

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**MEETING OF NOVEMBER 28 AND 29, 2007**

Barstow and Lancaster, California

- ITEM:** 7
- SUBJECT:** PUBLIC HEARING - RESOLUTION CERTIFYING A MITIGATED NEGATIVE DECLARATION FOR THE PACIFIC GAS AND ELECTRIC COMPANY DESERT VIEW DAIRY LAND TREATMENT UNIT EXTRACTION SYSTEM OPTIMIZATION PROJECT, HINKLEY, SAN BERNARDINO COUNTY
- CHRONOLOGY:** This is a new item before the Regional Board
- |                    |   |
|--------------------|---|
| August 4, 2003     | PG&E submits a draft Report of Waste Discharge for the proposed interim pumping project   |
| July 27, 2004      | Waste Discharge Requirements (WDRs) adopted for the Interim Plume Containment and Hexavalent Chromium Treatment Project - Board Order No. R6V-2004-0034.                        |
| July 25, 2007      | PG&E submits a draft Report of Waste Discharge for the proposed Optimization Project.   |
| September 21, 2007 | Staff circulated Tentative WDR for the Optimization Project.  |
| October 11, 2007   | State Clearinghouse circulated the Draft Mitigated Negative Declaration for local public review of the Optimization Project. (November 9, 2007 was the ending date for review.) |
- ISSUES:** Should the Board adopt a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Plan for the Optimization Project in compliance with the California Environmental Quality Act?
- DISCUSSION:** The Pacific Gas and Electric Company (PG&E) is proposing to optimize the existing groundwater extraction system located on the Desert View Dairy (DVD) and enhance hydraulic control of the northwestern portion of the chromium plume by extracting from six additional extraction wells that are not located on the DVD. The project is located approximately 1 1/2 miles east of the community of Hinkley in San Bernardino County, and 1 1/2 miles north of the PG&E compressor station.

07-0001

The Desert View Dairy Land Treatment Unit (DVD LTU) groundwater extraction system is comprised of a ground water extraction system and an 80-acre LTU and is currently regulated under existing waste discharge requirements (Board Order Number R6V-2004-0034). The DVD LTU is designed to provide containment of the northern portions of the Hinkley groundwater polluted with hexavalent chromium, Cr(VI), and total chromium, Cr(T). The DVD LTU uses four existing groundwater extraction wells on the DVD.

Additional groundwater drawdown (up to five feet) is predicted to occur in areas south, southeast, southwest, and west of the DVD LTU. Areas of highest predicted drawdown are located on PG&E property, although forty private supply wells may expect up to two additional feet of drawdown.

PG&E has designed the project to incorporate mitigation measures into the project to mitigate the potential effects on air quality, hazardous materials, and water quality to reduce these impacts to less than significant levels.

Water Board staff finds that there is no substantial evidence that the project will have a significant effect on the environment.

**RECOMMENDATION:** Certification of the Resolution as proposed.

Enclosures:

1. Proposed Resolution
2. Initial Study/Environmental Checklist

**ENCLOSURE 1**

07-0003

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**RESOLUTION NO. R6V-2007-(PROPOSED)  
WDID NO. 6B360303001**

**FOR**

**CERTIFYING A MITIGATED NEGATIVE DECLARATION  
FOR PACIFIC GAS AND ELECTRIC COMPANY  
DESERT VIEW DAIRY LAND TREATMENT UNIT EXTRACTION SYSTEM  
OPTIMIZATION PROJECT, HINKLEY**

San Bernardino County

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WHEREAS, the California Regional Water Quality Control Board, Lahontan Region (hereinafter the Water Board) finds:

1. It is the responsibility of the Water Board to regulate the activities and factors which affect the quality of waters of the region, in order to achieve the highest water quality of waters of the region consistent with maximum benefit to the people of the state; and
2. California Water Code section 13260(a)(1) requires that any person discharging wastes, or proposing to discharge wastes other than into a community wastewater collection system, which could affect the quality of the waters of the State, shall file a Report of Waste Discharge (RWD) with the Regional Water Quality Control Board exercising jurisdiction in the area, and that Regional Board shall then prescribe requirements for the discharge or proposed discharge of wastes; and
3. The Pacific Gas and Electric Company (PG&E) (hereinafter Discharger) has filed a RWD and applied for Amended Waste Discharge Requirements to discharge extracted groundwater for treatment of pollutants to the Desert View Dairy Land Treatment Unit (DVD LTU) located on the Desert View Dairy (DVD); and
4. The Desert View Dairy Land Treatment Unit (DVD LTU) groundwater extraction system that is currently regulated under existing waste discharge requirements (Board Order Number R6V-2004-0034) is designed to provide containment of the northern portions of the Hinkley groundwater polluted with hexavalent chromium, Cr(VI), and total chromium, Cr(T), using four existing groundwater extraction wells on the Desert View Dairy (DVD); and
5. The Discharger has proposed to optimize the existing extraction system and enhance hydraulic control of the northwestern portion of the chromium plume by extracting from six additional extraction wells that are not located on the DVD; and
6. The LTU is an unlined, uncovered area for treatment of groundwater affected by Cr(VI). During treatment, the soluble, hexavalent form of chromium is converted to the insoluble, trivalent form within the shallow soil during subsurface drip irrigation that is applied to a variety of grasses at the LTU; and

07-0004

7. A five-foot treatment zone has been established for the Facility as required by section 20250(b)(5) of Article 3, Title 27, California Code of Regulations; and
8. A water quality protection standard has been established for DVD LTU in waste discharge requirements as required by section 20390 of Article 1, Subchapter 3, Chapter 3, Title 27, California Code of Regulations (formerly Chapter 15); and
9. The Regional Board is the lead agency pursuant to section 15051 of the California Environmental Quality Act (CEQA) Guidelines; and has prepared an Initial Study/Checklist in accordance with section 15063 of the CEQA Guidelines; and
10. Mitigation measures have been incorporated into the Project that bring the level of all potential impacts to a level of insignificance; Water Board staff prepared a Mitigated Negative Declaration, pursuant to section 15070 et seq. of the CEQA Guidelines; and
11. Water Board staff circulated the draft Mitigated Negative Declaration for public review through the State Clearinghouse and through direct mailing to interested parties as required by Water Code section 13244; and made copies of these documents available at specified locations and on the Internet; and
12. The Water Board, in a public hearing, has reviewed and considered the Proposed Mitigated Negative Declaration and all comments received and responses thereto; and
13. The Mitigated Negative Declaration identifies potential impacts on air quality, hazardous materials, and water quality. PG&E has designed the project to incorporate mitigation measures into the project to mitigate the potential effects on air quality, hazardous materials, and water quality to reduce these impacts to less than significant levels; and
14. There is no substantial evidence in the record that the certification of the Mitigated Negative Declaration for the Optimization Project, as mitigated, will have any adverse impacts on the environment.
15. The Water Board has reviewed the Initial Study/Checklist and Mitigated Negative Declaration concerning this Resolution prepared by staff, in compliance with the California Environmental Quality Act (Public Resources Code section 21000 et seq.). The Water Board concurs with the staff findings that a Negative Declaration should be certified.
16. The Water Board considered all testimony and evidence at a public hearing held on November 28, 2007, at Barstow, California and good cause was found to approve the Initial Study/Checklist and proposed Mitigated Negative Declaration. After consideration of the written and oral comments, and staff's professional review and advice, the Water Board finds that there is no evidence in the record to support a fair argument that there may be adverse environmental impacts resulting from the proposed discharge.

**THEREFORE BE IT RESOLVED:**

1. The draft Initial Study/Mitigated Negative Declaration and the responses to public comments constitute a complete and technically adequate environmental document in compliance with the California Environmental Quality Act;
2. The Water Board finds, on the basis of the initial study, Mitigated Negative Declaration, comments received and responses thereto that there is no substantial evidence that the project will have a significant effect on the environment;
3. The Mitigated Negative Declaration is hereby certified, and the Executive Officer is directed to file a Notice of Determination with the State Clearinghouse within 30 days in accordance with section 15075 of the State CEQA Guidelines;
4. The Executive Officer is authorized to sign the Certificate of Fee Exemption and to transmit it to the California Department of Fish and Game (CDFG) in lieu of payment of the CDFG filing fee;
5. A copy of this Resolution shall be forwarded to the State Water Resources Control Board and all interested parties;
6. The discharge of Cr(T), Cr(VI), N, and TDS into soil and groundwater shall conform with all requirements, conditions, and provisions set forth in the Discharge Prohibitions and Discharge Specifications of the Order No. R6V-2006-(PROPOSED). Groundwater and air monitoring shall conform to Monitoring and Reporting Program No. R6V-2004-0034A1 (PROPOSED).

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Lahontan Region, on November 28, 2007.

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HAROLD J. SINGER  
EXECUTIVE OFFICER

**ENCLOSURE 2**

**07-0007**

For U.S. Mail: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044  
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SC# 2007101050

Project Title: DESERT VIEW DAIRY LAND TREATMENT UNIT EXPANSION SYSTEM OPTIMIZATION PROJECT  
 Lead Agency: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Contact Person: CHUCK CUMETIS  
 Mailing Address: 1400 G ST, SACRAMENTO, CA 95814 Phone: 530-542-5460  
 City: VICTORVILLE Zip: 92392 County: SAN BERNARDINO

Project Location:  
 County: MTN BERNARDINO City/Town/Community: HINKLEY Total Acres: 197  
 Cross Street: SANTA FE AVE & ALMONTAIN VIEW RD Zip Code: 92392  
 Assessor's Parcel No.: 014-014-014-014 Section: 06 Twp.: 7N Range: 3W Base: 58814  
 Within 2 miles: State Hwy: 58 Waterways: MOZART RIVER  
 Airport: \_\_\_\_\_ Railways: BN&P/OT&E Schools: HINKLEY SCHOOL

Document Type:  
 CEQA:  
 NOP  Draft EIR  NEPA:  NOI  
 Early Conc.  Supplement to EIR  EA  Draft EIS  
 Neg Dec  Subsequent EIR  Draft EIS  
 Int Neg Dec  Other: \_\_\_\_\_  FONSI

RECEIVED  
 OCT 11 2007  
 STATE CLEARINGHOUSE

Other:  
 Initial Document  
 Final Document  
 Other: \_\_\_\_\_

Local Action Type:  
 General Plan Update  Master Plan  Use Permit  Coastal Permit  
 General Plan Amendment  Planned Unit Development  Land Division (Subdivision, etc.)  Other: \_\_\_\_\_  
 General Plan Element  Site Plan  Annexation  
 Community Plan  Rezone  Redevelopment  
 Specific Plan  Rezone

Development Type:  
 Residential: Units \_\_\_\_\_ Area \_\_\_\_\_  Water Facilities: Type \_\_\_\_\_ MGD \_\_\_\_\_  
 Office: Sq Ft \_\_\_\_\_ Area \_\_\_\_\_ Employees \_\_\_\_\_  Transportation: Type \_\_\_\_\_  
 Commercial: Sq Ft \_\_\_\_\_ Area \_\_\_\_\_ Employees \_\_\_\_\_  Mining: Mineral \_\_\_\_\_  
 Industrial: Sq Ft \_\_\_\_\_ Area \_\_\_\_\_ Employees \_\_\_\_\_  Power: Type \_\_\_\_\_ MW \_\_\_\_\_  
 Educational \_\_\_\_\_  Waste Treatment: Type Chromatography MGD 0.497  
 Recreational \_\_\_\_\_  Hazardous Waste: Type \_\_\_\_\_  
 Other: \_\_\_\_\_

Project Issues That May Have A Significant Or Potentially Significant Impact:  
 Aesthetic/Visual  Economic/Job  Public Services/Facilities  Traffic/Circulation  
 Agricultural Land  Fiscal  Recreation/Parks  Vegetation  
 Air Quality  Flood Plain/Flooding  Schools/Universities  Water Quality  
 Archeological/Historical  Forest Land/Fire Hazard  Septic Systems  Water Supply/Groundwater  
 Biological Resources  Geologic/Seismic  Sewer Capacity  Wetland/Riparian  
 Coastal Zone  Minerals  Soil Erosion/Compaction/Grading  Growth Inducement  
 Drainage/Absorption  Noise  Solid Waste  Land Use  
 Population/Housing Balance  Toxic/Hazardous  Cumulative Effects  
 Other: \_\_\_\_\_

Present Land Use/Zoning/General Plan Designation: AG-AP

Project Description: (Please use a separate page if necessary) PG&E HAS PROPOSED TO OPTIMIZE THE EXISTING GROUNDWATER EXTRACTION SYSTEM AT THE DESERT VIEW DAIRY TO ENHANCE HYDRAULIC CONTROL OF THE NORTHWESTERN PORTION OF THE CHROMIUM PLUME. THE PROJECT CONSISTS OF ADDING SIX GROUNDWATER EXTRACTION WELLS TO THE EXISTING FOUR-WELL GROUNDWATER SYSTEM CURRENTLY EMPLOYED AT THE DESERT VIEW DAIRY LAND TREATMENT UNIT.

State Clearinghouse Contact: (916) 445-0613  
 State Review Began: 10-11-2007  
 SCH COMPLIANCE: 11-9-2007  
 Please note State Clearinghouse Number (SCH#) on all Comments  
 SCH#: 2007101050  
 Please forward late comments directly to the Lead Agency  
 AQMD/APCD 33/26  
 (Resources: 10 / 13)

Project Sent to the following State Agencies

<input checked="" type="checkbox"/> Resources	State/Consumer Svcs
<input type="checkbox"/> Boating & Waterways	General Services
<input type="checkbox"/> Coastal Comm	Cal EPA
<input type="checkbox"/> Colorado Rvr Bd	ARB - Airport Projects
<input checked="" type="checkbox"/> Conservation	ARB - Transportation Projects
<input checked="" type="checkbox"/> Fish & Game # <u>6</u>	ARB - Major Industrial Projects
<input type="checkbox"/> Delta Protection Comm	Integrated Waste Mgmt Bd
<input type="checkbox"/> Cal Fire	<input checked="" type="checkbox"/> SWRCB: Clean Wtr Prog
<input type="checkbox"/> Historic Preservation	SWRCB: Wtr Quality
<input checked="" type="checkbox"/> Parks & Rec	SWRCB: Wtr Rights
<input type="checkbox"/> Reclamation Board	<input checked="" type="checkbox"/> Reg. WQCB # <u>LV</u>
<input type="checkbox"/> Bay Cons & Dev Comm	<input checked="" type="checkbox"/> Toxic Sub Ctrl-CTC
<input checked="" type="checkbox"/> DWR	Yth/Adlt Corrections
<input type="checkbox"/> OES (Emergency Svcs)	Corrections
<input type="checkbox"/> Bus Transp Hous	Independent Comm
<input type="checkbox"/> Aeronautics	Energy Commission
<input checked="" type="checkbox"/> CHP	<input checked="" type="checkbox"/> NAHC
<input checked="" type="checkbox"/> Caltrans # <u>8</u>	<input checked="" type="checkbox"/> Public Utilities Comm
<input type="checkbox"/> Trans Planning	State Lands Comm
<input type="checkbox"/> Housing & Com Dev	Tahoe Rgl Plan Agency
<input type="checkbox"/> Food & Agriculture	
<input checked="" type="checkbox"/> Health Services	
	Conservancy

10/148  
 CRWQCB REG 6  
 Rec'd OCT 15 2007  
 Mack  
 File

Notice of Completion & Environmental Document Transmittal

Appendix C

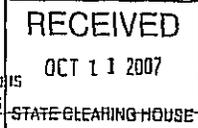
For US Mail: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044  
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH# **2007101050**

Project Title: DESERT VIEW DAIRY LAND TREATMENT UNIT REACTION SYSTEM OPTIMIZATION PROJECT  
 Lead Agency: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Contact Person: CHUCK GUSTIS  
 Mailing Address: 1400 Tenth Street, SAC Phone: 530-542-5400  
 City: VICTORVILLE Zip: 92372 County: SAN BERNARDINO

Project Location:  
 County: SAN BERNARDINO City/Nearest Community: HUNLEY Total Acres: 197  
 Cross Streets: SANTA FE AVE & MOUNTAIN VIEW RD Zip Code: 92347  
 Assessor's Parcel No. 0394-0412 Section: 26 Twp. 10N Range: 3W Base: 66610  
 Within 7 miles: State Hwy: 58 Waterways: ANASCO RIVER  
 Airports: \_\_\_\_\_ Railways: ANNECATS Schools: HUNLEY SCHOOL

Document Type:  
 CEQA:  HCP  Draft EIR  NEPA:  HCP  EA  Draft EIS  FONSI  
 Early Cons.  Supplement to EIR  NEPA:  EA  Draft EIS  FONSI  
 Neg. Dec.  Subsequent EIR  NEPA:  EA  Draft EIS  FONSI  
 No Neg. Dec.  Other: \_\_\_\_\_



Local Action Type:  
 General Plan Update  Master Plan  Use Permit  Coastal Permit  
 General Plan Amendment  Planned Unit Development  Land Division (Subdivision, etc.)  Other: \_\_\_\_\_  
 General Plan Element  Site Plan  Annexation  
 Community Plan  Rezone  Redevelopment  
 Specific Plan  P rezone

Development Type:  
 Residential: Units \_\_\_\_\_ Acres \_\_\_\_\_  Water Facilities: Type \_\_\_\_\_ AIGD \_\_\_\_\_  
 Office: Sq ft \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_  Transportation: Type \_\_\_\_\_  
 Commercial: Sq ft \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_  Mining: Mineral \_\_\_\_\_  
 Industrial: Sq ft \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_  Power: Type \_\_\_\_\_ MW \_\_\_\_\_  
 Educational \_\_\_\_\_  Waste Treatment: Type Chromium AIGD 0.497  
 Recreational \_\_\_\_\_  Hazardous Waste: Type \_\_\_\_\_  
 Other: \_\_\_\_\_

Project Issues That May Have a Significant Or Potentially Significant Impact:  
 Aesthetics/Visual  Economic/Job  Public Services/Facilities  Traffic/Circulation  
 Agricultural Land  Fiscal  Recreation/Parks  Vegetation  
 Air Quality  Flood Plain/Flooding  Schools/Universities  Water Quality  
 Archeological/Historical  Forest Land/Fire Hazard  Septic Systems  Water Supply/Groundwater  
 Biological Resources  Geologic/Seismic  Sewer Capacity  Wetland/Riparian  
 Coastal Zone  Minerals  Soil Erosion/Compaction/Grading  Growth Inducement  
 Drainage/Abstraction  Noise  Solid Waste  Land Use  
 Population/Housing Balance  Toxic/Hazardous  Cumulative Effects  
 Other: \_\_\_\_\_

Present Land Use/Zoning/General Plan Designation: AG-AP

Project Description: (Please use a separate page if necessary) FGFE HAS PROPOSED TO OPTIMIZE THE EXISTING GROUNDWATER EXTRACTION SYSTEM AT THE DESERT VIEW DAIRY TO ENHANCE HYDRAULIC CONTROL OF THE NORTHWESTERN PORTION OF THE CHROMIUM PLUME. THE PROJECT CONSISTS OF ADDING SIX GROUNDWATER EXTRACTION WELLS TO THE EXISTING FOUR-WELL GROUNDWATER SYSTEM CURRENTLY EMPLOYED AT THE DESERT VIEW DAIRY LAND TREATMENT UNIT.

State Clearinghouse Contact: (916) 445-0513

State Review Began: 10-11-2007

SCH COMPLIANCE 11-9-2007

Please note State Clearinghouse Number (SCH#) on all Comments

SCH#: 2007101050

Please forward late comments directly to the Lead Agency

AQMD/APCD 33/26

(Resources: 10/18)

Project Sent to the following State Agencies

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Resources              | <input type="checkbox"/> State/Consumer Svcs              |
| <input type="checkbox"/> Boiling & Waterways               | <input type="checkbox"/> General Services                 |
| <input type="checkbox"/> Coastal Comm                      | <input type="checkbox"/> Cal EPA                          |
| <input type="checkbox"/> Colorado Rvr Bd                   | <input type="checkbox"/> ARB - Airport Projects           |
| <input checked="" type="checkbox"/> Conservation           | <input type="checkbox"/> ARB - Transportation Projects    |
| <input checked="" type="checkbox"/> Fish & Game # <u>6</u> | <input type="checkbox"/> ARB - Major Industrial Projects  |
| <input type="checkbox"/> Delta Protection Comm             | <input type="checkbox"/> Integrated Waste Mgmt Bd         |
| <input type="checkbox"/> Cal Fire                          | <input checked="" type="checkbox"/> SWRCB: Clean Wtr Prog |
| <input type="checkbox"/> Historic Preservation             | <input type="checkbox"/> SWRCB: Wtr Quality               |
| <input checked="" type="checkbox"/> Parks & Rec            | <input checked="" type="checkbox"/> SWRCB: Wtr Rights     |
| <input type="checkbox"/> Reclamation Board                 | <input checked="" type="checkbox"/> Reg. WQCB # <u>WA</u> |
| <input type="checkbox"/> Bny Cons & Dev Comm               | <input checked="" type="checkbox"/> Toxic Sub Ctrl-CTC    |
| <input checked="" type="checkbox"/> DWR                    | <input type="checkbox"/> Yth/Adlt Corrections             |
| <input type="checkbox"/> OES (Emergency Svcs)              | <input type="checkbox"/> Corrections                      |
| <input type="checkbox"/> Bus Transp Hous                   | <input type="checkbox"/> Independent Comm                 |
| <input type="checkbox"/> Aeronautics                       | <input type="checkbox"/> Energy Commission                |
| <input checked="" type="checkbox"/> CHP                    | <input checked="" type="checkbox"/> NAHC                  |
| <input checked="" type="checkbox"/> Caltrans # <u>8</u>    | <input checked="" type="checkbox"/> Public Utilities Comm |
| <input type="checkbox"/> Trans Planning                    | <input type="checkbox"/> State Lands Comm                 |
| <input type="checkbox"/> Housing & Com Dev                 | <input type="checkbox"/> Tahoe Rgl Plan Agency            |
| <input type="checkbox"/> Food & Agriculture                |   |
| <input checked="" type="checkbox"/> Health Services        |   |
|  | Conservancy   |



California Regional Water Quality Control Board  
Lahontan Region



Linda S. Adams  
Secretary for  
Environmental Protection

Victorville Office  
14440 Civic Drive, Suite 200, Victorville, California 92392  
(760) 241-6583 • Fax (760) 241-7308  
<http://www.waterboards.ca.gov/lahontan>

Arnold Schwarzenegger  
Governor

2007101050

October 10, 2007

WDID No. 6B360303001

State Clearing House  
P.O. Box 3044  
Sacramento, CA 95812-3044

**TRANSMITTAL OF MITIGATED NEGATIVE DECLARATION FOR DESERT VIEW  
DAIRY LAND TREATMENT UNIT EXTRACTION SYSTEM OPTIMIZATION PROJECT,  
PACIFIC GAS AND ELECTRIC (PG&E) COMPRESSOR STATION, HINKLEY, SAN  
BERNARDINO COUNTY**

Please accept and distribute the enclosed Mitigated Negative Declaration for the Desert View Dairy Land Treatment Unit Extraction System Optimization Project operated by the PG&E Company in Hinkley. The document has been prepared by the California Regional Water Quality Control Board (Water Board) staff to evaluate potential environmental impacts from the proposed project. The document will be considered for adoption with amended waste discharge requirements by the Water Board at a public hearing on November 28 and 29, 2007. A tentative Water Board resolution adopting the Mitigated Negative Declaration is enclosed. We have also enclosed a Notice of Completion form for your office.

If you have any questions regarding this matter, please contact Joe Koutsky at (760) 241-7391 or me at (760) 241-7325.

Sincerely,

Michael Plaziak  
Supervising Engineering Geologist  
South Lahontan Basin Division

Enclosures: Mitigated Negative Declaration (15 copies)  
Notice of Completion  
Mailing List

cc: Mailing List

jk/rp PGE Optimization Project/pge mitigated neg dec covl/r

## ENVIRONMENTAL CHECKLIST AND MITIGATED NEGATIVE DECLARATION

This Environmental Checklist and Mitigated Negative Declaration have been prepared in accordance with the California Public Resources Code, section 21080 and California Code of Regulations (CCR), title 14, sections 15070 and 15071. A Mitigated Negative Declaration for this project was adopted on July 27, 2004 by the California Regional Water Quality Control Board, Lahontan Region, under Board Order No. R6V-2004-0034.

1. Project title:  
*Desert View Dairy Land Treatment Unit Extraction System Optimization Project (the "Optimization Project"), Hinkley, San Bernardino County, California*
2. Lead agency name and address:  
*California Regional Water Quality Control Board, Lahontan Region  
14440 Civic Drive, Suite 200, Victorville, San Bernardino County, California 92392*
3. Contact person and phone number:  
*Chuck Curtis, Water Board Project Manager  
Telephone: 530-542-5460*
4. Project location:  
*PG&E Owned Properties (APN 0494-041-22, APN 0494-221-47, APN 0494-221-51, APN 0494-221-13) and the unimproved San Bernardino County right-of-way near the intersection of Santa Fe Avenue and Mountain View Road (APN 0494-221-00), Hinkley, San Bernardino County, California 92347*
5. Project sponsor's name and address:  
*Pacific Gas and Electric Company (PG&E), 77 Beale Street, Mail Code B16A, San Francisco, California 94105-1814*
6. General plan designation: *AG-AP (Agricultural, Agricultural Preserve) and RL (Rural Living)*
7. Zoning: *AG-AP (Agricultural, Agricultural Preserve) and RL (Rural Living)*
8. Description of project:

*The Desert View Dairy Land (DVD) Treatment Unit (LTU) groundwater extraction system is designed to provide containment of the northern portions of the Hinkley groundwater chromium plume. The Pacific Gas and Electric Company (PG&E) plans to optimize the existing groundwater extraction system to enhance hydraulic control of the northwestern portion of the plume. The proposed Optimization Project ("Project") consists of adding six groundwater extraction wells to the existing four-well groundwater extraction system currently employed at the DVD LTU. This combined ten-well extraction system will extract groundwater up to an annual average of 345 gallons per minute (gpm) and the maximum volume of discharge to the LTU will not exceed 0.497 million gallons in a 24-hour period (MGD) as currently specified in Waste Discharge Requirements (WDRs) for the Interim Plume Containment and Hexavalent Chromium Treatment Project under Board Order No. R6V-2004-0034.*

*The existing DVD LTU extraction system consists of four wells (EX-01, EX-02, EX-03, and EX-4). As required by the WDR, currently all extraction wells are located on the Desert View Dairy. The Optimization Project will combine groundwater extracted from the four wells on the DVD with six extraction wells located on PG&E-owned*

property to the southwest of the DVD (for convenience, referred to herein as the "non-DVD wells"): EX-05, EX-07, EX-15, EX-16, EX-17, EX-20). Each of the non-DVD wells is six inches in diameter, and the installed total depths range from 110 to 130 feet below ground surface. The Optimization Project will require the construction of approximately 8000 feet of conveyance piping, the installation of two new power "drops", fencing, and the installation of associated wellhead electrical, telemetry, and control equipment. Approximately 30 percent of the total annual average 345 gpm flow is expected to come from the non-DVD wells (EX-05, EX-07, EX-15, EX-16, EX-17, EX-20), with the remaining 70 percent being pumped from the existing wells on the DVD. The actual amount of water pumped from each well may be adjusted over time in order to optimize plume containment.

The locations of the wells and extraction system components (including proposed components) are shown in Figure 1. The non-DVD extraction wells proposed for use in the optimized system are located on PG&E owned property (Assessors Parcel Number (APN) 0494-041-22) located north of State Highway 58, west of Mountain View Road, and south of Santa Fe Avenue and the Burlington Northern Santa Fe (BNSF) Railroad right-of-way in Hinkley, California.

Portions of the conveyance piping associated with the optimized system will be located on each of the following five parcels:

- APN 0494-041-22 (as described above);
- PG&E owned property (APN 0494-221-47) located north of Highway 58, east of Mountain View Road, and south of Santa Fe Avenue and the BNSF Railroad right-of-way in Hinkley, California;
- The former Ranch Land Treatment Unit property (APN 0494-221-51) owned by PG&E, located north of Highway 58, between Mountain View Road and Summerset Road, and south of Santa Fe Avenue and the BNSF Railroad right-of-way in Hinkley, California;
- The unimproved San Bernardino County right-of-way (APN 0494-221-00) located north of Santa Fe Avenue and running east from Mountain View Road in Hinkley, California; and,
- The DVD LTU property (APN 0494-221-13), owned by PG&E, located north of Santa Fe Avenue and east of Mountain View Road in Hinkley, California.

With the exception of the County right-of-way, all of the properties on which facilities proposed for the optimized system are/will be located are owned by PG&E.

9. Surrounding land uses and setting:

The local setting is agricultural, dairy, and rural residential. All portions of the optimized system will be located on property owned by PG&E.

10. Other public agencies whose approval are required (e.g., permits, financing approval, or participation agreement).

Permits will be obtained for piping and electrical installation, as required, from the

*County of San Bernardino Land Use Services Department prior to any construction activities. An encroachment permit will be obtained from the County of San Bernardino Department of Public Works prior to the installation of the Mountain View Road pipe crossing. A notice of non-objection from the County of San Bernardino Department of Public Works will be obtained for any work within the unimproved County right-of-way.*

*An air quality permit to construct or permit to operate is not required. PG&E plans to prepare a Storm Water Pollution Prevention Plan for Construction Activities and to submit a Notice of Intent to discharge storm water to the State Water Resources Control Board for coverage under the General Permit.*

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Aesthetics                    | <input type="checkbox"/> Agriculture Resources              | <input type="checkbox"/> Air Quality            |
| <input type="checkbox"/> Biological Resources          | <input type="checkbox"/> Cultural Resources                 | <input type="checkbox"/> Geology /Soils         |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology / Water Quality          | <input type="checkbox"/> Land Use / Planning    |
| <input type="checkbox"/> Mineral Resources             | <input type="checkbox"/> Noise                              | <input type="checkbox"/> Population / Housing   |
| <input type="checkbox"/> Public Services               | <input type="checkbox"/> Recreation                         | <input type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Utilities / Service Systems   | <input type="checkbox"/> Mandatory Findings of Significance |   |

**DETERMINATION: (To be completed by the Lead Agency)**

On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

- a) Earlier Analysis Used. Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
  - 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
  - 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
  - 9) The explanation of each issue should identify:
    - a) the significance criteria or threshold, if any, used to evaluate each question; and
    - b) the mitigation measure identified, if any, to reduce the impact to less than significance.

07-0015

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<b>I. AESTHETICS</b>				
Would the project:				
<b>a)</b> Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>b)</b> Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>c)</b> Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>d)</b> Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Significance – No Impact.</b>				
<i>The Optimization Project is not located within, or in the vicinity of, a scenic vista or any designated scenic resources.</i>				
<i>Extraction from additional existing wells as proposed in the Optimization Project description will have no significant impact on aesthetics. Some of the extraction well head equipment and surrounding security fencing will be visible. The extraction well equipment and fencing is consistent with the visual character of the existing agricultural land use in the area. A minor amount of glare could occur with metal components of the aboveground equipment. Due to the size and remote location of these facilities, glare impacts would be less than significant.</i>				
<i>All extraction wells to be used in the Optimization Project are located in below-ground vaults, with only the electrical panels and radio transmitters to be installed above grade. The extracted groundwater will be delivered to the DVD LTU via buried conveyance pipelines. The new extraction wells will have chain-link fencing installed around them for the security of the wells, pumps, and controls. The fences would be a maximum of 12 feet by 20 feet by 6 feet high, and would be topped with 3-strand barbed wire. The fencing may have privacy slats installed to hide the equipment inside.</i>				
<b>Mitigation Measures:</b> <i>None Required.</i>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>II. AGRICULTURE RESOURCES:</b></p> <p>In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland.</p> <p>Would the project:</p>				
<p><b>a)</b> Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>b)</b> Conflict with existing zoning for agricultural use, or a Williamson Act contract?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>c)</b> Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p>				
<p><i>Extraction from additional existing wells as proposed in the Optimization Project description will have no impact on existing agricultural operations.</i></p>				
<p><b>Mitigation Measures</b></p>				
<p><i>None required.</i></p>				
<p><b>III. AIR QUALITY</b></p>				
<p>Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.</p> <p>Would the project:</p>				
<p><b>a)</b> Conflict with or obstruct implementation of the applicable air quality plan?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<b>b)</b> Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>c)</b> Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Significance – Less than Significant with Mitigation Incorporation</b></p> <p><i>The United States Environmental Protection Agency (USEPA) has designated particulate matter with a diameter less than or equal to 10 microns (PM10) as a "moderate non-attainment" criteria pollutant in the region. In response, the Mojave Desert Air Quality Management District (MDAQMD) has prepared the Federal Particulate Matter (PM10) Attainment Plan to address PM10 emissions. The PM10 Attainment Plan includes strategies for reducing emissions, including MDAQMD Rule 403.2, which provides specific requirements applicable to construction activities.</i></p> <p><i>Optimization Project construction activities may result in short-term emissions of PM10—primarily dust—during conveyance piping trench construction, during the provision of electric power and during wellhead equipment installation. However, the temporary increase in PM10 emissions will be limited to an approximate 8-week to 12-week construction period. Further, construction activities will comply with Rule 403.2, Fugitive Dust Control for the Mojave Desert Planning Area, which provides mitigation measures that will minimize PM10 emissions during construction activities (e.g., periodic watering of disturbed surfaces) at the site.</i></p> <p><b>Mitigation Measures</b></p> <p><i>As a precaution, all non-critical dust-generating activities will be restricted to periods of low wind (wind speed less than 25 miles per hour, as monitored onsite or from local information representative of the site) unless engineering control measures (water spray) can adequately control the dust emissions. Vehicle speeds on unpaved roads will be limited to a maximum speed of 25 miles per hour to minimize vehicle-related dust emissions; speed-limit signs will be posted.</i></p>				
<b>d)</b> Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>e)</b> Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Significance – No Impact.</b></p> <p><i>No sensitive receptors (i.e., schools, hospitals, etc.) are located in the immediate vicinity of the project site. Hinkley Elementary/Middle School is located approximately 1 mile northwest of the project site. The Hinkley Senior Center is located at 35997 Mountain View Road, approximately 1.3 miles southwest of the project site. The nearest residential development in the community of Hinkley is located approximately 0.5 mile northwest of the project site.</i></p> <p><i>The nearest residence to the project site is located on APN 0494-201-35, approximately 1000 feet southwest of the site. The nominal airborne emissions of dust that may occur during construction and operation activities will be generated a sufficient distance from any sensitive receptors so as not to affect those receptors. The Optimization Project construction and operation will not result in the generation of any perceptible odors.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
<p><b>IV. BIOLOGICAL RESOURCES</b></p> <p>Would the project:</p>				
<p><b>a)</b> Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Significance – Less Than Significant Impact</b></p> <p><i>The Optimization Project is not expected to result in any activity that would have an adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species.</i></p> <p><i>A review of the California Natural Diversity Database (CNDDDB) indicates the potential presence of the desert tortoise in the project vicinity. However, the site does not fall within the United States Fish and Wildlife Service critical habitat designation for the desert tortoise. There are no CNDDDB records related to the Mojave ground squirrel within the project vicinity. No other sensitive terrestrial species are documented at, or in the vicinity of, the project site.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>Field reconnaissance surveys of the various parcels within the project site were conducted in July 2006, March 2005, October 2003, and August 2002. The objectives of the surveys were to characterize habitat at the site regarding the presence/absence of suitable habitat for sensitive species, and to document all plant and wildlife observed during the survey. No federal or state special-status plant or wildlife species were observed within the project area (CH2M HILL 2002).</i></p> <p><i>Due to previous site disturbances and lack of any natural habitat, the Optimization Project site does not provide appropriate conditions for establishment of special-status plant species, nor is the project site considered suitable habitat for the desert tortoise or the Mojave ground squirrel.</i></p> <p><b>Mitigation Measures</b></p> <p><i>Project implementation is not anticipated to affect any sensitive plant or wildlife species. However, as a precaution, the following avoidance measures will be implemented during construction activities and operation of the optimized extraction system:</i></p> <ul style="list-style-type: none"> <li><i>• Construction activities (e.g., trenching and well equipment installation) will be located to the extent possible in presently-disturbed areas, such as along access roads. To prevent construction activities from potentially affecting any sensitive plant or wildlife species, a biologist will help select the exact conveyance pipe locations.</i></li> <li><i>• Environmental awareness training for all construction personnel in identifying sensitive biological resources will be provided using PG&amp;E's current training program. All staff will be trained to recognize and respond appropriately in the unlikely event that a sensitive species, such as a desert tortoise, is sighted. Avoidance measures designed to minimize project impacts during the construction and operation phase will be identified. Workers will be required to report the occurrence of any special-status species observed on the project site to the project biologist, who would then implement species protection measures.</i></li> <li><i>• Nesting birds (occurring generally from February to August for most birds) that are protected under the Migratory Bird Treaty Act will be avoided. All construction activity within 300 feet of active nesting areas will be prohibited until the nesting pair/young have vacated the nests.</i></li> <li><i>• Temporary or permanent fencing of selected areas will be installed as requested by the biologist observer; typically, such measures would be implemented when burrows are observed in the immediate area or as an avoidance measure for the Desert Tortoise.</i></li> <li><i>• Intentional killing or collection of either plant or wildlife at construction sites and surrounding areas will be prohibited.</i></li> </ul>				

07-0020

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<ul style="list-style-type: none"> <li>• All on-site vehicle traffic will adhere to a speed limit of 25 miles per hour during construction and maintenance to ensure avoidance of impacts to sensitive biological resources on access roads.</li> <li>• All construction vehicles and equipment will be periodically checked to ensure that they are in proper working condition and that there is no potential for fugitive emissions of oil or other hazardous products.</li> <li>• Optimization Project implementation will have a less-than-significant impact on any sensitive plant or wildlife species. No mitigation measures are required. The avoidance measures described above will be implemented during construction activities and operation of the optimized extraction system.</li> </ul>				
<p><b>b)</b> Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>c)</b> Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The Mojave River is located approximately 2.5 miles south of the Optimization Project site. The project site and immediate surrounding areas do not include any waters of the United States, including wetlands. There are no natural drainage features, such as creeks or streams, supporting riparian habitat. No impacts to either the United States Army Corps of Engineers jurisdictional areas or the California Department of Fish and Game (CDFG) jurisdictional areas will occur from the Optimization Project.</i></p> <p><i>The Optimization Project will not result in any activity near or within the waters of the United States and will not result in discharge of dredge or fill material into the waters of the United States. Therefore, the Optimization Project is not anticipated to require a Clean Water Act (CWA) Section 404 permit from the Corps or CWA Section 401 Water Quality Certification from the Lahontan Regional Water Quality Control Board. The Optimization Project does not propose to alter any streambed or bank and, therefore, will not require coordination with the CDFG relative to a Section 1601 Streambed Alteration Agreement.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p><b>d)</b> Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>Because of the limited development associated with the Optimization Project site and the existing agricultural and related onsite development, no impact to wildlife movement or wildlife nursery sites will result from Optimization Project implementation.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p><b>e)</b> Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>f)</b> Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The Optimization Project site lies within the County's Biological Resources Overlay, which indicates the potential presence of the desert tortoise and Mojave ground squirrel. However, these species were not observed during the July 2006, March 2005, October 2003, and August 2002 field reconnaissance surveys and will not be affected by Optimization Project implementation. Therefore, no conflict with the County plans or policies will result.</i></p> <p><i>The Optimization Project site is within the United States Department of the Interior Bureau of Land Management (BLM) West Mojave (WEMO) Plan area, Map Number 45. The WEMO Plan was adopted through a Record of Decision (ROD) by BLM in March 2006. For purposes of the ROD, WEMO refers solely to BLM's amendment of the California Desert Conservation Area (CDCA) Plan and does not include any actions proposed by State and local governments</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>for non-federal lands, except when specifically identified. The proposed action does not conflict with any state or local habitat conservation plan or conservation strategy including WEMO.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
<p><b>V. CULTURAL RESOURCES</b> Would the project:</p>				
<p>a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>d) Disturb any human remains, including those interred outside of formal cemeteries?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>Based on a review of the project vicinity provided by County of San Bernardino staff (S. Hall 2003), the Optimization Project site does not fall within the County's cultural or paleontologic resource overlay maps. In addition, a California Historic Resources Information System (CHRIS) report was conducted of the project area and no potential cultural resources were identified onsite.</i></p> <p><i>The Optimization Project site is located on areas previously disturbed by agricultural activity. Minor grading activities will be required for groundwater extraction well head equipment installation and conveyance pipe trenching. These activities will occur, as much as possible, on lands previously used for agricultural activities. No impact to historic, archaeological, or paleontological resources is anticipated to result from Optimization Project implementation.</i></p> <p><i>As a precaution, if any paleontological resource or human remains are identified during extraction wells development or conveyance piping trenching, then construction activities would be halted, and a qualified archeologist would be consulted.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<b>Mitigation Measures</b> <i>None Required.</i>				
<b>VI. GEOLOGY AND SOILS</b> Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Significance – No Impact.</b></p> <p><i>The Southern California region is a tectonically-active area that is subject to strong ground shaking due to the numerous earthquake fault zones in the area. The nearest fault to the Optimization Project site is the Lockhart Fault, located approximately 0.7 mile from the site. No known faults traverse the project site. The Optimization Project design conforms to the applicable requirements of the County Uniform Building Code that specify design parameters to reduce seismic and other potential geologic hazards to acceptable levels.</i></p> <p><i>The Optimization Project facilities are designed to pump and convey water and will not result in erosion. A small amount of topsoil may be graded/moved onsite for well head equipment installation. No additional wastewater facilities will be required for project implementation.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
<p><b>VII. HAZARDS AND HAZARDOUS MATERIALS</b></p>				
<p>Would the project:</p>				
<p>a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Significance – Less Than Significant Impact.</b></p> <p><i>As with the current extraction system, detectable concentrations of hexavalent chromium and total chromium are expected to occur in the groundwater to be extracted under the optimized extraction system. Total chromium concentrations in the combined flow from all extraction wells are expected to be below the California maximum contaminant level (MCL) of 50 micrograms per liter (µg/L), based on test results of the proposed extraction wells and on plume geometry. However, total chromium concentrations in individual extraction wells may exceed the MCL.</i></p> <p><i>Buried conveyance piping will transport the extracted groundwater. In the event of damage to extraction wells or conveyance piping, pressure sensors would identify a problem and signal the system to automatically shut down. As a result there would be no significant hazards to the public or the environment.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Mitigation Measures</b></p> <p><i>The groundwater extraction and conveyance system is fitted with appropriate sensors and alarms to promptly identify system upset and minimize spills or leaks of irrigation water that may contain chromium.</i></p>				
<p>c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

07-0026

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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**Significance – No Impact.**

The nearest school to the Optimization Project site is the Hinkley Elementary/Middle School, located approximately 1 mile northwest of the project site at 37600 Hinkley Road. The Optimization Project site is located approximately 1 mile north of the Hinkley Compressor Station source area. The Optimization Project site does not fall within an existing airport land use plan and is not within 2 miles of a public or private airport.

Extraction from additional existing wells as proposed in the Optimization Project description will not affect implementation of any emergency response or emergency evacuation plans for the site and vicinity. The Optimization Project site falls within an area of previous agricultural operations, and is surrounded by fallow agricultural fields and/or irrigated farmland. There is no potential for impacts related to wildland fires.

**Mitigation Measures**

None Required.

**VIII. HYDROLOGY AND WATER QUALITY**

Would the project:

- a) Violate any water quality standards or waste discharge requirements?

**Significance – Less than Significant.**

**Effects on quality of water applied to DVD LTU**

The Optimization Project would include pumping from six additional wells located to the south and west of the Desert View Dairy Land Treatment Unit (DVD LTU). The proposed cumulative extraction from the six proposed Project extraction wells and the four existing wells located on the DVD LTU will result in a quality of applied water to the DVD LTU that will remain in compliance with discharge specifications of the existing Waste Discharge Requirements under Board Order No. R6V-2004-0034. The subsurface drip irrigation of the extracted groundwater from the ten wells to the DVD LTU will have a less than significant impact on the groundwater quality beneath the DVD.

The groundwater extraction system currently authorized by the waste discharge requirements consists of wells EX-01, EX-02, EX-03, and EX-04 which are all located on the DVD LTU. The Optimization Project would combine pumping from the four existing DVD wells with groundwater extracted from 6 additional wells located off of the DVD property to the south and west. As shown in the table below, the nitrate and total dissolved solids (TDS) concentrations in the DVD wells are generally higher than the concentrations for these constituents in the non-DVD wells. Cr(VI) concentrations in the non-DVD wells range higher than those in the DVD wells, but they are well within the range of anticipated concentrations (1 µg/L to 295 µg/L) specified in the WDR for application of water on the DVD LTU. The addition of pumping from the non-DVD wells is expected to decrease the

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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*nitrate and TDS in applied water at the DVD. Because there is more Cr(VI) in the non-DVD wells, pumping from these wells will result in a slight increase the rate at which Cr(VI) is being removed from the aquifer. Extraction from additional existing wells as proposed in the Optimization Project description will result in a quality of applied water to the DVD LTU that will remain in compliance with discharge limitations established under the existing DVD LTU Waste Discharge Requirements.*

*Within the capture zone of the groundwater extraction system on the DVD LTU, nitrate (nitrate-N) concentrations range from less than 0.1 mg/L to a maximum of 62.2 mg/L. Total dissolved solids (TDS) concentrations for the same area range from 997 mg/L to a maximum of 3,884 mg/L. Total chromium [Cr(T)] concentrations in the groundwater range from 0.001 mg/L to 0.295 mg/L (Source: 2004, Environmental Checklist PG&E Interim Plume Containment and Hexavalent Chromium Treatment Project at the Desert View Dairy). Based on on-going monitoring of groundwater monitoring wells on the DVD LTU, the concentrations of nitrate-N in groundwater range from less than the laboratory reporting limit of 0.2 mg/L to 23.4 mg/L. TDS concentrations in the same wells range from 259 mg/L to 4,410 mg/L. Cr(T) concentrations in the groundwater range from less than the laboratory reporting limit of 0.001 mg/L to 0.180 mg/L. Hexavalent chromium [Cr(VI)] concentrations range from less than the laboratory reporting limit of 0.0002 mg/L to 0.163 mg/L (Source: July 2007, Second Quarterly Monitoring Report 2007 Desert View Dairy Land Treatment Unit Hinkley). The nitrate-N and TDS concentrations in groundwater of the Project extraction wells are less than the concentrations of these constituents in the DVD wells, as shown below in Table VIII, "Most Recent Concentrations in Extraction Wells." Cr(VI) concentrations in the proposed Project extraction wells range higher than those in the DVD LTU wells, but they are within the concentration range (1 µg/L to 295 µg/L) for application of water on the DVD LTU specified in the existing Waste Discharge Requirements under Board Order No. R6V-2004-0034. The addition of pumping from the proposed Project extraction wells is expected to decrease the nitrate and TDS in applied water at the DVD LTU. Pumping from the proposed Project extraction wells will result in a slight increase the rate at which Cr(VI) is being removed from the aquifer because there is more Cr(VI) in the proposed Project extraction wells. Extraction from additional existing wells as proposed in the Optimization Project description will result in a quality of applied water to the DVD LTU that will remain in compliance with the discharge specifications established under the existing Waste Discharge Requirements. (Source: July 27, 2004, Water Board, Board Order No. R6V-2004-0034, "Pacific Gas And Electric Company Interim Plume Containment and Hexavalent Chromium Treatment Project.")*

*During operation, it is anticipated that approximately 30 percent of the water pumped will be provided by the non-DVD wells and 70 percent will come from wells on the DVD.*

Pumping Well	Most Recent Concentrations in Extraction Wells		
	Nitrate (N) (mg/L) <sup>(1)</sup>	CrVI (µg/L) <sup>(1)</sup>	TDS (mg/L) <sup>(1)</sup>

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Existing DVD Wells	EX-01	11.9	19.8	1100	
	EX-02	17	16.5	2170	
	EX-03	17.2	34.0	1810	
	EX-04	17.6	24.5	2700	
Existing Non-DVD Wells Proposed for Optimization Project	EX-05	6.05	<0.2	868	
	EX-07	0.45	<0.2	381	
	EX-15	14	40.5	1804	
	EX-16	13.6	57	1801	
	EX-17	<0.2	<0.2	257	
	EX-20 <sup>2)</sup>	13.8	48.8	1802.5	

(1) Water quality values are from the February 2007 sampling event or most recent prior sampling event for wells not sampled in February 2007, with the exception of data for wells EX-03 and EX-04. Data for wells EX-03 and EX-04 are from the June 2007 sampling.

(2) Recent water quality data are not available for this well. Values are the average results for EX-15 and EX-16, which are located nearby.

*The DVD optimization wells are located in proximity to areas of the plume that may in the future be remediated through in-situ reduction methods permitted by the Regional Board. In-situ treatment would include injection of a carbon source into the aquifer, which is expected to result in a localized and temporary increase in the concentration of dissolved manganese (Mn<sup>2+</sup>) and ferrous iron (Fe<sup>2+</sup>). Manganese and iron are naturally present in the aquifer soils, and are partially dissolved into groundwater when oxygen is depleted through the in-situ reduction process. Dissolved Mn and Fe could be present at concentrations above background levels in groundwater pumped from one or more of the DVD optimization wells. Once this groundwater is blended with the groundwater pumped from other DVD extraction wells, the concentrations of dissolved Mn and Fe applied to the DVD LTU are expected to be relatively low - typically less than the secondary drinking water standard of 50 µg/L and 300 µg/L, respectively (which were both established for aesthetics; there are no primary drinking water standard for Mn or Fe).*

*The low concentrations of dissolved Mn and Fe in the water applied to the DVD LTU will quickly oxidize in the soil, precipitate, and become part of the soil matrix. The Mn and Fe discharged to the LTU will not leach to groundwater. Mn and Fe concentrations in shallow soil at the DVD LTU currently range from approximately one (1) to 10 mg/kg. The change in Mn and Fe soil concentrations will be minimal, if measurable, and considerably below USEPA Region 9 Preliminary Remedial Goals (PRG).*

*Considering there is no potential impact to human health or groundwater quality, the amended Waste Discharge Requirements for the DVD LTU allow for the discharge of dissolved Mn and Fe to the subsurface irrigation system.*

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<b>Mitigation Measures:</b> <i>None Required</i>				
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Significance – Less Than Significant with Mitigation Incorporation.</b>				
<p><b>Hydraulic effects of pumping from non-DVD wells</b></p> <p><b>Groundwater Basin Effects</b>  <i>The use of groundwater resources at the Project site is subject to the 1996 stipulated agreement for groundwater in the Mojave Basin, which allocated the amount of groundwater that can be extracted from below the Project site. The total PG&amp;E free production water allowance is 1,902 acre-feet per year (AFY) per year for 2006 and 2007. Groundwater extraction rates to achieve plume boundary control and remediation will be maintained within the allocated groundwater rights, or additional water rights will be obtained.</i></p> <p><b>Localized Effects</b>  <i>A groundwater model was used to evaluate the incremental increase in drawdown that would result from implementation of the Optimization Project (pumping 345 gpm with approximately 70 percent from DVD, and 30 percent from non-DVD wells). The baseline for this comparison was the projected drawdown associated with current conditions, i.e., pumping 345 gpm from the four DVD extraction wells. Figure 2, "Projected Change in Drawdown from Baseline Conditions after 50 Years," shows the changes in water levels that are estimated to occur over</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>the next 50 years when comparing the existing project (pumping 345 gpm from the four DVD extraction wells) to the proposed Optimization Project (pumping 345 gpm using the four DVD extraction wells and the additional wells in the Optimization Project). Figure 2 also shows the locations of known active private supply wells in the Project area, where up to two feet of additional drawdown is estimated to occur.</i></p> <p><i>The areas where additional drawdown (up to five feet) is predicted to occur are south, southeast, southwest, and west of the DVD LTU. Areas of highest predicted drawdown (all of the five-foot drawdown area, and most of the 4-foot drawdown area) are located on PG&amp;E property. The attached Table 1 is a summary of the available information for private supply wells, where up to two additional feet of drawdown may occur. The model accounts for the variability in boundary control pumping rates throughout the year, including the peak pumping conditions predicted to occur during the summer.</i></p> <p><i>PG&amp;E has reviewed the available data from the California Department of Water Resources for private wells in the area, to assess potential impacts to the private domestic wells from the estimated changes in the cone of depression to be created by the DVD optimization pumping. Review of this data shows that most domestic wells in this area are drilled into bedrock. The depths to the top of the well screens range from 60 to 105 feet below ground surface (bgs). Well screen lengths range from 20 feet to 128 feet. The water level in this area is approximately 80 feet bgs.</i></p> <p><i>The effect on these private wells of lowering the groundwater level by up to three feet - as proposed in the DVD Optimization Project - depends on the well depth, screened interval, cone of depression caused by the operation of each well, pump depth, and hours of operation (some may be used to fill a domestic supply tank during the night). Well depths, screen intervals and initial water levels are known for some of the wells; however, these details along with the actual performance and operation characteristics are not known for many of the wells. Based on the existing information, the proposed DVD Optimization project is not anticipated to cause an adverse effect on private supply wells as a result of water level changes. Water level monitoring will ensure that water level changes are consistent with the model estimations.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Mitigation Measures</b></p> <p><i>PG&amp;E will implement the following actions during operation of the extraction well system:</i></p> <ul style="list-style-type: none"> <li><i>(1) Aquifer water level monitoring, to determine the actual cone of depression created by pumping. Water levels will be compared to trigger levels provided in Table 1, which were developed based on the model estimations. Monitoring wells will be located between the extraction wells and the domestic wells. Water level monitoring will provide early warning of potential unforeseen impacts on local wells.</i></li> <li><i>(2) Water quality monitoring in the monitoring well network, to evaluate plume conditions.</i></li> <li><i>(3) Adjustment of the pumping rates (increase or decrease,) to maintain a cone of depression that optimizes plume boundary control while minimizing the aquifer drawdown impact on nearby wells.</i></li> <li><i>(4) If needed and to the extent practicable, adjustment of pumping schedules to reduce impacts when residents are pumping to re-supply their domestic water tanks.</i></li> </ul> <p><b>Contingency Measures</b></p> <p><i>As a contingency, where water level monitoring shows that drawdown due to the DVD optimization project is adversely affecting the functionality of one or more local wells (see Figure 2), PG&amp;E will perform one or more of the following actions:</i></p> <ul style="list-style-type: none"> <li><i>(1) Lowering the pump in a well so as to be below the groundwater drawdown effects;</i></li> <li><i>(2) Installing a larger pump to overcome the increased hydraulic discharge head;</i></li> <li><i>(3) Replacing wells that are too shallow with wells that either extend further into the upper aquifer or draw water from the lower aquifer;</i></li> <li><i>(4) Providing residents with alternative water supplies such as bottled water and/or piped or trucked water;</i></li> <li><i>(5) Relocating residents to a location outside the drawdown-affected area.</i></li> </ul>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The proposed additional pumping will have no effect on drainage patterns or on the quality of stormwater runoff.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>Extraction from additional existing wells as proposed in the Optimization Project description will have no negative effects on water quality. As noted previously, the TDS and nitrate concentrations in water applied to the DVD LTU are expected to decrease as a result of pumping from non-DVD wells.</i></p> <p><b>Mitigation Measures</b> <i>None required</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The nearest surface water body to the Optimization Project site is the Mojave River, located approximately 2.5 miles to the south. The project site is not located within a 100-year floodplain and will not be subject to flood-related hazards. The site is not subject to risk from seiche, tsunami, or mudflows.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p><b>IX. LAND USE AND PLANNING</b> Would the project:</p>				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Significance – No Impact</b>				
<p><i>The nearest residential community is within the town of Hinkley, located approximately 0.5 mile west of the Optimization Project site.</i></p>				
<p><i>Depending on the parcel, the project site is designated Agricultural or Rural Living by the County General Plan. According to San Bernardino County, the Optimization Project will not require a Temporary or Conditional Use Permit for the extraction wells and associated conveyance piping and wellhead equipment. The optimized extraction well network operations are consistent with existing agricultural uses in the area. No conflict with the County General Plan or zoning ordinances will result from Optimization Project implementation.</i></p>				
<p><i>The Optimization Project site is within the United States Department of the Interior Bureau of Land Management (BLM) West Mojave (WEMO) Plan area, Map Number 45. The WEMO Plan was adopted through a Record of Decision (ROD) by BLM in March 2006. For purposes of the ROD, WEMO refers solely to BLM's amendment of the California Desert Conservation Area (CDCA) Plan and does not include any actions proposed by State and local governments for non-federal lands, except when specifically identified. The proposed action does not conflict with any state or local habitat conservation plan or conservation strategy including WEMO.</i></p>				
<p><b>Mitigation Measures</b> <i>None required.</i></p>				
<b>X. MINERAL RESOURCES</b>				
Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Significance – No Impact</b>				
<p><i>The Optimization Project site is not located within a delineated mineral resource zone (i.e., the project site is not included on the County of San Bernardino Mineral Resource Zone Overlay). The Optimization Project site is located on fallow land previously used for agriculture. No loss of, or interference with, mineral resource operations will result from</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>project implementation.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
<p><b>XI. NOISE</b> Would the project result in:</p>				
<p>a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance - No Impact</b></p> <p><i>The County of San Bernardino's General Plan Noise Element standard for residential development is 60 dB exterior noise level. Audible noise levels during Optimization Project operations will be limited to the immediate vicinity of the optimized groundwater extraction system. The nearest residence to the Optimization Project site, on APN 0494-201-35, is located approximately 1000 feet southwest of the project site. Noise generated by the Optimization Project will be attenuated by the distance to the nearest receptor; therefore, no impacts are anticipated.</i></p> <p><i>Power to the extraction well pumps will be provided from the electrical grid, and no permanent noise-producing generators will be required; therefore, no noise impacts are anticipated.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p>d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Significance – Less than Significant Impact.</b></p> <p><i>Optimization Project construction activities will temporarily increase noise levels during extraction wellhead equipment installation and conveyance piping trenching. However, construction noise will be short-term, limited to the approximately 8-week to 12-week construction period. Construction activities will be limited to normal daytime business hours.</i></p> <p><i>Construction and operational noise will be substantially attenuated by the approximately 1000-foot distance from the project site to the nearest residential receptor, and the approximately 0.5 mile distance from the project site to the community of Hinkley.</i></p> <p><b>Mitigation Measures</b> <i>None Required</i></p>				
<p>e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The Optimization Project site is not located within an airport land use plan and is not located within 2 miles of a public airport. There are no private airstrips in the vicinity of the project site that will be affected by project implementation.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p><b>XII. POPULATION AND HOUSING</b> Would the project:</p>				
<p>a) Induce substantial population growth in an area, either directly (for example, by proposing new homes</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>Optimization Project implementation does not involve the construction of new residential or commercial development or infrastructure that could support additional population growth in the project area.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p><b>XIII. PUBLIC SERVICES</b></p>				
<p>a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:</p>				
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – Less than Significant.</b></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>Optimization Project implementation will not require the expansion of existing emergency services and will not affect current response times.</i></p> <p><i>Optimization Project operations will require less than the equivalent of one full-time operator and no population growth will result from the project. Therefore, no impact to police, schools, parks, or other public facilities is anticipated.</i></p> <p><b>Mitigation Measures</b> <i>None Required</i></p>				
<p><b>XIV. RECREATION</b></p>				
<p>a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The Optimization Project will not result in direct or indirect population growth; therefore, project implementation will not increase the use or demand for recreational facilities. The Optimization Project does not include the construction or expansion of recreational facilities.</i></p> <p><b>Mitigation Measures</b> <i>None Required.</i></p>				
<p><b>XV. TRANSPORTATION/TRAFFIC</b> Would the project:</p>				
<p>a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><b>Significance – Less Than Significant Impact.</b></p> <p><i>The estimated 8-week to 12-week construction time period for the additional extraction well head equipment and buried conveyance pipeline will result in a minor, temporary increase in traffic volume due to a maximum of 10 construction workers traveling to and from the Optimization Project site and the delivery of materials and equipment via truck. In addition, construction may result in minor, temporary traffic control procedures. Based on the scale of construction activities, limited construction time, and relatively remote location of the Optimization Project site, this project will not substantially increase traffic in relation to existing roadway capacity.</i></p> <p><i>Optimization Project operations will require the equivalent of less than one full-time worker, along with occasional/periodic truck trips associated with maintenance activities; this project will not substantially affect traffic in relation to existing roadway capacity.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The transportation of construction materials and equipment will be in accordance with</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>standard safety practices and applicable laws and regulations and will not substantially increase hazards. Truck trips associated with maintenance operations will be compatible with existing roadway infrastructure and surrounding activities. Adequate emergency access to the Optimization Project site will be provided from Highway 58 and Mountain View Road.</i></p> <p><i>The negligible increase in traffic generated by Optimization Project operations from less than one full-time equivalent employee, and occasional maintenance-related truck trips will not affect existing levels of service on surrounding roadways in the vicinity of the project. Optimization Project operations will not generate parking demand that will exceed capacity. The project site is not located within the nearby vicinity of an airport or airfield; the improvements and operations will have no effect on existing air traffic patterns or safety.</i></p> <p><i>Optimization Project implementation does not involve design changes to the existing roadway configurations. Construction of extraction well head equipment and conveyance piping may result in minor, temporary traffic control procedures; however, construction activities will not conflict with established transportation policy. No effect on transportation policy, plans, or programs will result from project implementation, including those involving alternative transportation.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
<p><b>XVI. UTILITIES AND SERVICE SYSTEMS</b></p>				
<p>Would the project</p>				
<p>a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>d) Have sufficient water supplies available to serve the project from existing entitlements and resources,</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
or are new or expanded entitlements needed?				
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p><b>Significance – No Impact.</b></p> <p><i>The Optimization Project will have no significant impacts on utilities and solid waste disposal. The Optimization Project will comply with federal, state, and local statutes and regulations related to solid waste.</i></p> <p><i>Optimization Project implementation will not require additional stormwater drainage facilities.</i></p> <p><i>Groundwater extracted for Optimization Project operations will fall within the allocation granted to the DVD LTU property and adjacent PG&amp;E properties in accordance with the adjudication of groundwater rights in the Mojave Basin in 1996.</i></p> <p><i>Optimization Project operations workers (equivalent to less than one full-time operator) will use the restroom facilities at the adjacent DVD LTU or other nearby restroom; no demand will be placed on the regional wastewater treatment facilities serving the area.</i></p> <p><i>The nominal volume of solid waste generated by the Optimization Project will be disposed of in accordance with all applicable laws and regulations.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				
<b>XVII. MANDATORY FINDINGS OF SIGNIFICANCE</b>				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species,	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p>cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?</p>				
<p><b>Significance – Less Than Significant Impact.</b></p> <p><i>Potential impacts associated with the Optimization Project are discussed throughout this initial study; no significant impacts are anticipated from project implementation.</i></p> <p><i>The Optimization Project site lies within the County's Biological Resources Overlay, which indicates the potential presence of the desert tortoise and Mojave ground squirrel. However, these species were not observed during the July 2006, March 2005, October 2003, and August 2002 field reconnaissance surveys of the various parcels within the project site and will not be affected by Optimization Project implementation. Therefore, no conflict with the County plans or policies will result. The Optimization Project does not fall within an approved or adopted habitat conservation plan or any state, regional, or local habitat conservation plan.</i></p> <p><i>The Optimization Project is located on land previously used for agriculture. No natural water features or fish species are located within the vicinity of the project site. Based on biological field surveys of the various parcels within the project site performed in July 2006, March 2005, October 2003, and August 2002, the potential for occurrence of wildlife species is considered very limited. No special-status wildlife species were detected during these field surveys. Due to the high level of existing agricultural disturbance at the project site, the potential to affect historic or pre-historic artifacts is considered minimal.</i></p> <p><b>Mitigation Measures</b> <i>None required.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p>b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Significance – Less Than Significant Impact.</b></p> <p><i>The Optimization Project is surrounded primarily by agricultural development. Because of the minimal new development from the Optimization Project, the potential for significant cumulative environmental impacts is considered limited. Optimization Project construction activities may temporarily contribute minor amounts to the existing PM10 air concentrations in the region. As noted previously, implementation of measures developed by the MDAQMD will ensure this impact is minimized.</i></p> <p><i>Drawdown of water levels in the aquifer from extraction under the Optimization Project has little potential to adversely affect nearby water supply wells. Actual drawdown will be monitored during pumping, and pumping rates and schedules will be adjusted to minimize the impact on local wells and to maximize the benefit of pumping for plume boundary control. Mitigation measures are outlined in Section VIII, and contingency measures are identified, that could be implemented in the unlikely event that one or more private supply wells are adversely affected.</i></p> <p><i>No other environmental impacts are expected that could adversely impact human beings.</i></p> <p><b>Mitigation Measures</b> <i>Implement the monitoring and operating procedures described under Section VIII: Hydrology and Water Quality</i></p>				
<p>c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>Significance – Less Than Significant Impact.</b></p> <p><i>The Optimization Project will have a positive environmental effect by reducing the potential for migration of the Cr(VI) plume in groundwater. Implementation will also result in the removal of Cr(VI) from groundwater in the project vicinity, via extraction and treatment. The Cr(VI) plume control and removal will have a beneficial impact to waters of the state.</i></p>				

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
<p><i>The Optimization Project will result in significant environmental benefits that are consistent with the Basin Plan and beneficial uses of waters of the State of California.</i></p> <p><b>Mitigation Measures</b> <i>None required</i></p>				

**References**

*CH2M HILL, Hinkley Remediation Site Biological Resources Technical Memorandum, September 18, 2002*

07-0046

**Table 1**  
**Comparison of Drawdown in Private Off-Site Wells Where an Increase in Drawdown of Two Feet or More is Predicted**  
**(Existing Pumping versus Proposed Pumping Plan)**  
**Pacific Gas and Electric Company's Chromium Remediation Project**  
**Hinkley, California**

Well ID#	Parcel Number (APN)	Well Location Address	Well Owner Name	Owner Mailing Address (all are Hinkley, CA 92347 unless shown otherwise)	Estimated Drawdown under Existing Pumping (ft)	Predicted Additional Drawdown Under Proposed Plan (ft)
34-34	0494-201-35	Field at the SW corner of Hwy 58 and Mountain View	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barstow, CA 92311	6	4
34-35	0494-201-35	Field at the SW corner of Hwy 58 and Mountain View	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barstow, CA 92311	6	3
34-14	0494-201-35	Field at the SW corner of Hwy 58 and Mountain View	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barstow, CA 92311	6	3
34-02	0494-201-35	Field at the SW corner of Hwy 58 and Mountain View	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barstow, CA 92311	6	3
27-31	0494-041-44	22198 Hwy 58	Malik, Aman	22198 Hwy 58	6	4
27-17	0494-041-14	22086 Hwy 58	Leyerly, Richard, Rev. Trust	21988 Hwy 58	5	4
27-35	0494-041-14	22086 Hwy 58	Leyerly, Richard, Rev. Trust	21988 Hwy 58	5	3
34-45	0494-201-46	22145 Hwy 58	Jacobsen, Ken	22145 Hwy 58	5	3
34-21	0494-201-26	So. of Hwy 58 across from Leyerly Dairy - in field behind row of houses on south side of Hwy 58	Hall, John and Norma	PO Box 1116 Fort Collins, CO 80522	5	3
34-40	0494-201-19	22085 Hwy 58	Shahryarnejad, Ali	22085 Hwy 58	5	4
34-41	0494-201-19	22085 Hwy 58	Shahryarnejad, Ali	22085 Hwy 58	5	4
34-46	0494-201-42	22123 Hwy 58	Dawson, James and Tina	22123 Hwy 58	5	4
34-37	0494-201-35	Field at the SW corner of Hwy 58 and Mountain View	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barstow, CA 92311	5	4
34-36	0494-201-35	Field at the SW corner of Hwy 58 and Mountain View	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barstow, CA 92311	6	4

07-0047

Table 1  
 Comparison of Drawdown in Private Off-Site Wells Where an Increase in Drawdown of Two Feet or More is Predicted  
 (Existing Pumping versus Proposed Pumping Plan)  
 Pacific Gas and Electric Company's Chromium Remediation Project  
 Hinkley, California

Well ID#	Parcel Number (APN)	Well Location Address	Well Owner Name	Owner Mailing Address (all are Hinkley, CA 92347 unless shown otherwise)	Estimated Drawdown under Existing Pumping (ft)	Predicted Additional Drawdown Under Proposed Plan (ft)
27-26	0494-051-37	22078 Acacia St.	Preclado, Ramon and Alfredo	22078 Acacia St.	5	3
27-27	0494-041-35	22067 Acacia St.	Borther, Ken and Gerri	22067 Acacia St.	5	3
27-02	0494-041-37	37152 Serra Rd.	Miller, Kenneth Family Trust	1515 W. Arrow Rte #51, Upland, CA 91786	5	3
27-07	0494-041-37	37152 Serra Rd.	Miller, Kenneth Family Trust	1515 W. Arrow Rte #51, Upland, CA 91786	5	4
27-03	0494-041-23	37193 Hinkley Rd.	Ryken, Paul (Heller Farm)	37193 Hinkley Rd.	4	3
27-18	0494-041-34	21945 Acacia St.	Mathis, Diana & Victory, Tony	21945 Acacia St.	4	3
BGS-10	0494-201-08	21841 Hwy 58	Jordan, Paul	21841 Hwy 58	4	3
34-39	0494-201-17	22045 Hwy 58	Hall, John and Norma	22045 Hwy 58	5	4
34-01	0494-201-35	22191 Hwy 58	Valenzuela, Joel (Mt. View LLC)	c/o ARC Towing, 821 W. Main St, Barslow, CA 92311	6	3
34-03	0494-201-22	33682 Mt. View Rd.	Greenwood, Carol and David	33682 Mt. View Rd.	6	2
34-36	0494-201-22	36682A Mt. View Rd.	Greenwood, Carol and David	36682A Mt. View Rd.	6	2
34-44	0494-201-01	36650 Livingston	Loucky, AJ	36650 Livingston	5	3
34-31	0494-201-36	Wells in field on Serra Rd, south of Hwy 58 and north of Frontier	Lane, Eamest and Frances	RI 1, Box 135 D-2, Denia, TX 75838	5	3
34-43	0494-201-50	36636 Mt. View Rd.	Lee, Charles and Shawna	36636 Mt. View Rd.	5	2
34-07	0494-201-50	36636 Mt. View Rd.	Lee, Charles and Shawna	36636 Mt. View Rd.	5	2
34-42	0494-201-52	36634 Mt. View Rd.	Gisler, Joe	36634 Mt. View Rd.	5	2
34-08	0494-201-52	36634 Mt. View Rd.	Gisler, Joe	36634 Mt. View Rd.	5	2
34-06	0494-201-58	36626 Mt. View Rd.	Waters, Paul	36626 Mt. View Rd.	5	2
34-05	0494-201-55	36506 Mt. View Rd.	Neldert, Errol	36626 Mt. View Rd.	5	2
35-28	0494-251-10	In field east of Mountain View	Trowbridge, John Investments LLC, at al	36506 Mt. View Rd. 1599 Superior, Costa Mesa, CA 92627	5	2
27-09	0494-041-02	In a field north of Hwy 58 and west of Hinkley Rd	Layery, Richard, Rev. Trust	21988 Hwy 58	4	3
27-21	0494-051-12	22096 Santa Fe Ave	Zuno, Abraham	PO Box 266, Hinkley, CA 92347	4	2
27-36	0494-051-18	22062 Santa Fe Ave.	Zuno, Abraham	PO Box 266, Hinkley, CA 92347	4	2

07-0048

Table 1  
**Comparison of Drawdown in Private Off-Site Wells Where an Increase in Drawdown of Two Feet or More is Predicted**  
 (Existing Pumping versus Proposed Pumping Plan)  
 Pacific Gas and Electric Company's Chromium Remediation Project  
 Hinkley, California

Well ID#	Parcel Number (APN)	Well Location Address	Well Owner Name	Owner Mailing Address (all are Hinkley, CA 92347 unless shown otherwise)	Estimated Drawdown under Existing Pumping (ft)	Predicted Additional Drawdown Under Proposed Plan (ft)
27-08	0494-051-40	37600 Hinkley Rd.	Hinkley School	37600 Hinkley Rd.	3	2
27-16	0494-041-27	37223 Hinkley Rd.	Johnson, Paul	37223 Hinkley Rd.	3	2
27-34	0494-041-02	In a field north of Hwy 58 and west of Hinkley Rd.	Leyerly, Richard, Rev. Trust	21988 Hwy 58	4	3
27-38	0494-051-40	37600 Hinkley Rd.	Hinkley School	37600 Hinkley Rd.	3	2
27-39	0494-051-40	37600 Hinkley Rd.	Hinkley School	37600 Hinkley Rd.	3	2
27-40	0494-051-40	37600 Hinkley Rd.	Hinkley School	37600 Hinkley Rd.	3	2
28-17	0494-191-04	NA	NA	NA	3	2
34-48	0494-201-07	21817 Hwy 58	Delton, Derrick and Lorena	21817 Hwy 58	3	2
35-40	0494-251-07	In a field in the southeast corner of Hwy 58 and Mt. View Rd.	Cook, Kwon Whan	2601 Camino Del Sol, Fullerton, CA 92633	6	3

Notes:

- NA not available
- ft feet
- bgs below ground surface

07-0049

**Table 2**  
**Proposed Triggers for Groundwater Levels at Monitoring Wells**  
**Optimization of the Desert View Dairy Groundwater Extraction System**  
**Pacific Gas and Electric Company's Chromium Remediation Project**  
**Hinkley, California**

Well ID#	Predicted Groundwater Level Under Current DVD Pumping Plan (ft above MSL) <sup>(1)</sup>	Predicted Additional Drawdown Under Proposed DVD Optimization Pumping Plan (ft)	Proposed Trigger Level (ft above MSL) <sup>(2)</sup>
MW-28A	2088	5	2081
MW-28B	2088	5	2081
MW-29	2083	1	2080
MW-44A	2089	5	2082
MW-44B	2089	5	2082
MW-47	2085	4	2079
MW-54	2089	5	2082
MW-58 <sup>(3)</sup>	2086	5	2079
MW-59 <sup>(3)</sup>	2082	4	2076
MW-61 <sup>(3)</sup>	2092	3	2087
MW-66A <sup>(3)</sup>	2086	5	2079
EX-09	2081	4	2075

Notes:

ft feet

MSL Mean Sea Level

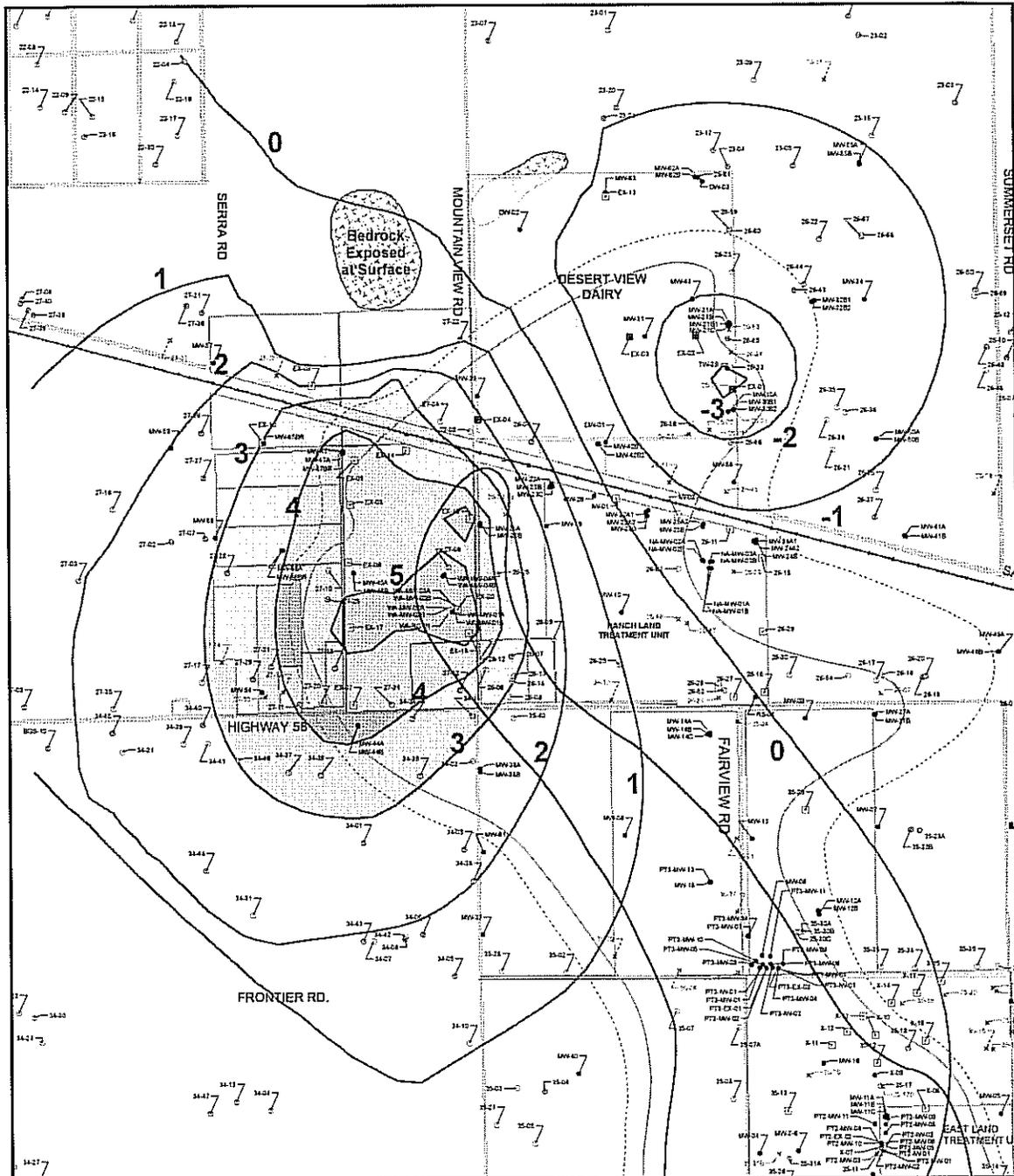
bgs below ground surface

<sup>(1)</sup> DVD pumping was initiated in March 2005. The predicted water level under the current pumping scenario (345 gpm at the DVD using well EX-01 to EX-04) is based on pre-pumping water level data for the individual monitoring wells (pre-March 2005) minus the draw down predicted by the numerical model.

<sup>(2)</sup> The proposed trigger level equals the water level predicted under the current pumping scenario minus the additional draw down predicted under the proposed DVD optimization pumping plan. An additional two feet has been subtracted to account for uncertainty in the modeling effort, and potential future water level changes as a result of drought or other uncontrollable factors such as pumping by others. If a trigger level is exceeded, PG&E will evaluate the cause (i.e., PG&E pumping, drought, pumping by others) and determine if mitigation is required.

<sup>(3)</sup> Pre-March 2005 data is unavailable. The pre-pumping water level is estimated based on available data.



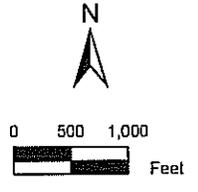


**LEGEND**

- Drawdown Contours (ft)  
Negative numbers indicate water level rise
- Residual Drawdown Greater Than 3 feet
  - ▨ 3 - 4 ft
  - ▨ 4 - 5 ft
  - ▨ 5 + ft
- ⊕ Domestic Well, active and inactive
- ⊙ Agricultural and other supply well, active and inactive
- Supply Well, abandoned and unknown status
- ⊗ Industrial Supply Well, active
- Groundwater Monitoring Well, active and standby
- × Destroyed Well
- ⊠ Groundwater Extraction Well, active DVD LTU
- ⊡ Multiple-Use/Extraction Well, inactive
- Desert View Dairy
- ▭ PG&E Owned Properties

- - - Approximate outline 4 µg/L Hexavalent Chromium concentration, Upper Aquifer, February 2007
- ▨ Approximate outline 10 µg/L Total Chromium (including Hexavalent Chromium) concentration, Upper Aquifer, February 2007
- Approximate outline 50 µg/L Total Chromium (including Hexavalent Chromium) concentration, Upper Aquifer, February 2007

**NOTE:**  
The baseline pumping scenario included pumping 345 gpm from 4 wells on the DVD. The proposed pumping scenario included pumping 345 gpm from 4 DVD wells and 6 non-DVD wells, with about 30% of the pumped volume coming from non-DVD wells. Change in drawdown was calculated as the difference in projected drawdown between the baseline and proposed pumping scenarios after 5 years of pumping.



**FIGURE 2  
PROJECTED CHANGE  
IN DRAWDOWN FROM  
BASELINE CONDITIONS  
AFTER 5 YEARS**

PACIFIC GAS & ELECTRIC CO.  
HINKLEY, CALIFORNIA  
**CH2MHILL**

07-0052