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Arnold Schwarzenegger
Governor

**ACTION ON REQUEST FOR CLEAN WATER ACT (CWA) SECTION 401 WATER QUALITY
CERTIFICATION FOR THE PACIFIC GAS AND ELECTRIC COMPANY
GAS PIPELINE 210A AND 210B IN-LINE INSPECTION AND REPAIR PROJECT
(CORPS FILE NO. 2009-00231N, SWRCB FILE # SB09010IN)**

PROJECT: CWA Section 401 Certification for the Gas Pipeline 210A and 210B In-Line Inspection and Repair Project

APPLICANT: Patricia Sanchez
Pacific Gas and Electric Company
245 Market Street
San Francisco, CA 94105

This Order responds to your request for a 401 Water Quality Certification (Certification) for Pacific Gas and Electric Company's (PG&E) Gas Pipeline 210A and 210B In-Line Inspection and Repair Project (Project). PG&E will conduct the Project under U.S. Army Corps of Engineers (USACE) Nationwide Permit 12. PG&E has applied to the State Water Resources Control Board (State Water Board) for a Certification that the Project will not violate State water quality standards.

A Mitigated Negative Declaration and Notice of Determination for the project has been prepared by the State Water Board, acting as lead agency for CEQA compliance.

A review of the effects of the project indicates that the Project will not violate State water quality standards if specified conditions and mitigations are implemented.

ACTION

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| ☐ Order for Standard Certification | ☐ Order for Denial of Certification |
| ☒ Order for a Technically Conditioned Certification | ☐ Order for Waiver of Waste Discharge Requirements |

PROJECT DESCRIPTION:

The Pacific Gas and Electric Company (PG&E) proposes to inspect Gas Lines 210A and 210B in Solano County. Pipeline inspections are required by a federal regulation (CFR 49 Part 192 Subpart O) which states that all underground pipelines in High Consequence Areas (HCAs) must be inspected. In-Line Inspection of natural gas pipelines is accomplished by inserting a cylindrical inspection tool known as a "pig" into one end of the pipeline and removing it at the

other end. Before Line 210A can be inspected in Spring 2010, PG&E must fabricate and install launching equipment, and replace a mainline valve at the MP 1.38. To accommodate installation of the launching equipment and mainline valve replacement at MP 1.38, PG&E must expand the existing valve lot to the west by an area of 50 ft by 190 ft. This additional area will be fenced and graveled.

Line 210B runs adjacent to and is offset from Line 210A by approximately 10 feet. In-Line Inspection of Line 210B is scheduled for Spring 2011. Prior to inspecting Line 210B, PG&E will similarly fabricate and install launching equipment and replace a mainline valve at MP 1.38. All work on Line 210B at MP 1.38 will be conducted within the proposed 190 ft by 50 ft area to be expanded for the 210A upgrade. Additionally, PG&E will replace the mainline valve at MP 4.88. This work will require temporary excavation outside of the proposed fenced and graveled valve lot.

At each site will, a hole approximately 15 ft wide, 15 ft. long, and 8 ft. deep will be excavated in order to expose the existing pipelines.

The proposed project would pose less than significant impacts to resources with mitigation. A combination of avoidance, minimization and compensatory mitigation measures are proposed.

STANDARD CONDITIONS:

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the California Water Code and Article 6 (commencing with section 3867) of Chapter 28, Title 23 of the California Code of Regulations (CCR).
2. This certification action is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to subsection 3855(b) of Chapter 28, Title 23 of the CCR, and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Certification is conditioned upon total payment of any fee required under Chapter 28, Title 23 of the CCR and owed by the applicant. State Water Board staff received payment of \$786.00 on May 5, 2009.

ADMINISTRATIVE CONDITIONS:

1. PG&E shall construct the Project only in accordance with the conditions described in the application, supporting documents and this Certification Order.
2. This Certification shall expire upon the expiration or retraction of the CWA Section 404 permit issued by the USACE, or five (5) years from the date of issuance of this Certification, whichever comes first.
3. PG&E shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on

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the proposed project shall be adequately informed and trained regarding the conditions of this Certification.

4. PG&E shall grant State Water Board and Regional Water Quality Control Board (Regional Water Board) staff, or an authorized representative, upon presentation of credentials and other documents as may be required by law, permission to enter the project site at reasonable times, to ensure compliance with the terms and conditions of this Certification and/or to determine the impacts the project may have on the waters of the State.
5. A copy of the Storm Water Pollution Prevention Plan (SWPPP) shall be provided to the State Water Board at least 30 days prior to the start of construction. Except as expressly allowed in the Certification, the discharge, or creation of the potential for discharges, to waters of the State of any construction wastes and/or soil materials including cement, fresh concrete, or washings thereof, silts, clay, sand, oil or petroleum products and other organic materials to waters of the State is prohibited.
6. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation must be subject to any remedies, penalties, processes, or sanctions as provided for under State or federal law. For purposes of the CWA section 401 (d), the applicability of any State law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
7. In response to a suspected violation of any condition of this Certification, the State Water Board may require the holder of this Certification to furnish, under the penalty of perjury, any technical or monitoring reports the State Water Board deems appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
8. The State Water Board may add to or modify the conditions of this Certification, as appropriate, to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the CWA.
9. The State Water Board reserves the right to suspend, cancel, or modify and reissue this Certification, after providing notice to PG&E and/or responsible Project Site Supervisor, if the State Water Board determines that the project fails to comply with any of the terms or conditions of the Certification.
10. Permitted activities shall not result in the taking of any State endangered species, threatened species, or candidate species, or the habitat of such a species unless the activity is authorized by the California Department of Fish and Game (CDFG) pursuant to a permit, memorandum of understanding, or other document or program in accordance with Fish and Game Code sections 2081, 2081.1, or 2086.
11. Permitted activities must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Water Quality Control Plan (Basin Plan) by a Regional Water Board or the State Water Board.



12. This Certification does not obviate the need to obtain other permits that may be required by federal, state, or local authorities.
13. Failure to comply with any condition of this Certification shall constitute a violation of the CWA and the Porter-Cologne Water Quality Control Act. Any such Certification previously granted shall immediately be revoked, and any or all discharges shall cease. PG&E may then be subject to administrative and/or civil liability pursuant to Water Code 13385.
14. All protective measures included in the Biological Opinion to be issued by the United States Fish and Wildlife Service (USFWS) for this project shall be implemented. PG&E shall provide the State Water Board with the final Biological Opinion as soon as it is available. No construction activity that could harm or harass wildlife shall occur until a copy of the final Biological Opinion is received by the State Water Board.
15. PG&E shall adhere to any conditions imposed by the Project Nationwide Permit 12, issued to PG&E by the USACE.
16. Any significant modifications to the Mitigation and Monitoring Report Plan (MMRP) (Attachment D) must be approved by the State Water Board before implementation.

ADDITIONAL CONDITIONS:

A. General Discharge Conditions

1. This Project shall comply with all applicable National Pollutant Discharge Elimination System permits and Waste Discharge Requirements.
2. This Project shall not discharge substances in concentrations toxic to human, plant, animal, or aquatic life or that produce detrimental physiological responses.
3. This Project shall not discharge waste classified as "hazardous" as defined in Title 22 CCR section 66261 and CWA section 13173. All hazardous materials, including fuels, lubricants, and cleaning solutions, shall be properly stored, handled, and disposed of.
4. No equipment shall be operated in areas of flowing or standing water.
5. Fueling, lubrication, maintenance, storage and staging of vehicles and equipment shall be outside of waters of the United States and the State. Fueling, lubrication, maintenance, storage and staging of vehicles and equipment shall not result in a discharge or a threatened discharge to any waters of the State or the United States. At no time shall PG&E use any vehicle or equipment which leaks any substance that may impact water quality.
6. Vehicle and equipment fueling and maintenance operations shall be at least 50 ft away from vernal pools and any other aquatic sites.
7. All entrances and exits onto connecting roads shall be kept clean of mud and debris.



8. All hazardous materials, including fuels, lubricants, and cleaning solutions, shall be stored, handled, and used in accordance with all applicable regulations and pollution prevention plans, including but not limited to the Construction Storm Water Pollution Prevention Plan (SWPPP). Any substantial deviation from or change to the pollution prevention plans must be approved by the State Water Board prior to commencement of work.
9. No debris, soil, silt, sand, cement, concrete, or washings thereof, other construction related materials or wastes, oil or petroleum products or other organic or earthen material shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into jurisdictional wetlands or waters. Upon completion of construction, all construction-related materials shall be removed from the work area and any areas adjacent to the work area.
10. Daily visual inspections for waste releases of all vehicles and equipment parked or operating in areas that could potentially drain to surface waters shall be conducted before the vehicles or equipment begin conducting work for the day. Any spillage and leaks shall be noted during any point that they occur during the day. Presence of any spillage leaks must be noted and contaminated soils must be immediately removed from the area for disposal at a permitted facility.
11. A daily log shall be maintained to note the presence and absence of waste releases from vehicles and equipment operating near surface waters. How waste release clean-ups were resolved should be noted. Copies of the daily log shall be maintained on site for inspection and submitted to the 401 Program Managers of the State Water Board and the appropriate Regional Water Board(s) on a monthly basis.
12. In addition to the conditions in this certification, all project activity shall be in compliance with the mitigation measures described in the *PG&E Gas Line 210A and 210B In-Line Investigation Project Mitigation Monitoring and Reporting Plan (MMRP)*.

B. Hydrology and Water Quality Conditions

1. Appropriate BMPs shall be implemented throughout the project activities to minimize erosion, sediment transport, and damage to existing vegetation. All BMP materials shall be on site and ready for use prior to project implementation that throughout the life of the project. BMPs shall be in full compliance with all specifications governing the proper design, installation, operation, and maintenance of such management practices.
2. Disturbance or removal of vegetation shall be minimized. The site shall be stabilized utilizing BMPs, including the successful re-establishment of native vegetation. Re-vegetation work must be completed in the same calendar year as specified in the MMRP.
3. For all areas to be excavated, topsoil will be stripped, stockpiled separately, and replaced at the end of the backfilling process. Impermeable clay layers in the vicinity of vernal pools, if encountered, should be stockpiled separately and replaced to avoid or minimize potential indirect effects to the hydrology of local vernal pool complexes.
4. All trucks hauling soil, sand, and other loose materials shall take measures to ensure that material is not blown or otherwise carried from the vehicle during transport. Loads shall be covered, or at least two feet of free board shall be maintained. If these measures are not sufficient, additional methods of securing the loads must be devised.



5. If any disturbed work area is to be inactive for more than 14 days, mulching, tackifiers, tarps, or other protective measures sufficient to prevent soil erosion will be implemented.
6. Enclose, cover, water daily or apply approved non-toxic soil binders to exposed stockpiles (soil, sand, etc.) to prevent stockpiled soils from moving by precipitation or wind.
7. Equipment engines shall be covered. PG&E shall ensure that mufflers are in good working condition and equipment free of all leaks.
8. All project vehicles shall carry and use trash bags or containers at all times. With the exception of designated storage or staging yards, waste or garbage of all types, including food waste, will be carried off site and properly disposed of daily, and will not be stored at any project activity site beyond the end of any work day.

C. Monitoring and Reporting

PG&E is responsible for the implementation of the *PG&E Gas Pipeline 210A and 210B In-Line Inspection Project Mitigation Monitoring and Reporting Plan* (MMRP) (Attachment C). The success of the mitigation efforts detailed in the MMRP will be monitored annually by a habitat restoration specialist or qualified biologist for a five-year period. Yearly reporting will be required for a minimum of five years. A five year monitoring plan will be implemented with an 80 percent survival rate of all proposed plant species. If vegetative cover does not meet the survival rate performance standard, PG&E shall consult with the appropriate Regional Water Board regarding remedial actions. Failure to meet any of the final five-year performance criteria will result in an extension of the monitoring period until that particular criterion is met. Remedial actions might include additional planting of appropriate species.

As detailed in the MMRP, PG&E will purchase mitigation credits at an USFWS-approved mitigation bank to minimize effects of the proposed project on the California tiger salamander, vernal pool fairy shrimp, and vernal pool tadpole shrimp. PG&E will purchase 0.276 acres of vernal pool preservation credits and 0.136 acres of vernal pool creation credits at a vernal pool conservation bank approved by USFWS prior to the start of earth-moving activities. PG&E will restore the 0.2 acres of habitat temporarily affected by the project. PG&E will also permanently preserve an additional 0.22 acres of salamander habitat by purchasing credits from a USFWS-approved conservation bank. Additionally, PG&E is required to mitigate for the permanent loss of 0.24 acres of upland dispersal habitat by purchasing 0.75 acre of CTS upland habitat credits from a USFWS-approved conservation bank. PG&E shall notify the State and Regional Water Boards of these agreements when consummated.

Monitoring reports will be submitted by November 1st of each monitoring year to the 401 Program Managers of the State Water Board and the appropriate Regional Water Board(s) documenting work undertaken the previous year(s). The reports, at a minimum, shall include:

- i. Names, titles, and affiliations of all persons who prepared the report and conducted field work;
- ii. Copies of USACE permits, any special Conditions, and subsequent Letters of Memorandum;
- iii. Analysis of all quantitative monitoring data;
- iv. Electronic or color copies of all photo-documentation;



- v. Maps showing the monitoring area, vegetation survey sites, and photo-documentation points; and remedial action recommendations, as needed.

Reports shall be directed to: Program Manager, Certification and Wetlands Program: at the following State and appropriate Regional Water Board office(s):

State Water Resources Control Board
Division of Water Quality
1001 "I" Street, 15th Floor
Sacramento, CA 95814

San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Central Valley Regional Water Quality Control Board
Sacramento Office
11020 Sun Center Drive, #200
Rancho Cordova, CA 95670-6114

1. PG&E shall notify the State Water Board within 24 hours of any noncompliance that may impact the beneficial uses of waters of the State. The notification shall include the volume and type of materials discharged and recovered, measures used to contain the discharge, and measures used to prevent future discharges.
2. All information requested in this Certification, including mitigation and monitoring reporting, is pursuant to CWC section 13267. Civil liability may be administratively imposed by the State Water Board for failure to furnish requested information pursuant to CWC section 13268.
3. PG&E shall submit a notice of mitigation completion and final mitigation report to the State Water Board which must be approved by the State Water Board staff contact for this project

STATE WATER BOARD CONTACT PERSON:

If you have any questions, please contact State Water Board Environmental Scientist Cliff Harvey at (916) 558-1709 (charvey@waterboards.ca.gov). You may also contact Bill Orme, Chief of the 401 Certification and Wetlands Protection Unit, at (916) 341-5464 (borme@waterboards.ca.gov).

WATER QUALITY CERTIFICATION:

I hereby issue an order certifying that any discharge from the referenced project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards), if all of the conditions listed in the certification action are met. This discharge is also regulated pursuant to State Water Board Quality Order No. 2003-0017-DWQ, which authorizes this certification to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

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Except insofar as may be modified by any preceding conditions, all certification actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the MMRP and as described in the Project Information Sheet (Attachment B), and (b) compliance with all applicable requirements of the pertinent Regional Water Board's Water Quality Control Plan.

Dorothy Ride

Dorothy Ride, Executive Director
State Water Resources Control Board

7-01-10

Date

Attachments (3):
A. Signatory Requirement
B. Project Information Sheet
C. Mitigation Monitoring and Reporting Plan

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SIGNATORY REQUIREMENTS

*All Documents Submitted In Compliance With This Order
Shall Meet The Following Signatory Requirements:*

1. All applications, reports, or information submitted to the State Water Resources Control Board (State Water Board) must be signed and certified as follows:
 - (a) For a corporation, by a responsible corporate officer of at least the level of vice- president.
 - (b) For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
 - (c) For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
2. A duly authorized representative of a person designated in Items 1.a through 1.c above may sign documents if:
 - (a) The authorization is made in writing by a person described in Items 1.a through 1.c above.
 - (b) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
 - (c) The written authorization is submitted to the State Water Board Executive Director.
3. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

PROJECT INFORMATION SHEET

PG&E Gas Pipeline 210a and 210b In-Line Inspection and Repair Project
Corps File No. 2009-00231N -- State Water Board I.D. No. SB 09010IN

1.	Applicant & Agent	Patricia Sanchez Pacific Gas and Electric Company 245 Market Street San Francisco, CA 94105
2.	Project Purpose, and Description	In-Line Inspection of natural gas pipelines is accomplished by inserting a cylindrical inspection tool known as a "pig" into one end of the pipeline and removing it at the other end. Before Line 210A can be inspected in Spring 2010, PG&E must fabricate and install launching equipment, and replace a mainline valve at the Mile Post (MP) 1.38. To accommodate installation of the launching equipment and mainline valve replacement at MP 1.38, PG&E must expand the existing valve lot to the west by an area of 50 ft by 190 ft. This additional area will be fenced and graveled. Line 210B runs adjacent to and is offset from Line 210A by approximately 10 feet. In-Line Inspection of Line 210B is scheduled for Spring 2011. Prior to inspecting Line 210B, PG&E will similarly fabricate and install launching equipment and replace a mainline valve at MP 1.38. All work on Line 210B at MP 1.38 will be conducted within the proposed 190 ft by 50 ft area to be expanded for the 210A upgrade. Additionally, PG&E will replace the mainline valve at MP 4.88. This work will require temporary excavation outside of the proposed fenced and graveled valve lot.
3.	Receiving Water(s)/ Hydrologic Unit(s)	For both work sites, MP 1.38 and MP 4.88, receiving waters are San Wilson Creek (Suisun Bay - San Francisco Bay) USGS HUC 18050001
4.	Latitude/Longitude	Project Location: Rural southern Solano County off Creed Road between Denverton Road and Hwy 113. MP 1.38 work site (Existing valve yard): lat 38.241891/ long. 121.830568 Work site MP 4.88 (new valve installation): 38.243810 / 121.894197
5.	Dredge Volume (CY)	NA
6.	Water Body Type(s) & Area of Filled/Excavated Waters (Acres)	0.037 acres of vernal pool wetlands at MP 1.38 work site.
7.	Federal Permit	U.S. Army Corps of Engineers, San Francisco District (File # 2009-00231N)
8.	Mitigation Measures	All mitigation measures are detailed in the Project's Mitigation Monitoring and Reporting Plan (MMRP), including the following compensatory mitigation measures.
9.	Compensatory Mitigation	To minimize effects of the proposed project on the California tiger salamander, vernal pool fairy shrimp, and vernal pool tadpole shrimp, PG&E will purchase mitigation credits at an USFWS-approved mitigation bank.

PROJECT INFORMATION SHEET

**PG&E Gas Pipeline 210a and 210b In-Line Inspection and Repair Project
Corps File No. 2009-00231N -- State Water Board I.D. No. SB 090101N**

		PG&E will purchase 0.276 acres of vernal pool preservation credits and 0.136 acres of vernal pool creation credits at a vernal pool conservation bank approved by USFWS prior to the start of earth-moving activities. PG&E will restore the 0.2 acres of habitat temporarily affected by the project. PG&E will also permanently preserve an additional 0.22 acres of salamander habitat by purchasing credits from a USFWS-approved conservation bank. Additionally, PG&E proposes to mitigate for the permanent loss of 0.24 acres of upland dispersal habitat by purchasing 0.75 acre of CTS upland habitat credits from a USFWS-approved conservation bank.
10.	CEQA Compliance	Mitigated Negative Declaration Lead Agency: State Water Resources Control Board (SWRCB) Prepared by: CH2M Hill Date Completed: May 2010

Attachment C
Mitigation Monitoring and Reporting Plan

PG&E Gas Line 210A and 210B In-Line Investigation Project Mitigation Monitoring and Reporting Plan

1.0 Introduction

Authority and Purpose of the Program

The State Water Resources Control Board (SWRCB) Initial Study/Mitigated Negative Declaration (IS/MND) for the PG&E Gas Line 210A and 210B In-Line Investigation Project (Project) includes a series of mitigation, avoidance, and protection measures intended to minimize the environmental impacts of project construction and restoration. CEQA and SWRCB require that these measures be summarized in a Mitigation Monitoring and Reporting Plan (MMRP). This document is the required MMRP.

The purpose of this MMRP is to catalog both the mitigation measures adopted by the SWRCB and the avoidance and protection measures (APMs) proposed by the Applicant, to specify a process that will ensure that the measures are implemented, and to establish that they have reduced potential environmental impacts to acceptable levels.

As the CEQA lead agency, the SWRCB is required to monitor Project construction and restoration in order to confirm implementation of mitigation and applicant-proposed avoidance and protection measures. In addition, the SWRCB is responsible for ensuring compliance with the MMRP. The SWRCB may delegate these duties and responsibilities consultants or the Applicant.

Program Adoption Process

As part of the adoption of the IS/MND, SWRCB will confirm that this MMRP complies with CEQA Guidelines Section 15074(d), which mandates the preparation of monitoring provisions for implementation of mitigation assigned as part of project approval or adoption. As the CEQA lead agency for this Project, the SWRCB intends to adopt this MMRP concurrent with the adoption of the IS/MND.

Organization of the MMRP

This MMRP includes three sections: Section 1.0 discusses the purpose of the MMRP and lists the agencies with permitting authority over the Project; Section 2.0 specifies the parties or agencies responsible for the implementing the MMRP; and Section 3.0 identifies implementation and monitoring procedures.

2.0 Roles and Responsibilities

Mitigation Implementation

Implementing measures assigned to mitigate impacts associated with the Project is the SWRCB's responsibility, however, this responsibility will be delegated to PG&E, or its designated representative during construction and restoration activities. Therefore, PG&E will be responsible for ensuring that the Project complies with the MMRP and other permit

conditions imposed by other responsible agencies. A list of agencies with jurisdiction over the Project is included in Table 1.

TABLE 1

Agency	Jurisdiction within Project Area	Contact
USACE	Placement of temporary fill in waters of the U.S. located north and south of Creed Road (IS/MND Figures 1 through 3).	Justin Yee Department of the Army San Francisco District U.S. Army Corps of Engineers 1455 Market Street San Francisco, CA, 94103-1398 (415) 503-6788
USFWS	Endangered Species Act consultation. Addresses potential Project impacts to federally-threatened vernal pool fairy shrimp (<i>Branchinecta lynchi</i>), vernal pool tadpole shrimp (<i>Lepidurus packardii</i>), and California tiger salamander (<i>Ambystoma californiense</i>) north and south of Creed Road (IS/MND Figures 1 through 3).	Michelle Tovar, Endangered Species Program, Sacramento Fish and Wildlife Office (916) 414-6600
SWRCB	Compliance with Clean Water Act Section 401.	Cliff Harvey 401 Certification & Wetlands Unit Division of Water Quality SWRCB 1001 I Street, 15th Floor Sacramento, CA 95814 (916) 558-1709

Mitigation Monitoring

As discussed previously, the SWRCB is responsible for ensuring compliance with and implementation of the MMRP. Consistent with SWRCB practices, implementation and monitoring duties will be delegated to PG&E or its designated environmental monitors or consultants. As a result, PG&E's monitors/consultants will be delegated authority by the SWRCB to enforce the MMRP and to authorize any variance or deviation from the procedures, as long as the variance is consistent with CEQA, approved by the SWRCB, and does not cause new significant impacts. Any proposed variance that could result in a potentially significant environmental effect will be evaluated to determine whether supplemental CEQA review and additional mitigation measures are needed. In the event of the need for a proposed variance or deviation from the adopted MND or MMRP, the implementation of such deviation, shall be reported immediately to the SWRCB and the authorized construction monitor for review and approval.

Under this delegated responsibility, PG&E will designate specific personnel to ensure implementation of mitigation during construction activities. The designated personnel will be responsible for submitting all compliance documentation and reports to PG&E and the SWRCB in a timely manner and prepare required resource agency submittals. These personnel will also be delegated the authority to halt construction activities found to be inconsistent with the MMRP objectives or conditions of approval.

In addition, PG&E will be responsible for demonstrating compliance with other agencies' permit conditions. PG&E and the authorized personnel will ensure that its construction contractors understand and adhere to the MMRP performance requirements and other contractual requirements related to the implementation of the MMRP.

Table 2 provides a summary of the MMRP. It lists each potential environmental impact, the corresponding monitoring activity/plan, and the party responsible for ensuring MMRP compliance.

Mitigation Enforcement

In addition to implementation of the MMRP, PG&E is also responsible for enforcing the established performance standards and reporting the success of their implementation to the SWRCB through a mutually acceptable reporting program. This program will be finalized following adoption of the IS/MND and MMRP and in place prior to construction. The PG&E onsite environmental monitor(s)/consultant (s) will enforce implementation of the MMRP. The monitor will note problems and report them to PG&E who will in turn inform the SWRCB. If alternative mitigation measures are identified that would be equally effective in mitigating the identified impacts, the implementation of these alternative measures will not occur until confirmation is received from the SWRCB.

The SWRCB has the authority to halt any construction, operation, or maintenance activity associated with the Project if the activity is determined to be a deviation from the approved project or adopted mitigation measures. The SWRCB may assign this authority to the environmental monitor for each construction phase or spread.

Mitigation Compliance

PG&E is responsible for successfully implementing all adopted mitigation measures in the MMRP. Performance standards for successful mitigation are included in each mitigation measure to include requirements for obtaining permits or avoiding a specific impact or area entirely.

Dispute Resolution

Disputes and complaints (including those of the public) will be directed to the SWRCB's designated Project Manager for resolution. The SWRCB Project Manager will attempt to resolve the dispute. If this informal process fails, then the SWRCB Project Manager may initiate an enforcement or compliance action to address deviations from the permitted project and adopted MMRP.

3.0 General Monitoring Procedures

Lead Environmental Monitor

PG&E is responsible for ensuring coordination of mitigation monitoring procedures for the construction and restoration activities with the SWRCB and the authorized environmental monitors/consultants. The lead Environmental Monitor will oversee implementation of the monitoring procedures, coordinate with each environmental monitor assigned to each

construction phase or spread, and be onsite during any project-related activity with the potential to result in a significant impact for which mitigation is required. The environmental monitor is also responsible to ensure that all MMRP procedures are followed.

Construction Personnel

Many of the mitigation measures require compliance with MMRP requirements by construction personnel. Successful implementation of the MMRP will include:

- ✓ Compliance procedures written into contracts between PG&E, authorized monitors/consultants, and construction contractors. Procedures for implementation by construction personnel will be compiled into a separate consent agreement for review and signature by each construction employee.
- ✓ Regular pre-construction meetings to inform and train all construction personnel about the MMRP requirements.
- ✓ Concise summaries of MMRP procedures provided to construction supervisors for measures requiring their attention.

General Reporting Procedures

Site visits and specified monitoring procedures will be reported by each environmental monitor assigned to the project. A monitoring record form will be submitted to the environmental monitor by the individual conducting the visit or procedure so that details of the visit can be recorded and progress tracked by the environmental monitor. A checklist will be developed and maintained by the environmental monitor to track all procedures required for each mitigation measure and to ensure adherence to the timing specified for the procedures. The environmental monitor will note any problems that may occur and take appropriate action to rectify the problems. The Applicant shall provide the State Water Board with written annual reports of the project, which shall include progress of any project-related activity, resulting impacts, mitigation implemented, and all other noteworthy elements of the project. Annual reports shall be required as long as mitigation measures are applicable.

Condition Effectiveness Review

As required by CEQA, the SWRCB must evaluate the effectiveness of implemented mitigation measures. In order to fulfill its statutory mandates to mitigate or avoid significant effects on the environment and to design a mitigation monitoring program to ensure compliance during Project implementation (CEQA 21081.6), the SWRCB may:

- ✓ conduct a comprehensive review of conditions which are not effectively mitigating impacts at any time it deems appropriate, consistent with standard SWRCB dispute resolution procedures; and
- ✓ determine that measures are not adequately mitigating environmental impacts, or that recent proven technological advances could provide more effective mitigation. If

this occurs, then the SWRCB may impose additional reasonable conditions to effectively mitigate these impacts.

TABLE 2
Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact		Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
			One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
Mitigation Measures								
Biological Resources								
Have a substantial adverse effect, on any species identified as a candidate, sensitive, or special status species	BIO-1: To minimize effects of the proposed project on the California tiger salamander, vernal pool fairy shrimp, and vernal pool tadpole shrimp, PG&E will purchase mitigation credits at an USFWS-approved mitigation bank.		Prior to construction		Prior to construction		PG&E	PG&E, reporting to SWRCB
	BIO-2: PG&E will purchase 0.276 acres of vernal pool preservation credits and 0.136 acres of vernal pool creation credits at a vernal pool conservation bank approved by USFWS prior to the start of earth-moving activities.		Prior to construction		Prior to construction		PG&E	PG&E, reporting to SWRCB
	BIO-3: PG&E will restore the 0.2 acres of habitat temporarily affected by the project. PG&E will also permanently preserve an additional 0.22 acres of salamander habitat by purchasing credits from a USFWS-approved conservation bank. Additionally, PG&E proposes to mitigate for the permanent loss of 0.24 acres of upland dispersal habitat by purchasing 0.75 acre of CTS upland habitat credits from a USFWS-approved conservation bank.		During Restoration		During Restoration		PG&E	PG&E, reporting to SWRCB

TABLE 2
Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration			Monitoring Duration			Responsibility ²	
		One-time	Ongoing		One-time	Ongoing		Implementation	Monitoring
PG&E Avoidance and Protection Measures ¹									
Air Quality									
Temporary Construction related fugitive dust generation	APM-AQ-1: Water all active construction areas at least twice daily during dry conditions.		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-AQ-2: Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of free board.		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-AQ-3: Pave, apply water three times daily (during dry conditions), or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites.		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-AQ-4: Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas at construction sites.		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-AQ-5: Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-AQ-6: Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more).		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-AQ-7: Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.).		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB

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Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
Temporary Construction related GHG/ CO ₂ emissions	APM-AQ-8: Limit traffic speeds on unpaved roads to 15 mph.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	APM-AQ-9: Install sandbags or other erosion control measures to prevent silt runoff to public roadways.	During Construction	During Construction	During Construction	During Construction	PG&E	PG&E, reporting to SWRCB
	APM-AQ-10: Replant vegetation in disturbed areas as quickly as possible.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	APM-GHG-1: Encouraging the use of bio-diesel fuel for diesel-powered equipment and vehicles.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	APM-GHG-2: Encouraging construction workers to carpool.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
Biological Resources	APM-GHG-3: Encouraging the recycling of construction waste.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	Potential impacts to any species identified as a candidate, or sensitive, or special status species	Prior to construction		Prior to construction		PG&E	PG&E, reporting to SWRCB
	APM-BIO-1: An employee education program will be conducted, consisting of a brief presentation to explain endangered species concerns to contractors, their employees, and any other personnel involved in the Project. The program will include the following: a description of special-status species and their habitat needs; a report of the occurrence of these species in the Project area; an explanation of the status of						

TABLE 2
Gas Line 210A and 210B ILLI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration			Monitoring Duration			Responsibility ²	
		One-time	Ongoing		One-time	Ongoing		Implementation	Monitoring
	these species and their protection under the Federal Endangered Species Act, California Endangered Species Act, and other statutes; and a list of measures being taken to reduce impacts to the species during Project construction and implementation. A fact sheet conveying this information will be prepared for distribution to the above-mentioned people and anyone else who may enter the Project site. Upon completion of training, employees will sign a form stating that they attended the training and understand all the conservation and protection measures. To the extent possible, nighttime construction will be minimized. Construction crews will be informed during the education program meeting that, to the extent possible, travel within the marked Project site will be restricted to established roadbeds. Established roadbeds include all pre-existing and Project-constructed unimproved, as well as, improved roads.								
	APM-BIO-2: Biological monitors will be onsite during all ground-disturbing work within sensitive biological areas and the seasonal wetlands located adjacent to MP 4.88 and MP 1.38. Temporary work areas will be clearly flagged and marked. To the extent feasible, all work within sensitive biological areas will be conducted during the dry season.		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB
	APM-BIO-3: Dust control measures will be implemented during construction in the dry season. Work areas and dirt access roads will		During Construction			During Construction		PG&E	PG&E, reporting to SWRCB

TABLE 2
Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration			Monitoring Duration			Responsibility ²	
		One-time	Ongoing	Ongoing	One-time	Ongoing	Ongoing	Implementation	Monitoring

be watered regularly to minimize airborne dust
and soil particles generated by construction.

TABLE 2
Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	APM-BIO-4: The potential for adverse effects to water quality in vernal pools or habitat within the Project area will be avoided by implementing temporary Best Management Practices outlined in the California Stormwater Quality Association's Construction Handbook (CASQA, 2003). PG&E's Storm Water Pollution Prevention Plan and erosion control Best Management Practices will be used to minimize any wind- or water-related erosion. Protective measures will include: a. No discharge of pollutants from vehicle and equipment cleaning will be allowed into storm drains, wetlands, or water courses. b. Vehicle and equipment fueling and maintenance operations must be at least 100 feet from vernal pools and other aquatic habitat. c. Dust control will be implemented, including the use of water trucks to control dust in disturbed areas, rocking temporary access road entrances and exits, and placement of geotextile mats and rock on access road areas to be used in the wet season. d. Disturbed work areas will be restored to pre-Project conditions and will be reseeded, as appropriate.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB

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Gas Line 210A and 210B ILLI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
APM-BIO-5: Project-related vehicles shall observe a 15 mph speed limit in all Project areas, except on county roads and state and federal highways.	APM-BIO-6: The limits of the construction area throughout the Project will be flagged if not already marked by right of way or other fencing, and all activity will be confined within the marked area. A qualified biologist shall be onsite during all activities that could result in the take of a listed species.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
			During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
APM-BIO-7: The Project proponent shall include a copy of the USFWS-issued Biological Opinion (BO) within its construction documents making the primary contractor responsible for implementing all requirements and obligations included within the BO, and to educate and inform all other contractors involved in the project as to the requirements of the BO.	APM-BIO-8: A biologist shall inspect construction-related activities at the proposed Project area to ensure that no unauthorized take of federally-listed species or destruction of their habitat occurs. The biologist shall be available for monitoring throughout all phases of construction that may result in adverse effects to listed crustaceans.	Prior to construction		Prior to construction		PG&E	PG&E, reporting to SWRCB
			During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
APM-BIO-9: The contractor will prepare a site-specific Stormwater Pollution Prevention Plan (SWPPP) for the Project to protect receiving waters from pollution. The SWPPP will include standard sediment and erosion control measures		During Construction		During Construction		PG&E	PG&E, reporting to SWRCB

TABLE 2
Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	that include limiting soil disturbances during the winter rainfall season. Given the site-specific conditions of the Project area, the SWPPP for this Project will generally include limiting soil disturbances during the winter rainfall season of October 15 through April 15 and fully stabilizing disturbed areas prior to December 1. Standard sediment erosion control measures, such as silt fencing, straw bale barriers, and sediment traps shall be implemented to directly reduce the off-site transport of sediment from disturbed slopes. Existing vegetation that can be preserved will be identified and flagged or fenced to avoid disturbance. Erosion in disturbed areas will be controlled through the use of grading operations that eliminate direct routes for conveying runoff to drainage channels and use of soil stabilization Best Management Practices (BMPs), such as mulching, erosion control fabrics, and/or reseeded with grass or other plants where necessary.						
	APM-BIO-10: To the extent feasible, all ground disturbing activities within MP 1.38 and MP 4.88 work sites will be conducted during the dry season (June 1 – October 15). Prior to the initiation of ground disturbance at these two work sites, preconstruction surveys shall be conducted by a qualified biologist(s) for burrows and upland habitat within the temporary work easements. These surveys shall consist of walking surveys of the project site and adjacent areas to determine presence of burrows. Burrows will be flagged and avoided to the extent feasible. If salamanders are observed during these surveys, a USFWS-approved	Prior to construction (i.e., ground disturbance)		Prior to construction (i.e., ground disturbance)		PG&E	PG&E, reporting to SWRCB

TABLE 2

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²
		One-time	Ongoing	One-time	Ongoing	
	biologist(s) will remove the animal from the work site and translocate them under the direction and authorization of the Service.					
	APM-BIO-11: All salamanders captured on the Project site during monitoring and inspections conducted during construction shall be removed by a USFWS-approved biologist(s) and translocated under the direction and authorization of the USFWS.	During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	APM-BIO-12: To prevent inadvertent entrapment of salamanders during construction, all excavated, steep-walled holes or trenches more than 2 feet deep shall be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. If at any time a trapped listed animal is discovered, a biologist(s) should immediately place escape ramps or other appropriate structures to allow the animal to escape, or the USFWS and/or CDFG shall be contacted by telephone for guidance. The USFWS shall be notified of the incident by telephone and electronic mail within one (1) working day.		During Construction		During Construction	PG&E, reporting to SWRCB
	APM-BIO-13: If requested, before, during, or upon completion of ground breaking and/or construction activities, the Project proponents shall allow access by USFWS and/or CDFG personnel to the Project site to inspect Project effects to the salamander and associated habitats.		Before or throughout the construction period		Before or throughout the construction period	PG&E, reporting to SWRCB

TABLE 2
Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	APM-BIO-14: Prior to construction activities, a qualified botanist shall establish exclusion zones for special status plants within 50 feet of impact areas. These exclusion zones will include known populations and, where practicable, a 50-foot buffer zone. Construction equipment and personnel will be restricted from entering the exclusion zones, except where allowed under specific mitigation measures. An environmental monitor will be onsite during construction activities in the vicinity of sensitive biological resources. If direct or indirect impacts to special-status plant species are observed then the monitor shall notify the construction manager immediately. If any populations of special-status plants are impacted, work in that area will be halted. The environmental monitor, in consultation with PG&E, will contact the CDFG and/or the USFWS.	Prior to construction (i.e., ground disturbance)	Ongoing	Prior to construction (i.e., ground disturbance)	Ongoing	PG&E	PG&E, reporting to SWRCB
		Prior to construction (i.e., ground disturbance) at this location		Prior to construction (i.e., ground disturbance) at this location		PG&E	PG&E, reporting to SWRCB
	APM-BIO-15: Pappose tarplant readily transplants from seed and can adapt and survive in disturbed habitats along with natural ones. This species also appears to thrive with some disturbances, such as trampling, grazing, mowing, and light disking. Prior to disturbing areas with pappose tarplant, all top soil shall be removed. Plants that are in bloom shall be removed and dried to collect seeds that have matured. After construction, restoration and planting with top soil and seed shall be implemented by a qualified botanist. PG&E is currently seeking a suitable transfer site and will submit the proposed translocation site and pappose tarplant Relocation Plan for CDFG approval.	Prior to construction (i.e., ground disturbance) at this location		Prior to construction (i.e., ground disturbance) at this location			

TABLE 2
Gas Line 210A and 210B ILL Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	APM-BIO-16: For Project construction activities occurring during the bird nesting season of February 1 through August 31, a qualified ornithologist shall conduct pre-construction surveys for nesting birds within two weeks of construction. These surveys will cover the transmission line route, staging areas, pull sites, fly sites, and access routes. Additional pre-construction surveys shall be conducted for each new phase of Project implementation that occurs during the nesting season, no more than two weeks prior to construction. For any nests that are found, nest protection zones will be established. For passerine birds, a 50 to 100-foot protection zone shall be established around active nests; for raptors, a 300-foot protection zone and for golden eagles a 500-foot protection zone shall be established around active nests. These protection zones may be modified on a site-specific basis as determined by the Environmental Monitor or in coordination with CDFG. Active nests within the Project area would be monitored for signs of disturbance. If the biological monitor determines that a disturbance is occurring, construction shall be halted, and the agencies shall be contacted as to the measures that shall be implemented. Preconstruction surveys will be conducted by a qualified biologist for burrowing owls at work sites MP 1.38 and MP 4.88. If active burrows are found near a work area during preconstruction surveys or at any time during construction, work in the vicinity of the burrows would be limited as follows: no disturbance would occur within approximately	2-weeks prior to start of each phase of project construction (i.e., ground disturbance) during nesting season			To coincide with the implementation of APM-21 pre-construction surveys as appropriate; and ongoing during construction if active nests are identified	PG&E	PG&E, reporting to SWRCB

TABLE 2
Gas Line 210A and 210B ILLI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	160 feet of occupied burrows during the non-breeding season of September 1 – January 31, or within approximately 250 feet during the breeding season of February 1 – August 31; the limits of the exclusion zone in the project work area will be clearly marked with signs, flagging and/or fencing.						
	PG&E will consult with CDFG to determine the appropriate mitigation requirements if impacts to burrowing owl habitat cannot be avoided.						
	APM-BIO-17: To the extent feasible, buffers to wetlands will be created using signage or exclusion fencing during construction. Areas that are avoided shall be further protected from indirect impacts by using BMPs. PG&E shall implement the following erosion and sediment control and surface water protection methods for each of the work sites: At MP 1.38, the portion of seasonal wetland to be filled will be clearly delineated and marked with flagging or fencing so that the remaining portion of the seasonal wetland will be avoided. BMPs, such as silt fencing and/or fiber rolls, will be installed around the portion of seasonal wetland to be avoided. At MP 4.88, BMPs, such as fiber rolls and/or silt fencing, shall be installed between the two seasonal wetlands and the work site.						
		Prior to construction (i.e., ground disturbance)		Prior to construction (i.e., ground disturbance)	During construction	PG&E	PG&E, reporting to SWRCB
	A qualified biological monitor shall inspect construction-related activities at each work site						

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Gas Line 210A and 210B ILI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	to assist in the preservation of existing vegetation to the extent possible, ensure avoidance of water features when feasible; and to ensure water quality measures and BMPs are being implemented.						
Cultural Resources							
Possible impacts to previously unidentified archaeological resources that could be encountered during Project-related ground-disturbing activities	APM-CULT-1: If concentrations of prehistoric or historic-period materials are encountered during ground-disturbing work at any of the Project work sites, all work in the immediate vicinity of the discovery shall be halted until a qualified archaeologist can evaluate the significance of the find. If the find is determined to be significant, PG&E shall determine the appropriate avoidance measures or other appropriate mitigation in consultation with a qualified archaeologist and the State Water Resources Control Board. Significant cultural materials shall be curated according to current professional standards.		During construction		During construction	PG&E	PG&E, reporting to SWRCB
Possible impacts to previously unidentified paleontological resources that could be encountered during Project-related ground-disturbing activities	APM-CULT-2: If unanticipated paleontological resources are discovered during ground-disturbing activities during the Project, excavations in the immediate vicinity of the find shall be temporarily halted until the discovery is examined by a qualified paleontologist per Society of Vertebrate Paleontology standards. If the find is determined to be significant, PG&E shall determine the appropriate avoidance measures or other appropriate mitigation in consultation with a qualified paleontologist and the State Water Resources Control Board.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB

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Gas Line 210A and 210B ILLI Repair Project MMRP Summary

Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
Potential impacts related to the unanticipated discovery of human remains	Significant paleontological finds shall be curated according to current professional standards.						
	APM-CULT-3: If human remains are encountered, work in the immediate vicinity shall stop and the County Coroner shall be notified immediately. A qualified archaeologist shall be contacted immediately to evaluate the discovery. If the human remains are of Native American origin, the Coroner must notify the Native American Heritage Commission within 24 hours of this identification. The Native American Heritage Commission then has 48 hours to identify a Most Likely Descendent.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
Hydrology and Water Quality							
Potential impacts related to ground-disturbing activities that could cause soil erosion and release of excess sediment into water courses	APM-WQ-1: No discharge of pollutants from vehicle and equipment cleaning are allowed into the storm drain or water courses.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	APM-WQ-2: Vehicle and equipment fueling and maintenance operations must be at least 50 ft away from vernal pools and other aquatic habitat.		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB
	APM-WQ-3: Dust control will be implemented, including the use of water trucks to control dust in disturbed areas; rocking temporary access road entrances and exits; and placement of geotextile mats and rock on access road areas		During Construction		During Construction	PG&E	PG&E, reporting to SWRCB

TABLE 2
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Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring
	to be used in the wet season.						
	APM-WQ-4: Disturbed work areas will be restored to pre-Project conditions, and reseeded if appropriate.	Restoration at the conclusion of construction		During Restoration		PG&E	PG&E, reporting to SWRCB
	APM-WQ-5: At the time of excavation within the temporarily impacted wetland at MP 1.38, the top six to twelve inches of soil within the wetland footprint will be salvaged and set aside. Once the upgrade and repair work is complete, the wetland topsoil will be reapplied to the excavation in the same soil horizon and compacted to pre-existing conditions. A qualified wetlands scientist will be present during excavation and backfill of soils at the MP 1.38 site.		During Construction	During Construction		PG&E	PG&E, reporting to SWRCB

Noise

Potential temporary construction related noise impacts to sensitive receptors	APM-NOI-1: Care of Equipment – Equipment engines shall be covered, and PG&E will ensure that mufflers are in good working condition. This measure can reduce equipment noise by 5 to 10 dBA.	During Construction	During Construction			PG&E	PG&E, reporting to SWRCB
	APM-NOI-2: Equipment Location -- All stationary equipment such as compressors and welding machines shall be located away from noise receptors to the extent practicable.	During Construction	During Construction			PG&E	PG&E, reporting to SWRCB

Notes:

¹ PG&E avoidance and protection measures are included as part of the project description.

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Issue Area/Impact	Measure	Implementation Duration		Monitoring Duration		Responsibility ²	
		One-time	Ongoing	One-time	Ongoing	Implementation	Monitoring

² PG&E will delegate responsibility to authorized representative.