investigation areas south of Grasshopper Road for installing monitoring wells. Cite the properties where access has been provided, if applicable, and where access is in progress, or has been denied.

c. When access to properties for chromium investigation is not provided by property owners or San Bernardino County for right-of-way, provide supporting documentation and an alternate investigation area, if feasible.

Figures 2-WB-2/4, 2-WB-3/5, 2-WB-6, and 2-WB-7 included in the NAP illustrated conceptual parcels for well installation. No public property such as County of San Bernardino right-of-way is available for well installation these areas. Access to federal land is not available at this time. In accordance with condition 4b, the updated figures provided in Attachment B illustrate where access has been provided, where access is in process, and where access has been denied.

PG&E has been working diligently to contact property owners and identify parcels for well installation. As shown on the updated figures in Attachment B, PG&E has expanded the number of parcels where access is being solicited from private property owners. Additional discussion is provided on Table 1 included as Attachment C along with documentation of denial where applicable.

PG&E's process for obtaining access is summarized on the flow chart provided in Attachment D. The following summarizes the status of obtaining access.

WB-2

There are 2 large parcels in this area (048919312 & 048919338 - Ohai) that are not federal land. Both parcels are owned by a single owner. The owner provided PG&E with verbal denial to access on April 7, 2014. There are no alternative areas for monitoring well installation in this area. PG&E requests the Water Board's assistance in developing a path forward to obtain property access in this area for monitoring well installation.

WB-3

Property directly east of monitoring well MW-193 is federal land. PG&E has conducted a field reconnaissance to identify other nearby private property that may provide access for drilling in consideration of species and habitat protection requirements. The following discusses the status of six (6) parcels where PG&E continues access efforts.

049511254 and 049511250 – (Southern California Public Power Authority) – Initial attempts at reaching the property owner by telephone were not successful. A certified outreach letter was mailed on April 4, 2014 and PG&E received notice of signed delivery receipt on April 8th. PG&E has been contacted by the property owner and is currently discussing potential property access.

048908234 – (Tucker) - Initial attempts at reaching the property owner by telephone were not successful. PG&E obtained an updated mailing address on April 4, 2014. A certified outreach letter was mailed on April 4, 2014 and PG&E received notice of signed delivery receipt on April 16th. The property owner has contacted PG&E and requested a map showing a possible well location. PG&E provided the map to the property owner on April 21st and is awaiting a response.

048908235 (Hong), 048908237 (Ahlback), and 048908254 (Benitez) – These are three additional parcels identified by PG&E that were not part of the approved NAP. PG&E recently acquired property owner information for these three parcels and is initiating efforts to contact the owners.

WB-4 (Former Red Hill A)

Owners of several parcels have denied access. The utility corridor (Roy Road) that cuts through this area limits access due to overhead lines. PG&E has conducted a field reconnaissance to identify private property that may provide access for drilling in consideration the overhead power lines and the species and habitat protection requirements. The following discusses the status of parcels where PG&E continues access efforts.

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049511216 – (Lee) – A private roadway is present extending south and southeast from Roy/Halstead Road that could potentially be used for drilling and well installation. Initial attempts at reaching the property owner by telephone were not successful. A certified outreach letter was mailed on April 4, 2014 and a signed delivery receipt was received by PG&E on April 7th. PG&E has yet to receive a response from the owner.

049511275 – (Mercurial Multi Media) – A private roadway appears to provide access through the southwest corner of this parcel. Initial attempts at reaching the property owner by telephone were not successful. A certified outreach letter was mailed on March 28, 2014 and PG&E received notice of signed delivery receipt on April 1st. PG&E has yet to receive a response from the owner.

049511277 – (Simon) - A private roadway is present extending south and southeast from Roy/Halstead Road that could potentially be used for drilling and well installation. Initial attempts at reaching the property owner by telephone were not successful. A certified outreach letter was mailed on March 28, 2014 and PG&E received notice of signed delivery receipt on March 31st. PG&E has yet to receive a response from the owner.

049514229 – (Hsieh) - A private roadway is present that could potentially be used for drilling and well installation. Initial attempts at reaching the property owner by telephone and mail were not successful. A certified outreach letter was mailed on March 28, 2014 and PG&E received notice of signed delivery receipt on April 1st. PG&E has yet to receive a response from the owner.

WB-5 (formerly Northern E)

A large parcel (049511234) occupies much of this area and PG&E has been unable to contact the property owner. PG&E has identified additional parcels to the north and west. An access agreement was signed on March 31, 2014 for parcel 049511225 (Florentine). Additional discussion is requested with Water Board staff before drilling on this parcel to confirm the location meets the agency requirements. Below is a discussion of PG&E's continued efforts to gain access to other parcels in this area which are potentially accessible for well installation.

049511234 – (PS ESTATE LLC) – Previous attempts to contact the property owner have been unsuccessful. A certified outreach letter was mailed on March 28, 2014. PG&E received notice on April 9th the letter was undeliverable.

049511226 – There is a private roadway that crosses the southern portion of this parcel and appears acceptable for drilling and well installation. A certified outreach letter was mailed on March 28, 2014 and PG&E received notice of signed delivery receipt on March 31st. PG&E has yet to receive a response from the owner.

WB-6

Access has been obtained to parcel 049502336. PG&E has identified an appropriate drilling location along Coon Canyon Road as shown on Figure 2-WB-6. However, field reconnaissance of the drilling area during the week of April 14th identified several desert tortoises at multiple locations along the roadway. Desert tortoises are typically most active during the April and June timeframe. Therefore, PG&E plans to install this monitoring well during the 3rd Quarter 2014 to minimize the potential risk of tortoise take during well installation.

WB-7

The majority of property owners have refused access, or the property does not provide adequate access for drilling due to the presence of species and/or habitat. An updated mailing address was obtained on March 27, 2014 for the two remaining potential parcels 049510321 and 049510324 (Sara Cook care of Charlene Handy). PG&E had previously attempted to gain access to these two parcels but was unsuccessful. A certified outreach letter was mailed on March 28, 2014 and PG&E received notice of signed delivery receipt on April 1, 2014. PG&E is awaiting a response from the property owner.

d. Map of proposed monitoring well locations. Follow the chromium plume map specification listed in CAO R6V-2008-0002-A4 and further clarified in our December 12, 2013 letter, including showing the extent of chromium plume boundaries drawn out to 3.1 ppb, 10 ppb, 50 ppb, and 1,000 ppb Cr6/CrT.

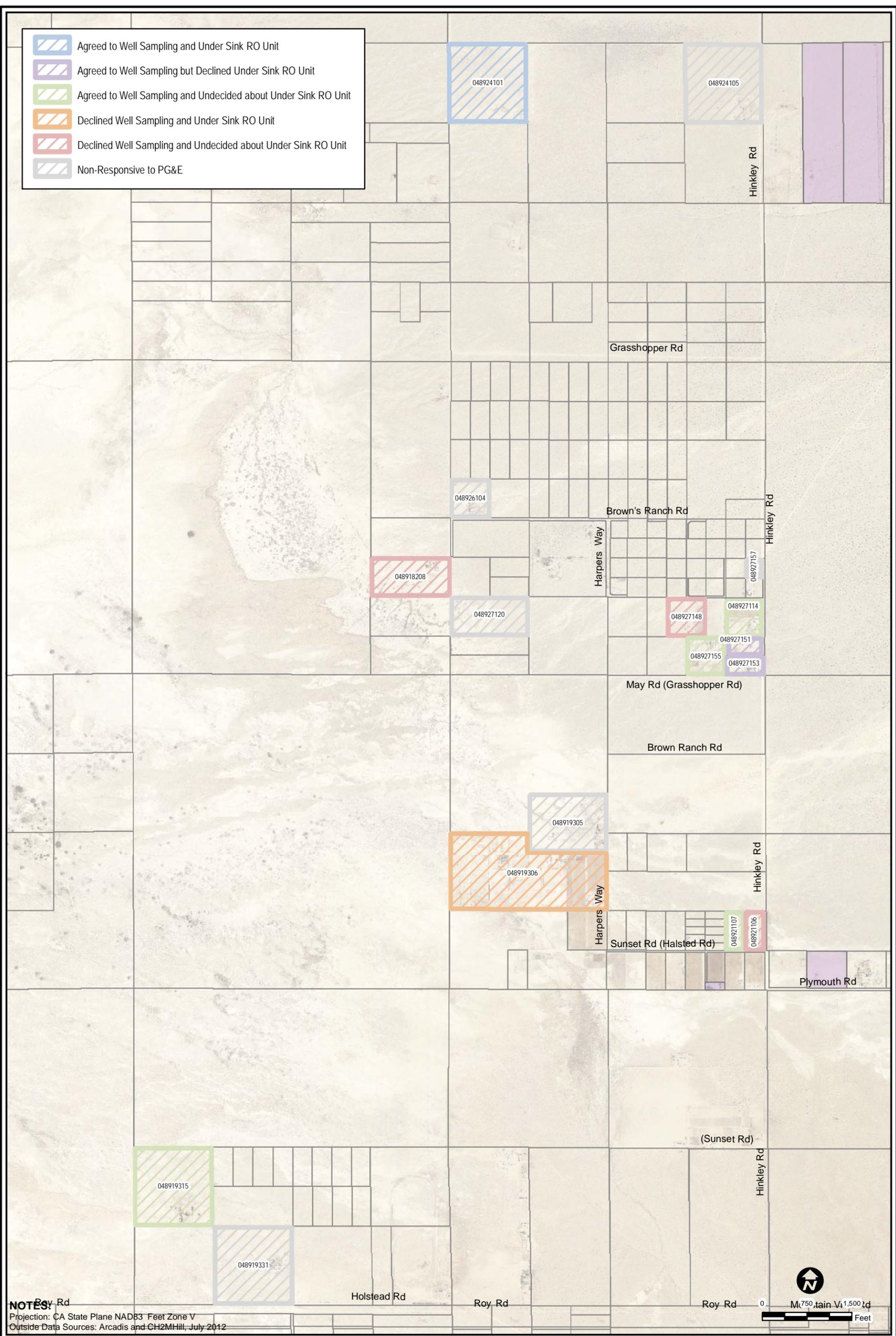
The updated Figure 2-WB-6 illustrates the conceptual monitoring well location. This figure follows the chromium plume map specifications referenced in this condition. Well locations have not been determined for WB-2 to WB-5 or WB-7.

e. A schedule for installing and sampling monitoring wells.

An exploratory boring is tentatively scheduled for advancement at the WB-6 location in the 3rd Quarter 2014 to record the lithology and obtain samples for sieve analyses in accordance with the procedures set forth in the NAP. Well installation and development is tentatively scheduled to follow during the 3rd Quarter 2014. Boring advancement and well installation are pending biological clearance for desert tortoises currently present in the immediate vicinity of this proposed well location.

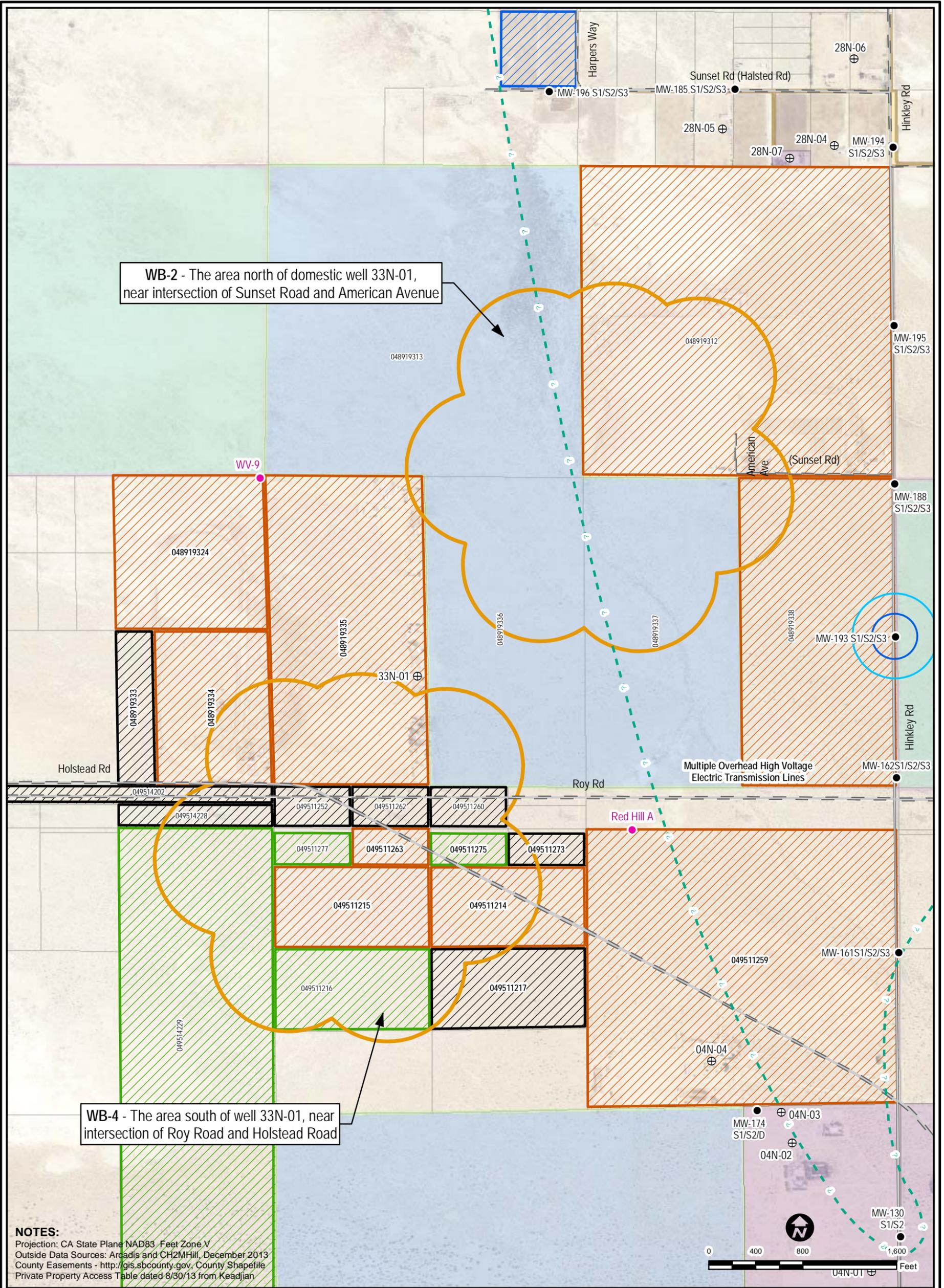
V:\1857\PG&E\EMXD_Files\1st Half 2014\Misc\Figure 1 (RO Filters) (2014-4-15)11x17.mxd

	Agreed to Well Sampling and Under Sink RO Unit
	Agreed to Well Sampling but Declined Under Sink RO Unit
	Agreed to Well Sampling and Undecided about Under Sink RO Unit
	Declined Well Sampling and Under Sink RO Unit
	Declined Well Sampling and Undecided about Under Sink RO Unit
	Non-Responsive to PG&E



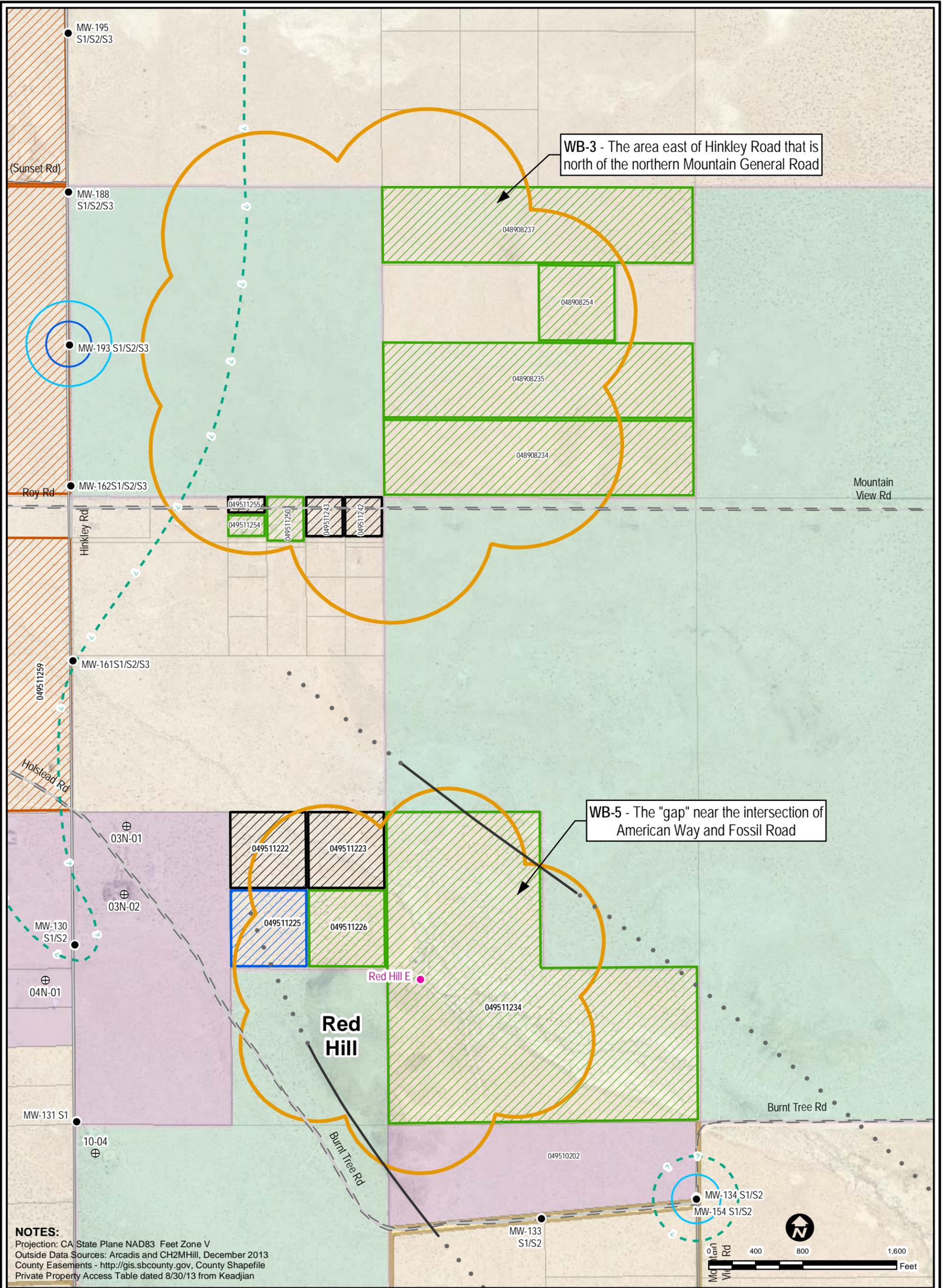
NOTES
 Projection: CA State Plane NAD83 Feet Zone V
 Outside Data Sources: Arcadis and CH2MHill, July 2012

PGE Property Boundaries (12/31/13)	 Stantec 57 LAFAYETTE CIRCLE, 2ND FLOOR LAFAYETTE, CALIFORNIA PHONE: (925) 299-9300 FAX: (925) 299-9302	FOR:	Pacific Gas & Electric		STATUS OF NORTH WATER VALLEY DOMESTIC WELL SAMPLING AND REVERSE OSMOSIS SYSTEM ACCEPTANCE	FIGURE:	1		
		JOB NUMBER:	185702424	DRAWN BY:		TF		CHECKED BY:	HQ



Wells by Well Type ● Monitoring Well ⊕ Domestic Supply Well ● Monitoring Well Previously Proposed by PG&E (Not Installed Due to Access Limitations, see Table 1) ● PGE Property Boundaries (03/31/14) ● BLM Properties ● Other Government Properties ● County Easement	Investigation Area as Described in Water Board Letter to PG&E (12-12-13) ● Chromium Plume (Fourth Quarter 2013) Concentration of Hexavalent Chromium (ug/l) ● 3.1 ug/l ● 10 ug/l ● 50 ug/l	Access Status ● Denial ● PG&E Attempting to Contact the Owner or the Owner has been Contacted but is Undecided ● Property not Accessible for Monitoring Well Installation because there is no Access Route, there are Overhead Power Lines, and/or there are Sensitive Species and/or Habitat Present ● Access Agreement Signed and Drilling Location Identified	INVESTIGATION AREAS WB-2 AND WB-4 IDENTIFIED IN WATER BOARD LETTER TO PG&E DATED DECEMBER 12, 2013 (UPDATED APRIL 2014)		FIGURE: 2-WB-2/4	
			FOR: Pacific Gas & Electric Groundwater Remediation Project Hinkley, California		JOB NUMBER: 185702580	DRAWN BY: TF

V:\1857\PG&E\MXD_Files\2nd Half 2013\7 Areas\Figure 2 WB-3 (MW Study Area 7 Areas) (2014-4-21)1x17.mxd

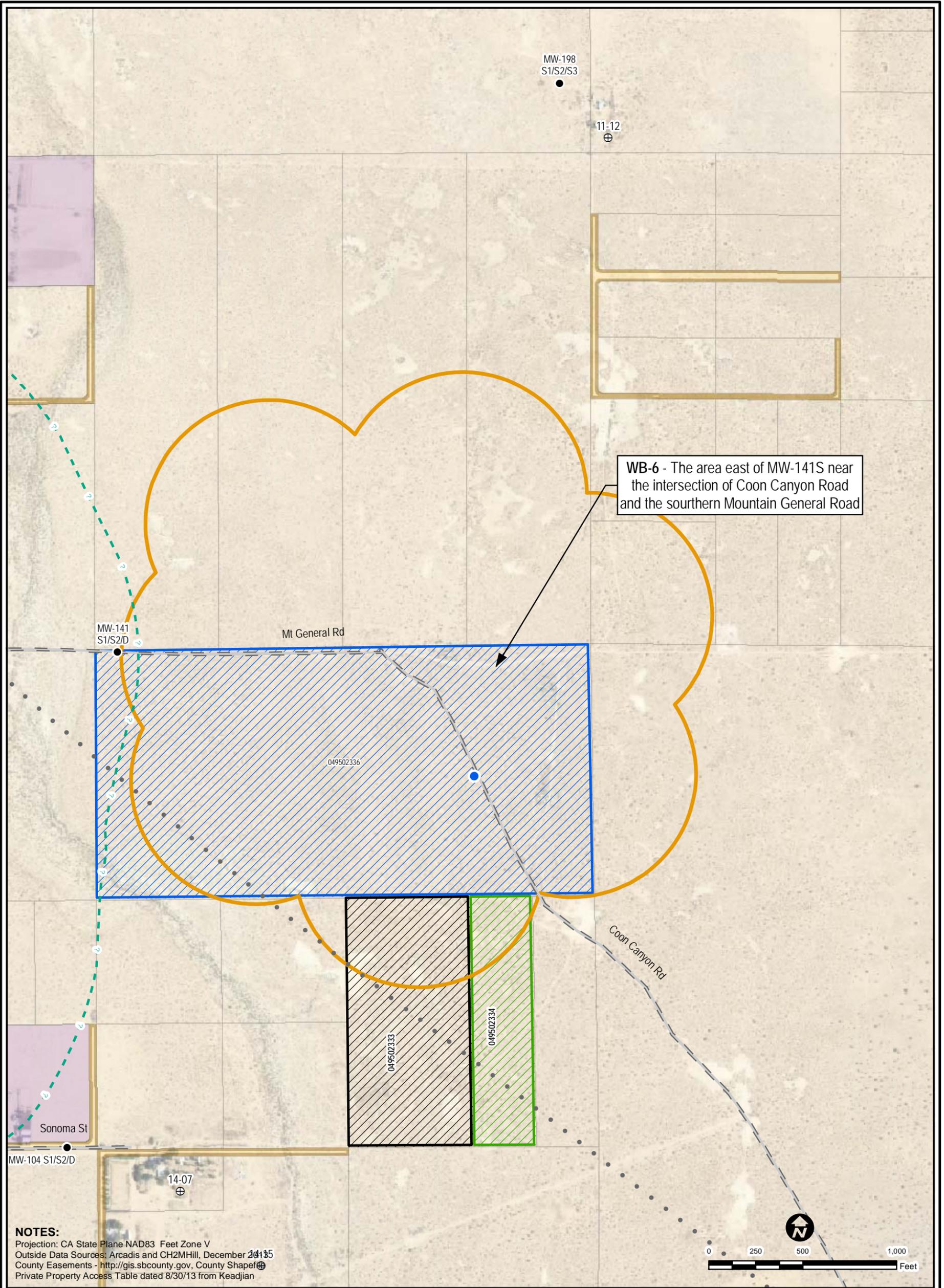


NOTES:
 Projection: CA State Plane NAD83 Feet Zone V
 Outside Data Sources: Arcadis and CH2MHill, December 2013
 County Easements - <http://gis.sbcounty.gov>, County Shapefile
 Private Property Access Table dated 8/30/13 from Keadjian

<p>Wells by Well Type</p> <ul style="list-style-type: none"> ● Monitoring Well ⊕ Domestic Supply Well ● Monitoring Well Previously Proposed by PG&E (Not Installed Due to Access Limitations, see Table 1) <p> PGE Property Boundaries (03/31/14) BLM Properties Other Government Properties County Easement </p>	<p>Chromium Plume (Fourth Quarter 2013) Concentration of Hexavalent Chromium (ug/l)</p> <p> 3.1 ug/l 10 ug/l 50 ug/l </p>	<p>Investigation Area as Described in Water Board Letter to PG&E (12-12-13)</p> <p> Investigation Area as Described in Water Board Letter to PG&E (12-12-13) </p>	<p>Access Status</p> <ul style="list-style-type: none"> Denial PG&E Attempting to Contact the Owner or the Owner has been Contacted but is Undecided Property not Accessible for Monitoring Well Installation because there is no Access Route, there are Overhead Power Lines, and/or there are Sensitive Species and/or Habitat Present Access Agreement Signed and Drilling Location Identified
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 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		INVESTIGATION AREAS WB-3 AND WB-5 IDENTIFIED IN WATER BOARD LETTER TO PG&E DATED DECEMBER 12, 2013 (UPDATED APRIL 2014)		FIGURE: 2-WB-3/5
	JOB NUMBER: 185702580	DRAWN BY: TF	CHECKED BY: CM	APPROVED BY: CM	DATE: 04/24/14

V:\1857\PG&E\MXD_Files\2nd Half 2013\7 Areas\Figure 2 WB-6 (WV Study Area 7 Areas) (2014-4-15) 11x17.mxd

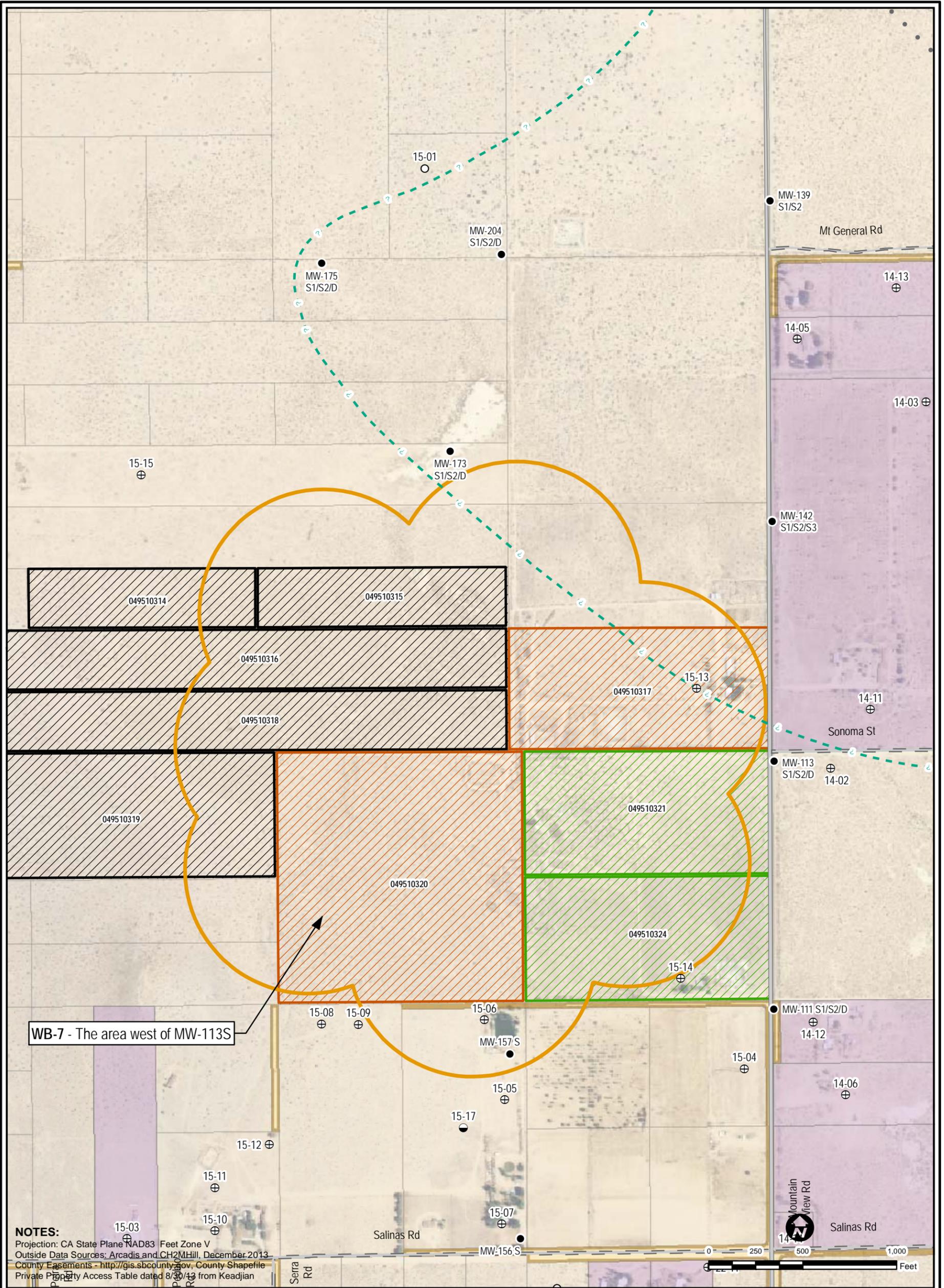


WB-6 - The area east of MW-141S near the intersection of Coon Canyon Road and the southern Mountain General Road

NOTES:
 Projection: CA State Plane NAD83 Feet Zone V
 Outside Data Sources: Arcadis and CH2MHill, December 2013
 County Easements - <http://gis.sbcounty.gov>, County Shapefile
 Private Property Access Table dated 8/30/13 from Keadjian

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| <p>Wells by Well Type</p> <ul style="list-style-type: none"> ● Monitoring Well ⊕ Domestic Supply Well ● Conceptual New Well Location - Drilling Tentative Scheduled for 3rd Quarter 2014 ■ PGE Property Boundaries (03/31/14) ■ County Easement | <p> Investigation Area as Described in Water Board Letter to PG&E (12-12-13)</p> <p>Chromium Plume (Fourth Quarter 2013)
 Concentration of Hexavalent Chromium (ug/l)
 3.1 ug/l</p> | <p>Access Status</p> <ul style="list-style-type: none"> Denial PG&E Attempting to Contact the Owner or the Owner has been Contacted but is Undecided Property not Accessible for Monitoring Well Installation because there is no Access Route, there are Overhead Power Lines, and/or there are Sensitive Species and/or Habitat Present Access Agreement Signed and Drilling Location Identified |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

 Stantec 57 LAFAYETTE CIRCLE, 2ND FLOOR LAFAYETTE, CALIFORNIA PHONE: (925) 299-9300 FAX: (925) 299-9302	FOR:		INVESTIGATION AREA WB-6 IDENTIFIED IN WATER BOARD LETTER TO PG&E DATED DECEMBER 12, 2013 (UPDATED APRIL 2014)		FIGURE:
	Pacific Gas & Electric Groundwater Remediation Project Hinkley, California				2-WB-6
JOB NUMBER:	185702580	DRAWN BY:	TF	CHECKED BY:	CM
				APPROVED BY:	CM
					DATE: 04/24/14



<p>Wells by Well Type</p> <ul style="list-style-type: none"> ● Monitoring Well ⊕ Domestic Supply Well ○ Other Supply Well ● Agricultural Supply Well 	<p> Investigation Area as Described in Water Board Letter to PG&E (12-12-13)</p> <p>Chromium Plume (Fourth Quarter 2013) Concentration of Hexavalent Chromium (ug/l)</p> <p> 3.1 ug/l</p>	<p>Access Status</p> <ul style="list-style-type: none"> Denial PG&E Attempting to Contact the Owner or the Owner has been Contacted but is Undecided Property not Accessible for Monitoring Well Installation because there is no Access Route, there are Overhead Power Lines, and/or there are Sensitive Species and/or Habitat Present Access Agreement Signed and Drilling Location Identified
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 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		INVESTIGATION AREA WB-7 IDENTIFIED IN WATER BOARD LETTER TO PG&E DATED DECEMBER 12, 2013 (UPDATED APRIL 2014)		FIGURE: 2-WB-7
	JOB NUMBER: 185702580	DRAWN BY: TF	CHECKED BY: CM	APPROVED BY: CM	DATE: 04/24/14

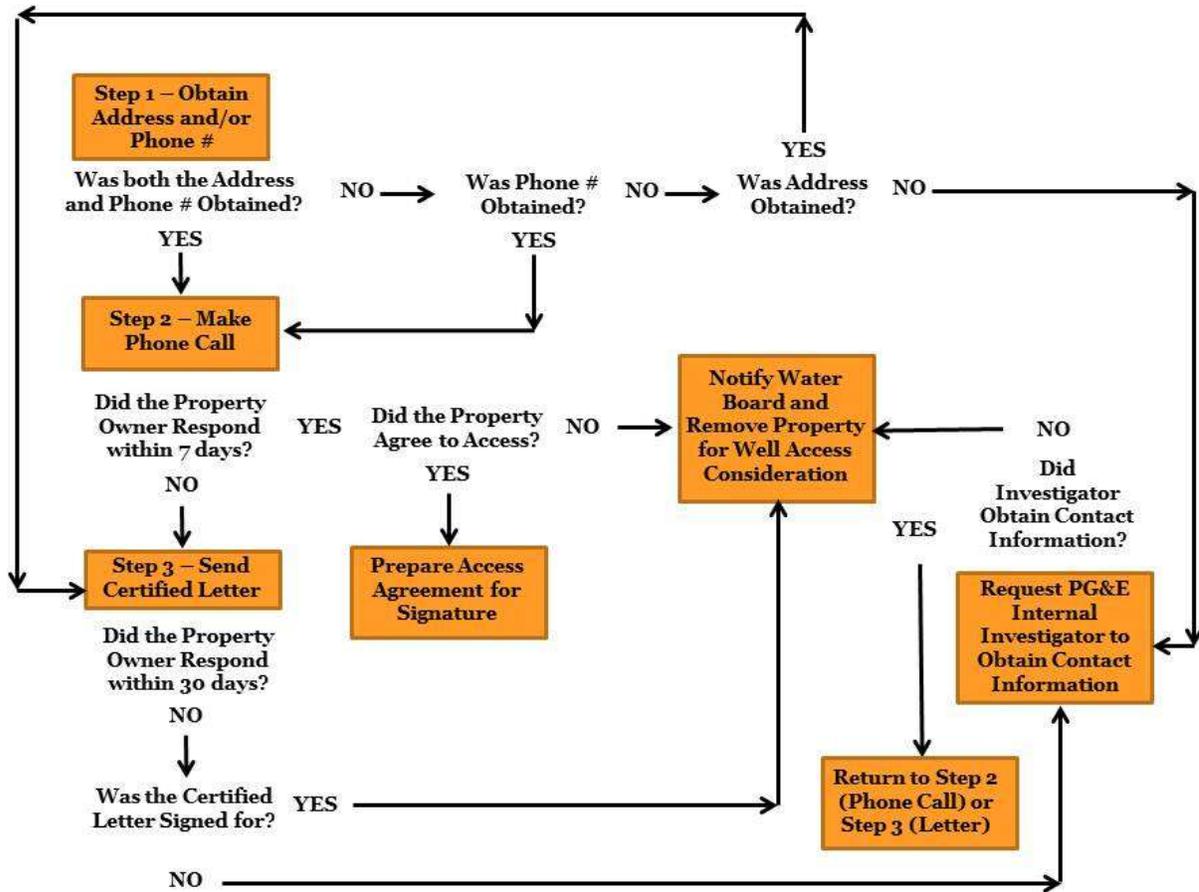
Table 1
 Status of Access for Monitoring Well Installation- April 2014
 Pacific Gas and Electric Company Hinkley Chromium Remediation Project

<u>Proposed Well Location</u>	<u>APN</u>	<u>Property Owner Address</u>	<u>Status Summary</u>
WB-2	048919312 & 048919338	37304 Hinkley Rd., Hinkley, CA 92347	Unable to contact via telephone. Initial outreach letter mailed 02/26/14. Certified Outreach Letter Mailed 3/28/2014 and Signed Delivery Receipt 4/02/14. Verbal denial to access location on 4/07/14.
WB-3	048908234	1374 Carman Dr., Barstow, CA 92311	Unable to contact via telephone. Certified Outreach Letter Mailed 4/4/2014 and Signed Delivery Receipt 4/16/14. Property owner requested a map of the proposed monitoring well location and the requested information was mailed (4/21/14).
	049511242	Southern California Public Power Authority (SCPPA) 1160 Nicole Court Glendora, CA 91740	Not accessible due to overhead power lines per site inspection 3/19/14.
	048908235	7182 WHEATON CIR WESTMINSTER CA 92683	PG&E has recently obtained contact information and is preparing initial outreach efforts.
	048908237	526 FAIRFAX AVE SAN MATEO CA 94402	PG&E has recently obtained contact information and is preparing initial outreach efforts.
	048908254	26156 CORONADA DRMORENO VALLEY CA 92555	PG&E has recently obtained contact information and is preparing initial outreach efforts.
	049511243	SCPPA	Not accessible due to overhead power lines per site inspection 3/19/14.
	049511250	SCPPA	Field observation completed and possible access for well installation identified (3/19/14). Unable to contact via telephone. Certified Outreach Letter Mailed 4/4/2014 and Signed Delivery Receipt (4/8/14).
	049511254	SCPPA	Field observation completed and possible access for well installation identified (3/19/14). Unable to contact via telephone. Certified Outreach Letter Mailed 4/4/2014 and Signed Delivery Receipt 4/8/14.
WB-4 (includes former Red Hill A and WV-9)	049511255	2801 Oak Creek Dr, Unit C, Ontario, CA 91761	Not accessible due to overhead power lines per site inspection 3/19/14.
	049514202	Jose Ibarra	Not accessible due to overhead power lines per site inspection 3/19/14.
	049514228	SCPPA	Not accessible due to overhead power lines per site inspection 3/19/14.
	049514229	3350 Scott BLVD #STE 15 Santa Clara, CA 95050	Unable to contact via telephone. Initial outreach letter mailed 02/26/14. Stantec field observation located possible access road for well installation on 3/19/14. Certified Outreach Letter Mailed 3/28/2014 and Signed Delivery Receipt 4/01/14.
	049511216	Hanne Overbeck, 12215 Charnock RD Los Angeles, CA 90066	Unable to contact via telephone. Stantec field observation located possible access road for well installation 3/19/14. Updated mailing address obtained (4/4/14). Certified Outreach Letter Mailed 4/4/2014 and Signed Delivery Receipt 4/07/14.
	049511252	SCPPA	Not accessible due to overhead power lines per site inspection 3/19/14.
	049511260	SCPPA	Not accessible due to overhead power lines per site inspection 3/19/14.
	049511262	SCPPA	Not accessible due to overhead power lines per site inspection 3/19/14.
	049511277	1000 Elysian Park AVE Los Angeles, CA 90026	Unable to contact via telephone. Initial outreach letter mailed 02/26/14. Certified Outreach Letter Mailed 3/28/2014 and Signed Delivery Receipt 3/31/14.
	049511259	21515 Holstead, Hinkley, CA 92347	Verbal denial; property owner not willing to sign access agreement (06/12/13 & 08/16/13).
	049511273	12222 Crystal Hills Way, Porter Ranch, CA 91326	Unable to obtain an access route for well installation per site inspections on 09/23/13 and 3/19/14.
	049511275	6202 Friars Rd, Unit 325, San Diego, CA 92108	Unable to contact via telephone. Stantec field observation located possible access road for well installation 3/19/14. Certified Outreach Letter Mailed 3/28/2014 and Signed Delivery Receipt 4/01/14.
	049511214	3901 S. Joplin Way, Aurora, CO 80013	Unable to contact via telephone. Initial outreach letter mailed 06/18/13. Verbal denial to access location on 09/26/13.
	049511217	7861 E. Kael St, Mesa AZ 85207	Unable to obtain an access route for well installation per site inspections on 09/23/13 and 3/19/14.
	049511263	13043 Choco Rd, Apple Valley, CA 92308	Unable to contact via telephone. Initial outreach letter mailed 06/18/13. Verbal denial to access location on 08/17/13.
	049511215	15918 El Centro, Hesperia, CA 92345	Unable to contact via telephone. Initial outreach letter mailed 06/18/13. Verbal denial to access location on 08/07/13.
048919335	21102 Halstead, Hinkley, CA 92347 / Catherine Garcia, 6722 Vanport Ave, Whittier, CA 90606	Verbal denial to access location on 06/05/13.	
048919324	20796 Halstead, Hinkley, CA 92347 / PO Box 63, Hinkley, CA 92347	Unable to contact via telephone. Initial outreach letter mailed 06/11/13 and 06/14/13. Verbal denial to access location on 08/08/13.	
048919334	20800 Halstead Rd., Hinkley, CA 92347 / Mailing: 223 Armsley Sq, Ontario, CA 91762	Verbal denial to access location on 08/16/13.	
048919333	22372 Amber Eve Dr, Corona, CA 92883	Unable to obtain an access route for well installation per site inspections on 8/6/13 and 3/19/14.	

Table 1
 Status of Access for Monitoring Well Installation- April 2014
 Pacific Gas and Electric Company Hinkley Chromium Remediation Project

<u>Proposed Well Location</u>	<u>APN</u>	<u>Property Owner Address</u>	<u>Status Summary</u>
WB-5 (Former Red Hill E)	049511234	26260 BOUQUET CANYON RD, SANTA CLARITA CA 91350	Unable to contact via telephone. Initial outreach letter mailed 06/11/13. Map of the proposed well location requested by property owner (07/31/13). Access agreement and map mailed (08/06/13). PG&E made aware of property ownership change (08/21/13). Updated mailing address obtained by PG&E for new ownership 09/24/13. Initial outreach letter sent to new owners 09/26/13. Certified Outreach Letter Mailed to new owners 3/28/2014. Certified Mail Undeliverable; unable to forward (4/9/14).
	049511226	4882 Ridglea Ave., Buena Park, CA 90621	Unable to contact via telephone. Initial outreach letter mailed 06/14/13. Certified Outreach Letter Mailed 3/28/2014 and Signed Delivery Receipt 3/31/14.
	049511223	2953 Jacaranda Ave, Costa Mesa, CA 92626	Unable to obtain an access route for well installation per site inspection 09/23/13.
	049511225	32452 Via Mentone, Dana Point, CA 92677	Access agreement signed on 03/31/2014. Well installation pending further discussions with the Water Board to determine if this parcel provides an appropriate monitoring point in this area.
	049511222	35903 42st East, Palmdale, CA 93552	Unable to obtain an access route for well installation per site inspection (08/21/13)
WB-6	049502333	1506 N. WILLOW AVE COMPTON CA 90221	Access agreement signed October 2013. Follow-up inspection of the parcel determined there is no access for monitoring well installation.
	495023334	766 ALAMEDA, ALTADENA CA 91001	Initial outreach letter to request monitoring well access mailed 07/30/13. Obtained phone number and left message on 09/23/13. No returned phone call. Certified letter not sent because access was obtained to two other nearby parcels.
	049502336	1511 Maxwell Ln, Vista, CA 92084	Access agreement signed. Well location identified along Coon Canyon Road but desert tortoise identified near well location. Well installation planned for 3rd quarter 2014 when tortoise are expected to be less active.
WB-7 (Former Well C)	049510317	38970 N. Mountain View Rd, Hinkley, CA 92347	Verbal denial to access location on 8/28/2012 and 06/05/13.
	049510318	37466 Hinkley Rd Hinkley, CA 92347	Unable to obtain access route for well installation.
	049510321 and 049510234	1325 26th St., Apt E, Santa Monica, CA 90404	Unable to contact via telephone. Initial outreach letter mailed 06/18/13. Certified Outreach Letter Mailed 3/28/2014 and Signed Delivery Receipt 4/01/14.
	049510320	38970 N. Mountain View Rd, Hinkley, CA 92347	Verbal denial to access location on 8/28/2012 and 06/05/13.
	049510316	37466 Hinkley Rd Hinkley, CA 92347	Unable to obtain access route for well installation.
	049510319	37466 Hinkley Rd Hinkley, CA 92347	Unable to obtain access route for well installation.
	049510315	20406 HIAWATHA, CHATSWORTH CA 91311	Unable to obtain access route for well installation.
	049510314	20406 HIAWATHA, CHATSWORTH CA 91311	Unable to obtain access route for well installation.

Attachment D – Process for Obtaining Private Property Access



From: Baker, Iain
Sent: Friday, March 14, 2014 5:12 PM
To: Dernbach, Lisa@Waterboards (Lisa.Dernbach@waterboards.ca.gov); Kemper, Lauri@Waterboards (Lauri.Kemper@waterboards.ca.gov)
Cc: Dudley, Matthew(Law); Sullivan, Kevin M (CRPO); Starring, Danielle
Subject: NOTIFICATION: Increased Chromium Detections North or Northwest of MW-193S3

Lisa and Laurie.

We are providing notification to the Water Board of results with increased concentrations, as requested in Water Board's February 26, 2014 letter entitled "*Conditional Acceptance of Northern Areas Investigation Proposal*" (the Letter). This notification is in compliance with Condition 5 of the Letter which states the following:

"Within 10 calendar days of receiving validated laboratory reports, submit information to the Water Board, identifying any increasing chromium detections in monitoring or domestic wells to the north or northwest of MW-193S3 during any sampling event or re-sampling event. Increasing concentrations is defined for the purpose of this letter as being 30 percent or greater compared to the previous quarter."

The area referenced in this condition and the wells located within it can be seen on the attached Figure 1; 27 monitoring and 12 private wells (not owned by PG&E) are located within the subject area. All 4Q13 and 1Q14 validated data available to date for wells in this area is presented in the attached table and will be reported in the upcoming report *First Quarter 2014 Groundwater Monitoring and Domestic Well Sampling Results*.

This correspondence is to provide information and notification of the following observations:

- Nine out of a total of 39 wells in the subject area displayed an increase in chromium concentrations as defined by the above condition during the most recent first quarterly 2014 sampling event. The wells displaying a chromium concentration increase of 30% or greater are shown in the attached table figure.
- Seven wells displayed decreases of 30 percent or more (see attached table and figure).
- The nearest downgradient monitoring well cluster to the MW-193 cluster (i.e., MW-188 cluster) did not have any wells that displayed chromium concentration increases of greater than 30%.
- None of the wells showing increases of 30% or greater are located on private property.
- Although monitoring wells MW-185S2 and MW-195S3 display increases in total chromium they also show decreases in hexavalent chromium.

Wells in the Vicinity of the MW-193 Well Cluster

Well ID	4Q13		1Q14		% Change	
	Cr(T)	Cr(VI)	Cr(T)	Cr(VI)	Cr(T)	Cr(VI)
21N-01 ^a	--	--	--	--	--	--
21N-02 ^a	--	--	--	--	--	--
21N-03 ^a	--	--	--	--	--	--
21N-04 ^a	--	--	--	--	--	--
27N-01	1.9	2.1	1.9	2.1	0%	0%
28N-01 ^a	--	--	--	--	--	--
28N-02 ^a	--	--	--	--	--	--
28N-03 ^a	--	--	--	--	--	--
28N-04 ^b	--	--	4	4.3	--	--
28N-05	4.1	4.3	3.5	3.7	-15%	-14%
28N-06 ^a	--	--	--	--	--	--
33N-01	2.4	2.4	2.8	3	17%	25%
33N-02	3.3	3.6	3.6	3.7	9%	3%
MW-184S1	3.3	3.1	6.4	5.2	94%	68%
MW-184S2	3.9	3.5	ND<1	0.14	-74%	-96%
MW-184S3	3.8	3.7	3.7	3.4	-3%	-8%
MW-185S1	5.3	4.5	6.1	5.5	15%	22%
MW-185S2	2.4	1.9	5.5	0.73	129%	-62%
MW-185S3	3.6	3.5	3.8	3.4	6%	-3%
MW-186S1	3.9	4.1	5.8	4.3	49%	5%
MW-186S2	1.6	1.1	4.1	3	156%	173%
MW-186S3	4	2.7	4.4	3.3	10%	22%
MW-188S1	6.7	6.8	6.3	6.9	-6%	1%
MW-188S2	1.5	0.94	1.1	0.82	-27%	-13%
MW-188S3	4.2	4	5.4	3.7	29%	-8%
MW-193S1	4.3	4.2	4.4	4.2	2%	0%
MW-193S2	11.6	11.4	42	42.4	262%	272%
MW-193S3	160	143	270	275	69%	92%
MW-194S1	6.2	6.7	7.2	7	16%	4%
MW-194S2	3.4	2.9	2.2	0.16	-35%	-94%
MW-194S3	2.7	2.8	ND<1	0.33	-63%	-88%
MW-195S1	7.3	6.5	5.1	5.1	-30%	-22%
MW-195S2	5.9	2.2	7.3	3	24%	36%
MW-195S3	2.7	1.4	6.4	0.75	137%	-46%
MW-196S1	3.9	3.6	5.1	3.5	31%	-3%
MW-196S2	3.3	3.1	1.9	1.5	-42%	-52%
MW-196S3	ND<1	ND<0.06	ND<1	ND<0.06	0%	0%
MW-205S1	3.7	3.6	4.1	3.6	11%	0%
MW-205S2	3.5	3.6	3.9	3.8	11%	6%
MW-205S3	3.4	3.5	4.1	3.8	21%	9%

Notes: Orange highlighting indicates increases in Cr6 and/or CrT > 30%

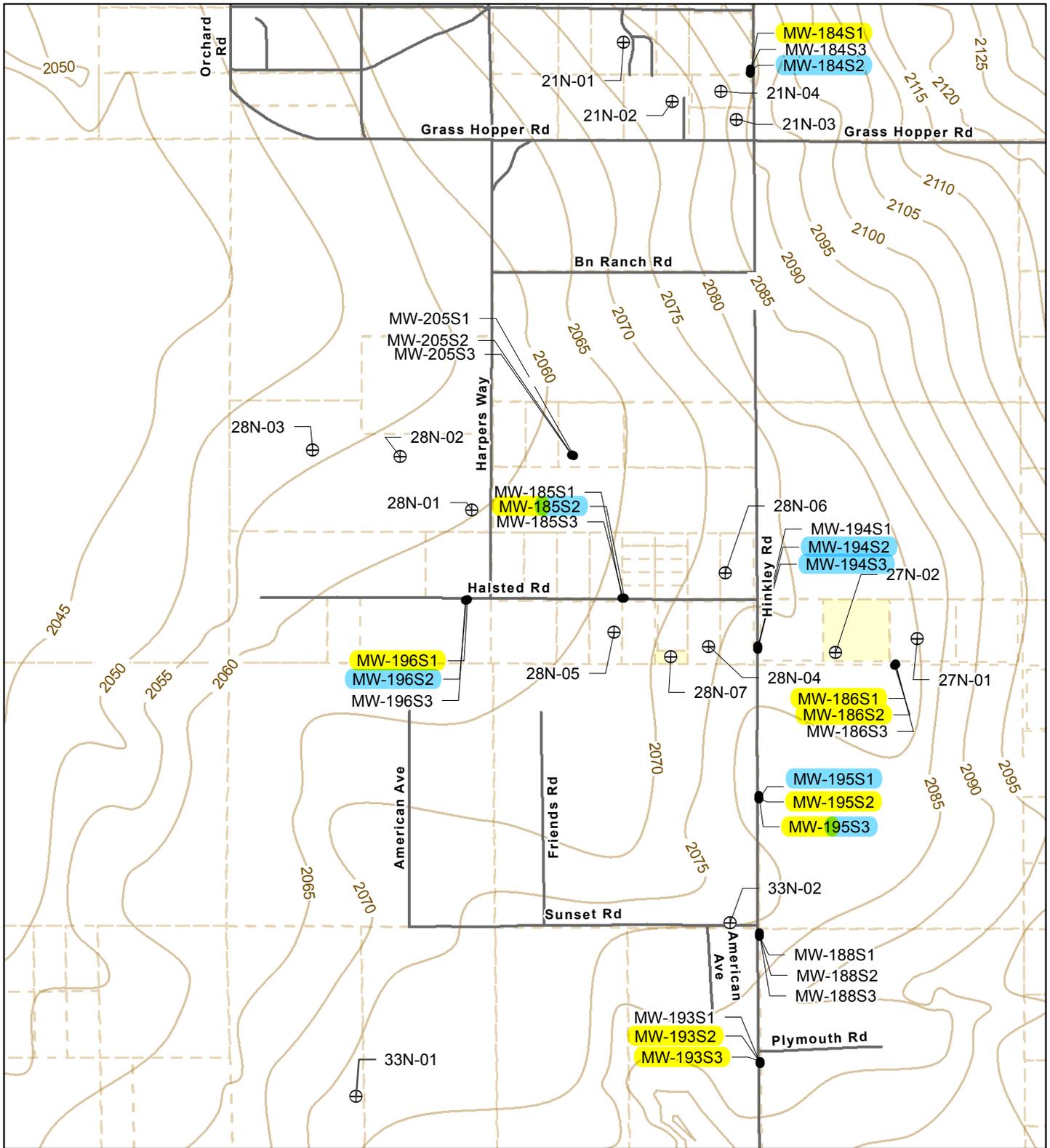
Blue highlighting indicates decreases of Cr6 and/CrT >30%

Does not include PG&E-owned wells that have been removed from the domestic well sampling program.

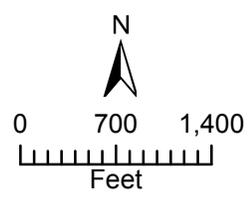
-- Indicates data is not available

^aNot included in 1Q14 quarterly domestic well sampling program. Will be included in upcoming quarterly Water Valley Study Area sampling program (upon receipt of owner permission).

^bWell was broken in 4Q13.



- ⊕ Domestic Well
- Monitoring Well
- PG&E Owned Property
- County Parcels
- 5 Foot Topographic Contours



Notes:
Contours Generated from
USGS 10 meter DEM.

- MW-193S3** Wells highlighted in yellow have >30% increase in Cr6 and/or CrT.
- MW-195S3** Wells highlighted in blue have >30% decrease in Cr6 and/or CrT.
- MW-185S2** Wells highlighted in yellow and blue have CrT increase > 30% but Cr6 decrease > 30%.

FIGURE 1
WATER VALLEY WELLS
PACIFIC GAS & ELECTRIC CO. COMPRESSOR STATION
HINKLEY, CALIFORNIA

From: Starring, Danielle [<mailto:D9SS@pge.com>]
Sent: Thursday, March 27, 2014 11:46 AM
To: Lisa Dernbach (lisa.dernbach@waterboards.ca.gov); Lauri (lauri.kemper@waterboards.ca.gov)
Cc: Sullivan, Kevin M (CRPO)
Subject: NOTIFICATION: Additional Increased Chromium Detections North or Northwest of MW-193S3

Lisa and Lauri,

On March 14, 2014, we provided notification to you of results with increased concentrations near the MW-193 well cluster, as requested in Water Board's February 26, 2014 letter entitled "*Conditional Acceptance of Northern Areas Investigation Proposal*" (the Letter). Five of the monitoring wells in the MW-193 area were resampled on March 6 and 7 due to significant differences between total and hexavalent chromium concentrations observed in the earlier 1Q14 sampling results. Four of the five resampled wells indicated increases of hexavalent and/or total chromium concentrations greater than 30% (relative to 4Q13 concentrations).

This notification is in compliance with Condition 5 of the Letter which states the following:

"Within 10 calendar days of receiving validated laboratory reports, submit information to the Water Board, identifying any increasing chromium detections in monitoring or domestic wells to the north or northwest of MW-193S3 during any sampling event or re-sampling event. Increasing concentrations is defined for the purpose of this letter as being 30 percent or greater compared to the previous quarter."

Twenty-seven monitoring and 12 private wells (not owned by PG&E) are located within the subject area (see attached Figure 1). The following observations were made:

- Four of the five resampled wells showed increases in either total or hexavalent chromium during resampling, as compared to 4Q13 results (see attached table).
- The nearest downgradient monitoring well cluster to the MW-193 cluster (i.e., MW-188 cluster) did not display chromium concentration increases of greater than 30% during the initial or resampling events.
- None of the wells showing increases of 30% or greater are located on private property.

The 1Q14 validated data for wells in this area will be reported in the upcoming report *First Quarter 2014 Groundwater Monitoring and Domestic Well Sampling Results*.

If you have any questions or would like to discuss, please let me know.

Regards,
Danielle

Danielle N. Starring, PE
PG&E
3401 Crow Canyon Road
San Ramon, CA 94583
925.407.6437 (mobile)
d9ss@pge.com

Wells in the Vicinity of the MW-193 Well Cluster

Well ID	4Q13		Initial Sampling Event				Resampling Event ^c			
	Cr(T)	Cr(VI)	Cr(T)	Cr(VI)	% Change		1Q14 Resample		% Change	
					Cr(T)	Cr(VI)	Cr(T)	Cr(VI)	Cr(T)	Cr(VI)
21N-01 ^a	--	--	--	--	--	--			--	--
21N-02 ^a	--	--	--	--	--	--			--	--
21N-03 ^a	--	--	--	--	--	--			--	--
21N-04 ^a	--	--	--	--	--	--			--	--
27N-01	1.9	2.1	1.9	2.1	0%	0%			--	--
28N-01 ^a	--	--	--	--	--	--			--	--
28N-02 ^a	--	--	--	--	--	--			--	--
28N-03 ^a	--	--	--	--	--	--			--	--
28N-04 ^b	--	--	4	4.3	--	--			--	--
28N-05	4.1	4.3	3.5	3.7	-15%	-14%			--	--
28N-06 ^a	--	--	--	--	--	--			--	--
33N-01	2.4	2.4	2.8	3	17%	25%			--	--
33N-02	3.3	3.6	3.6	3.7	9%	3%			--	--
MW-184S1	3.3	3.1	6.4	5.2	94%	68%			--	--
MW-184S2	3.9	3.5	1	0.14	-74%	-96%			--	--
MW-184S3	3.8	3.7	3.7	3.4	-3%	-8%			--	--
MW-185S1	5.3	4.5	6.1	5.5	15%	22%			--	--
MW-185S2	2.4	1.9	5.5	0.73	129%	-62%	4.7	3.7	96%	95%
MW-185S3	3.6	3.5	3.8	3.4	6%	-3%			--	--
MW-186S1	3.9	4.1	5.8	4.3	49%	5%			--	--
MW-186S2	1.6	1.1	4.1	3	156%	173%			--	--
MW-186S3	4	2.7	4.4	3.3	10%	22%			--	--
MW-188S1	6.7	6.8	6.3	6.9	-6%	1%			--	--
MW-188S2	1.5	0.94	1.1	0.82	-27%	-13%			--	--
MW-188S3	4.2	4	5.4	3.7	29%	-8%	4.9	4.5	17%	13%
MW-193S1	4.3	4.2	4.4	4.2	2%	0%			--	--
MW-193S2	11.6	11.4	42	42.4	262%	272%			--	--
MW-193S3	160	143	270	275	69%	92%			--	--
MW-194S1	6.2	6.7	7.2	7	16%	4%			--	--
MW-194S2	3.4	2.9	2.2	0.16	-35%	-94%	6.4	4.1	88%	41%
MW-194S3	2.7	2.8	1	0.33	-63%	-88%			--	--
MW-195S1	7.3	6.5	5.1	5.1	-30%	-22%			--	--
MW-195S2	5.9	2.2	7.3	3	24%	36%	4.5	4.1	-24%	86%
MW-195S3	2.7	1.4	6.4	0.75	137%	-46%	3.6	3.4	33%	143%
MW-196S1	3.9	3.6	5.1	3.5	31%	-3%			--	--
MW-196S2	3.3	3.1	1.9	1.5	-42%	-52%			--	--
MW-196S3	1	0.06	1	0.06	0%	0%			--	--
MW-205S1	3.7	3.6	4.1	3.6	11%	0%			--	--
MW-205S2	3.5	3.6	3.9	3.8	11%	6%			--	--
MW-205S3	3.4	3.5	4.1	3.8	21%	9%			--	--

Notes: Orange highlighting indicates increases in Cr6 and/or CrT > 30%

Blue highlighting indicates decreases of Cr6 and/CrT >30%

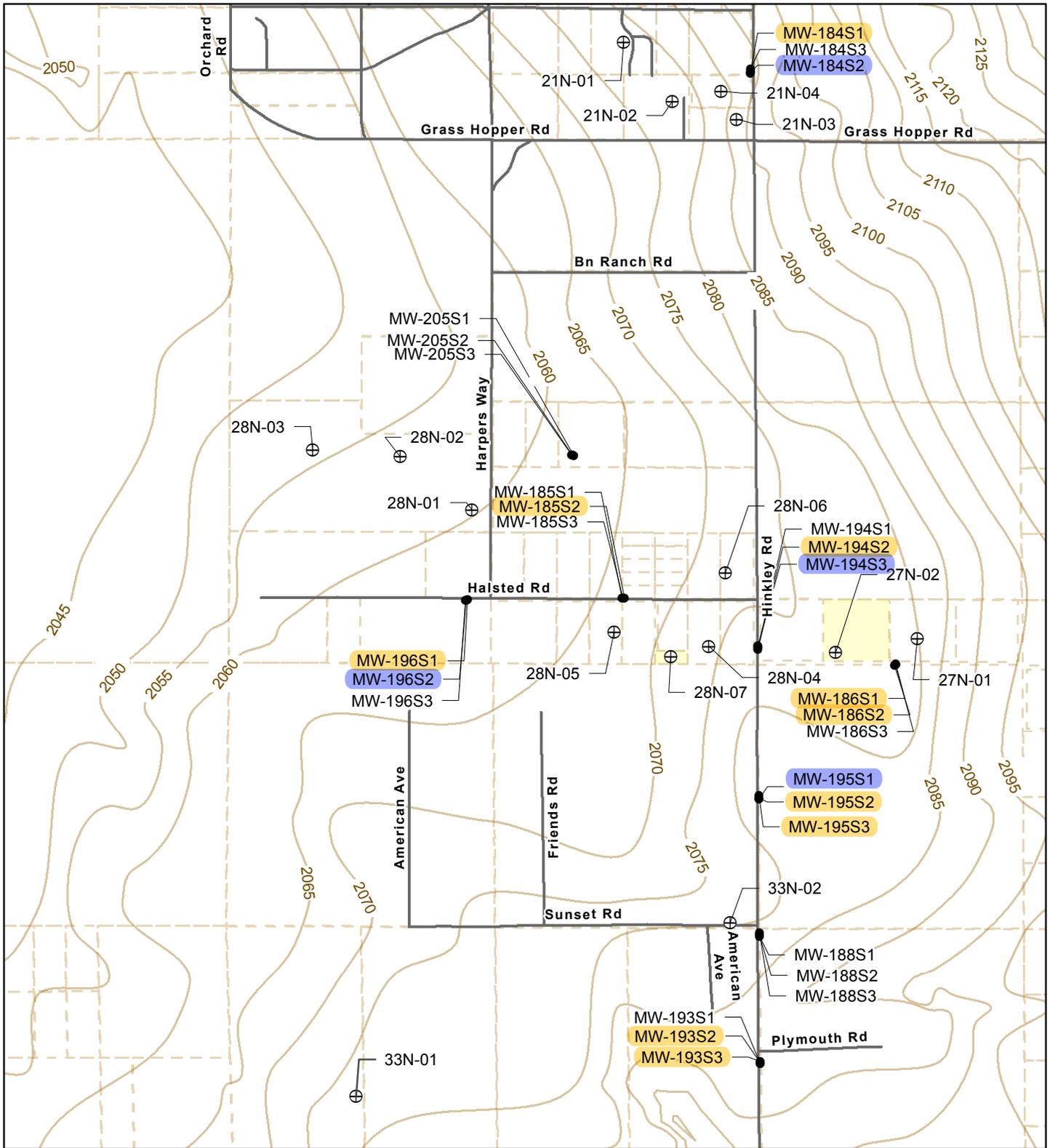
Does not include PG&E-owned wells that have been removed from the domestic well sampling program.

-- Indicates data is not available

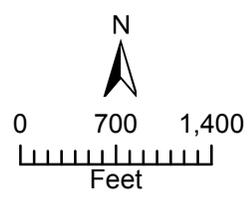
^aNot included in 1Q14 quarterly domestic well sampling program. Will be included in upcoming quarterly Water Valley Study Area sampling program (upon receipt of owner permission).

^bWell was broken in 4Q13.

^cPercentages are calculated relative to 4Q13 results, not 1Q14 initial sample results



- ⊕ Domestic Well
- Monitoring Well
- PG&E Owned Property
- County Parcels
- 5 Foot Topographic Contours



Notes:
Contours Generated from
USGS 10 meter DEM.

MW-193S3 Wells highlighted in yellow have >30% increase in Cr6 and/or CrT (comparing 4Q13 and most recent 1Q14 results).

MW-195S3 Wells highlighted in blue have >30% decrease in Cr6 and/or CrT (comparing 4Q13 and most recent 1Q14 results).

FIGURE 1
WATER VALLEY WELLS
PACIFIC GAS & ELECTRIC CO. COMPRESSOR STATION
HINKLEY, CALIFORNIA