

Yvonne J. Meeks Site Remediation - Portfolio Manager Environmental Affairs

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March 28, 2006

Cathy Wolff-White U.S. Bureau of Land Management 2610 Sweetwater Avenue Havasu City, AZ 86406

Subject: Topock Construction Activities - Biological Resources Completion Report for the PE-1 Pipeline and Floodplain In-situ Pilot Study

Dear Ms. Wolff -White:

Enclosed is the *Biological Resources Completion Report for the PE-1 Pipeline and Floodplain Insitu Pilot Study,* which documents construction activities and associated biological monitoring of the PE-1 pipeline and groundwater wells for the floodplain in-situ pilot study. A Biological Assessment (BA) of the subject activities was prepared in November 2005 in accordance with Section 7 of the Endangered Species Act. This report has been prepared in conformance with Condition No. 18 of the November 2005 BA which requires a brief report documenting the effectiveness of project minimization measures, pre- and post-construction survey information, photo documentation, and information related awareness training.

If you have any immediate questions or concerns regarding this document, feel free to contact me at (805) 546-5243 or Steven Smith/CH2M HILL at (415) 541-7220.

Sincerely,

Julii Eatine for yvonne Meeks

Biological Resources Completion Report for the PE-1 Pipeline and Floodplain *In-situ* Pilot Study: Topock Compressor Station Expanded Groundwater Extraction and Treatment System

Needles, California

Prepared for

United States Bureau of Land Management United States Fish and Wildlife Service

on behalf of

Pacific Gas and Electric Company

March 2006



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Acronyms and Abbreviations

BA	Biological Assessment
BLM	United States Bureau of Land Management
BOR	United States Bureau of Reclamation
CDFG	California Department of Fish and Game
CFR	Code of Federal Regulations
CWA	Clean Water Act
DTSC	California Department of Toxic Substances Control
FCR	field contact representative
FESA	Federal Endangered Species Act
GIS	geographic information system
GPS	global positioning system
HDPE	high- density polyethylene
IM	Interim Measure
msl	mean sea level
MW	monitoring well
No.	number
PE	potential extraction well
PG&E	Pacific Gas and Electric Company
ROW	right of way
SAA	Streambed Alteration Agreement
USACE	United States Army Corps of Engineers
USC	United States Code
USFWS	United States Fish and Wildlife Service

1.0 Introduction

Pacific Gas and Electric Company (PG&E) is conducting investigative and remedial activities at the Topock Compressor Station under the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). Recently completed activities include construction of a pipeline associated with the Interim Measures (IM) No. 3 groundwater extraction and treatment facility (the "PE-1 Pipeline"), and installation of wells associated with a pilot study of *in-situ* treatment technologies (the "Floodplain *In-situ* Pilot Study"). These activities were described in the July 2005 *Design Plan Conveyance Piping and Power Supply for Extraction Well PE-1, Topock Compressor Station* (CH2M HILL 2005e) and the August 2005 *In-Situ Hexavalent Chromium Reduction Pilot Test Work Plan* (MHW 2005), and the December 2005 addendum thereto (Arcadis 2005).

The PE-1 Pipeline was approved by DTSC in a letter dated October 5, 2005, pursuant to a prior Notice of Exemption issued under the California Environmental Quality Act (CEQA) (DTSC 2005a). The Floodplain *In-situ* Pilot Study was approved by DTSC in a letter dated December 12, 2005, following completion and adoption of a CEQA Negative Declaration (DTSC 2005b). These projects are located on lands managed by the United States Bureau of Land Management (BLM). Prior to issuing approval, the BLM requested preparation of a Biological Assessment (BA) pursuant to Section 7 of the federal Endangered Species Act (FESA). In response to this request, the November 2005 *Biological Assessment for the Pacific Gas and Electric Topock Compressor Station Remedial and Investigative Actions* (CH2M HILL 2005h) was prepared and submitted to BLM. Following completion of this BA and the associated consultation between BLM and the United States Fish and Wildlife Service (USFWS), BLM approved these activities in a letter dated December 9, 2005 (BLM 2005). The project authorizations and approvals are provided in Appendix A.

The purpose of this report is to fulfill Condition 18 of the November 2005 BA which states that within 30 days of completion of construction activities, the field contact representative (FCR) and biologist will prepare a brief report documenting the effectiveness and practicality of the minimization measures and making recommendations for modifying the measures to enhance species protection. This report also provides information on awareness training sessions, pre-activity surveys, compliance monitoring, and land use. Construction of the subject activities was completed March 1, 2006; this completion report has been prepared for submittal to the BLM and USFWS by March 31, 2006.

1.1 Regional Environmental Setting

The Topock Compressor Station is located near Needles, California. Agriculture and public lands along the surrounding landscape dominate the area. Public lands in the area are owned and managed by a number of federal and regional agencies including the BLM, USFWS, United States Bureau of Reclamation (BOR), and San Bernardino County.

Dominant features of the area include the Colorado River to the east, the Chemehuevi Mountains to the west, and Interstate 40 (I-40) that links Barstow, California and Topock,

Arizona. Topography in the area is abrupt, rising from around 450 feet above mean sea level (msl) at the Colorado River to over 1,200 feet above msl within one mile to the south and southwest. Slopes encountered west of the river reflect a series of ancient river terraces. The regional vicinity of the Topock Compressor Station is shown on Figure 1.

1.2 Project Location

The two project elements addressed in this report are both located within the western floodplain of the Colorado River, to the north of I-40 and the Burlington Northern-Santa Fe Railroad (BNSF) railroad, and east of Park Moabi Road. The two project elements addressed in this report are located on land owned by the BOR and managed by the BLM.



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The project consisted of two elements: construction of a subsurface pipeline and groundwater well installation. The two project elements are described in the following sections. The project site location and associated facilities are depicted in Figure 2.

2.1 PE-1 Pipeline Construction

The PE-1 pipeline was installed between December 12, 2005 and January 27, 2006. The piping and conveyance system consists of underground influent piping and electrical conduit between the PE-1 extraction well and MW20 bench. The pipeline right-of-way (ROW) was approximately 50 feet wide. Vegetation including salt cedar and arrowweed were removed from within the ROW. Additional details may be found in the July 2005 *Design Plan Conveyance Piping and Power Supply for Extraction Well PE-1, Topock Compressor Station* (CH2M HILL 2005e).

2.2 Floodplain In-situ Pilot Study Well Construction

Well construction for the Floodplain *In-situ* Pilot Study included drilling and well installations between January 23 and March 1, 2006. One injection well cluster and six monitoring well nests were installed in the area east of the MW-20 bench. The wells were located directly within or adjacent to the PE-1 pipeline ROW. All wells were installed during one mobilization. The wells were drilled using a rotosonic drilling rig equipped with a 10-inch outside diameter drill casing. Additional details may be found in the August 2005 *In-Situ Hexavalent Chromium Reduction Pilot Test Work Plan* (MHW 2005), and the December 2005 addendum thereto (Arcadis 2005).



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3.1 Federal Regulations and Standards

The following are the various applicable federal regulations and policies, provided here for general information purposes.

- Federal Endangered Species Act, including the coordination requirement of Section 7 (16 U.S. Code [USC] §§1531 *et seq.*; 50 Code of Federal Regulations [CFR] Part 402). Section 9 of FESA prohibits the "take" of species federally listed as threatened or endangered. "Take" is further defined to include any harm or harassment, including significant habitat modification or degradation that could potentially kill or injure wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. "Take" incidental to otherwise lawful activities can be authorized under Section 7 of FESA, where a federal agency is involved.
- Migratory Bird Treaty Act (16 USC 703-712; 50 CFR 10). The federal Migratory Bird Treaty Act prohibits the "take" of migratory birds, unless permitted. The definition of 'take', as defined by 50 CFR 10.12, means to pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to pursue, hunt, shoot, wound kill, trap, capture, or collect for parts thereof).

3.2 State Regulations and Standards

The following are the various applicable state regulations and policies, provided here for general information purposes.

- California Endangered Species Act (California Fish and Game Code §§2050 *et seq.*). Section 2050 of the California Fish and Game Code prohibits any activities that would jeopardize or "take" a species listed as threatened or endangered within the state. CDFG Code §86 'Take' is defined as hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill. Projects that have the potential to impact species listed as threatened or endangered by the state might require an Incidental Take Permit from the California Department of Fish and Game (CDFG) under Section 2081 of the Fish and Game code.
- CDFG Code 1600 Streambed Alteration Agreement (California Fish and Game Code §1600). Section 1600 of the Fish and Game Code regulates the alteration of the bed, bank, or channel of a stream, river, or lake, including dry washes. Generally, CDFG asserts jurisdiction up to the top of significant bank cuts or to the outside of any riparian vegetation associated with a water course. Activities that have the potential to affect jurisdictional areas can be authorized through issuance of a Streambed Alteration Agreement (SAA).

• California Fully-protected Wildlife Species Provisions (California Fish and Game Code §§3511, 4700, 5050, and 5515). These provisions prohibit the taking of fully-protected birds, mammals, amphibians, and fish.

As per the BLM stipulations described in the Action Memoranda, awareness training was provided to personnel before commencing construction activities. The awareness training focused on the desert tortoise (*Gopherus agassizii*) and southwestern willow flycatcher (*Empidonax traillii extimus*) for activities in the upland and floodplain project areas, respectively. CH2M HILL and GANDA biologists provided training to all onsite personnel prior to initiating work activities. The core groups were trained at the project kick-off meetings and new personnel were identified at safety meetings each morning before work. Training included a discussion of species description, habitat, natural history, threats, legal protection under the Endangered Species Act(s), potential penalties, current survey findings, management, and protection measures. Applicable protection measures identified in the BLM approval letter dated December 9, 2005 were reviewed with staff. Attendance was documented on sign-in sheets which are provided in Appendix B.

5.0 Pre-Activity Surveys

Prior to construction activity, sites were surveyed for sensitive biological resources. No desert tortoises, southwestern willow flycatchers, or nesting bird species were observed during the pre-activity surveys. In accordance with the BLM stipulations, sensitive vegetation was excavated from the project footprint and transplanted away from construction activity. The transplanted vegetation was identified to species and a Global Positioning System (GPS) unit (Trimble Geo XT) was used to document the original and relocation sites. The locations of the transplanted vegetation may be found in Figure 2. Flora and fauna observed during the pre-activity surveys and construction monitoring are listed below in Table 1.

List of Observed Plants and Wildlif	e Incidental to Pre-activity Surveys and Daily Monitoring
Common Name	Scientific Name
Plants	
Arrowweed	Pluchea sericea
Allscale saltbush	Atriplex polycarpa
Beavertail cactus	Opuntia basilaris
Brittlebush	Encelia farinosa
Brome	Bromus sp.
Burrobush	Ambrosia dumosa
Catclaw	Acacia greggii
Cheesebush	Hymenoclea salsola
Creosote bush	Larrea tridentata
Dalea	Dalea mollisma
Desert trumpet	Eriogonum inflatum
Fishhook cactus	Mammillaria dioica
Honey mesquite	Prosopis glandulosa
Jumping cholla	Opuntia bigelovii
Anderson's wolfberry	Lycium andersonii
Ocotillo	Fonquieria splendens
Palo verde	Cercidium microphyllum
Russian thistle	Salsola tragus
Saltcedar	Tamarix ramosissima
Screwbean mesquite	Prosopis pubescens

TABLE 1

TABLE 1

List of Observed Plants and Wildlife Incidental to Pre-activity Surveys and Daily Monitoring

Common Name	Scientific Name
Smoke tree	Dalea spinosa
Spiny rigid herb	Chorizanthe rigida
Sweetbush	Bebbia juncea
Reptiles	
Sagebrush lizard	Sceloporus graciosus
Side-blotched lizard	Uta stansburiana
Western whiptail	Cnemidophorus tigris
Birds	
American coot	Fulica Americana
Anna's hummingbird	Calypte anna
Blue-gray gnatcatcher	Polioptila caerula
Brewer's blackbird	Euphagus cyanocephalus
Common raven	Corvus corax
Gambel's quail	Callipepla gambelii
Great-blue heron	Ardea herodias
Great egret	Ardea alba
Great-tailed grackle	Quiscalus mexicanus
Greater roadrunner	Geococcyx californianus
Lesser nighthawk	Chordeiles acutipennis
Mourning dove	Zenaida macroura
Rock dove	Columba livia
Turkey vulture	Cathartes aura
White-crowned sparrow	Zonotrichia leucophrys
Mammals	
Black-tailed hare	Lepus californicus
Cottontail rabbit	Sylvilagus audubonii
Coyote	Canis latrans
Desert woodrat	Neotoma lepida

Biologists were onsite full-time during all construction and ground-disturbing activity to ensure compliance with the BLM stipulations. The first day of compliance monitoring started on December 12, 2005 (start of PE-1 pipeline construction) and was completed on March 1, 2006. The PE-1 pipeline construction and Floodplain *In-situ* Pilot Study well installations were completed in compliance with the BLM stipulations. Activities occurring within the project site were documented on Daily Compliance Monitoring Forms (Appendix C).

7.0 Land Use

Various past activities have resulted in previous land use of the general area where the construction occurred. The area is traversed by a major railway line, several gas pipelines, historic U.S. Route 66, and the National Old Trails Highway. During design, much care was taken to avoid impacts to sensitive biological resources. The project staging area was located in the previously disturbed area at the MW20 Bench. Additionally, the BLM-approved floodplain access route for groundwater well sampling within the floodplain was used to travel to the project site. This route was clearly staked and flagged to prevent equipment straying and minimize surface disturbance.

To assess land use associated with the PE-1 pipeline construction and Floodplain *In-situ* Pilot Study well installation, a survey using a GPS unit was conducted to delineate the areas subject to construction activities. Such activities included clearing, grading, trenching, and backfilling associated with the PE-1 pipeline and installation of groundwater wells associated with the Floodplain *In-situ* Pilot Study. Data collected during the GPS survey was imported into the Geographic Information System (GIS) that is maintained for the Topock project. A polygon was defined for the area used as a result of the construction activities (Figure 2). The acreage of the polygon was determined, and the total land use area resulting from PE-1 pipeline construction and Floodplain *In-situ* Pilot Study well installation activities was calculated. The access route and staging area were not included in the land use calculation because these areas had been previously used and will continue to be used by project personnel for other investigative and remedial activities associated with the Topock Compressor Station.

The total amount of land use resulting from project construction activities was approximately 0.88 acre. Of this total, the PE-1 pipeline accounts for about 0.85 acre. The Floodplain *In-Situ* Pilot Study used approximately 0.13 acre; however, most of this area overlapped with the PE-1 pipeline area resulting in a net increase in land use of about 0.03 acre. Within the 0.88-acre total area, approximately 0.19 acre of arrowweed (*Pluchea sericea*) and 0.22 acre of saltcedar (*Tamarix ramosissima*) were removed. The honey mesquite (*Prosopis glandulosa*) located near the pipeline ROW at the toe of the MW20 bench was avoided. Only minor trimming of saltcedar was necessary for the Floodplain *In-situ* Pilot Study well installations. Pre- and post-construction photographs (Appendix D) were taken from photo point locations identified in Figure 2. Construction of the PE-1 pipeline and Floodplain *In-situ* Pilot Study facilities was approved by the county, state and federal regulatory agencies. In conformance with BLM's stipulations, personnel were provided with awareness training and pre-activity surveys were conducted of all areas subject to construction use. Under the terms of the BLM approval, construction work was conducted in areas where significant biological resources were not present. In addition, appropriate physical barriers were placed and construction activities were continuously monitored by qualified biologists to ensure the protection of biological resources.

The minimization measures were effective and met the requirements of the BLM. There are no recommendations for modifying the measures to enhance species protection. The project was conducted under a "may affect, not likely to adversely affect" determination for the southwestern willow flycatcher and a "no affect" determination for the desert tortoise. In compliance with these determinations, there was no "take" of these species.

9.0 References

- Arcadis. 2005. Final Addendum to the *In-Situ Hexavalent Chromium Reduction Pilot Test Work Plan – Floodplain Reductive zone Enhancement* for the Pacific Gas and Electric Company Topock Compressor Station. December 5.
- California Department of Toxic Substances Control (DTSC). 2005a. Letter from Norman Shopay/DTSC to Yvonne Meeks/PG&E. Subject: Conditional Approval of Final Design Plan, Conveyance Piping and Power Supply for Extraction Well PE-1. Oct. 5.

_____. 2005b. Letter from Norman Shopay/DTSC to Yvonne Meeks/PG&E. Subject: Approval of Floodplain In-Situ Work Plan. Dec. 12.

CH2M HILL. 2004. Final Biological Resources Investigations for Interim Measures No. 3: Topock Compressor Station Expanded Groundwater Extraction and Treatment System San Bernardino County, California. September.

______. 2005a. Work Plan for Special Status Species Survey within the Area of Potential Effect (APE), Topock Compressor Station, Needles, California. March.

______. 2005b. Biological Resources Survey Report for the Area of Potential Effect (APE) Topock Compressor Station Expanded Groundwater Extraction and Treatment System Needles, California. October.

_____. 2005c. Land Area Subject to Groundwater Well Installation Biological Resources Monitoring – Completion Report Topock Project Site, Needles, California. April.

_____. 2005d. Interim Measures No. 3, Land Use Area – Technical Memorandum. July.

_____. 2005e. Design Plan Conveyance Piping and Power Supply for Extraction Well PE-1, Topock Compressor Station, Needles, California. July.

______. 2005f. Biological Resources Completion Report for Interim Measures No. 3: Topock Compressor Station Expanded Groundwater Extraction and Treatment System Needles, California. September.

_____. 2005g. Site Access and Sampling Procedures for Groundwater Monitoring Wells Located Near Potential Southwestern Willow Flycatcher Habitat, Rev. 2. September.

_____. 2005h. Biological Assessment for the Pacific Gas and Electric Topock Compressor Station Remedial and Investigative Actions. November.

- MHW. 2005. In-Situ Hexavalent Chromium Reduction Pilot Test Work Plan, Floodplain Reductive Zone Enhancement. August.
- U.S. Bureau of Land Management (BLM). 2005. Letter from Timothy Z. Smith / BLM to Yvonne Meeks/PG&E. Subject: Bureau of Land Management (BLM) authorization to proceed with the PE-1 pipeline and the *in situ* Floodplain Pilot Study Workplan. Dec. 9.

Appendix A Authorizations and Approvals



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Lake Havasu Field Office 2610 Sweetwater Avenue Lake Havasu City, AZ 86406-9071 928-505-1200 www.az.blm.gov TAKE PRIDE

In Reply Refer To: CAAZCA 43660 (300)

December 9, 2005

Yvonne Meeks Portfolio Manager – Site Remediation Pacific Gas & Electric Company 4325 South Higuera Street San Luis Obispo, California 93401

RE: Bureau of Land Management (BLM) authorization to proceed with the PE-1 pipeline and the *in situ* Floodplain Pilot Study Workplan.

Dear Ms. Meeks:

This letter authorizes Pacific Gas & Electric (PG&E) to commence installation of the PE-1 pipeline and the *in-situ* Floodplain Pilot Study, consistent with the provisions of PG&E workplans previously submitted and the recent technical addendum to the *in situ* Floodplain Pilot Study Workplan.

This authorization is subject to the following specific conditions of approval:

- Staging of any roll off bins will take place solely on the MW-20 Bench. PG&E may not stage anything across from the IM #3 facility;
- Consistent with previous authorization of field activities, PG&E must provide an archeological and biological monitor to monitor all field activities related to the PE-1 pipeline installation and the *in situ* Floodplain Pilot Study;
- Any spoil materials from the trenching of the PE-1 pipeline that are not returned to the trench may only be used for road repair with prior approval from San Bernardino County;
- PG&E must stake the boundaries of the access route to keep vehicle traffic within these boundaries;
- During PE-1 pipeline construction, PG&E may install an additional electrical supply line within the trench while the trench is open, consistent with specifications previously submitted by PG&E.

Installation of these facilities on public land is within the scope of Action Memorandum #3 (September 17, 2004) by which BLM authorized a time critical removal action pursuant to the

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). All Conditions specified by that Action Memorandum apply to this authorization and will continue to be enforced.

If you have any questions concerning this authorization to precede please contact BLM Project Manager Cathy Wolff-White at (928) 505-1309.

Sincerely,

/S/ Patricia A Taylor for Timothy Z. Smith Field Manager

cc: Norman Shopay Department of Toxic Substances 700 Heinz Avenue, Suite 200 Berkley, California 94710-2721

> Linda Otero Fort Mohave Tribe PO BOX 5990 Mohave Valley, Arizona 86440

Julie Eakin CH2Mhill 155 Grand Avenue, Suite 1000 Oakland, California 94612 CWolff-White:hb:12/09/05:PGE approval pe-1pipeline in situ12 8 05



Alan C. Lloyd, Ph.D Agency Secretary Cal/EPA 700 Heinz Avenue, Suite 100 Berkeley, California 94710-2721

94710-2721

October 5, 2005

Ms. Yvonne Meeks Portfolio Manager - Site Remediation Pacific Gas and Electric Company 4325 South Higuera Street San Luis Obispo, CA 93401

CONDITIONAL APPROVAL OF FINAL DESIGN PLAN, CONVEYANCE PIPING AND POWER SUPPLY FOR EXTRACTION WELL PE-1, PACIFIC GAS AND ELECTRIC COMPANY, TOPOCK COMPRESSOR STATION, NEEDLES, CALIFORNIA (EPA ID NO. CAT080011729)

Dear Ms. Meeks:

The Department of Toxic Substances Control (DTSC) has completed our review of the Final Design Plan, Conveyance Piping and Power Supply for Extraction Well PE-1, dated July 29, 2005 (PE-1 Design Plan). DTSC is providing approval of the PE-1 Design Plan with the following conditions:

- PG&E shall obtain all necessary approvals and/or permits from applicable federal, state, county and local agencies as required. Prior to commencing any ground disturbing activities, PG&E shall provide written notification to DTSC listing all applicable permits and/or approvals that have been obtained.
- Beginning on October 14, 2005, PG&E shall prepare and submit weekly construction progress reports. These weekly progress reports shall continue until final construction has been completed.
- Within 30 days of completion of construction activities, PG&E shall submit a copy of the revised as-built construction drawings to DTSC.
- 4. Section 2.2.4, 3rd paragraph, indicates a third spare 2-inch conduit may be installed to accommodate future performance monitoring requirements. PG&E shall install this spare 2-inch conduit at this time due to future site access issue. In addition, PG&E shall install an additional level sensor to differentiate flooding vs piping leak inside the well vault.
- 5. PG&E shall install a T with blind flange and valve at valve vault No. 1 to allow for





Amold Schwarzenegge Governor Ms. Yvonne Meeks October 5, 2005 Page 2 of 2

expedited connection of PE-2 in the future (see meeting minutes dated July 14, 2005). This has not been reflected on Drawing TP-PI-20-02-02 yet.

If you have any questions, please contact me at (510) 540-3943.

Sincerely,

Jorman Shopau

Norman Shopay, P.G. Project Manager Geology, Permitting and Corrective Action Branch

NTS/180A

cc: PG&E Topock Consultative Workgroup Members - Via e-mail

Jasie Me. Meeks

The Department of Toxic Substançes Control (DTSC) Fas completed our review of the Final DeSgn Plan, Conveyance Piping and Power Supply for Extraction Well PE-1, dated July 29, 2005 (PE-1 Design Plan). DTSC is providing equipival of the PE-1 Design Plan with the following conditions:

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 Within 30 days of completion of construction activities, PO&E shall submit a copy of the revised as built construction drawings to DTSO.

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5. PG8E shell install a T with bind famae and valve at valve you't kin. The allew for



The Department of Toxic Substances Control (DTSC) has completed our review of the August 2005 In-Situ Hexavalent Chromium Reduction Pilot Test Workplan – Floodplain Reductive Zone Enhancement and the Technical Addendum dated December 8, 2005 DTSC is providing conditional approval of the Workplan as follows:

APPROVAL OF FLOODPLAIN IN-SITU WORKPLAN DATED AUGUST 2005 AND TECHNICAL ADDENDUM DATED DECEMBER 8, 2005, PACIFIC GAS AND ELECTRIC

COMPANY, TOPOCK COMPRESSOR STATION, NEEDLES, CALIFORNIA

- DTSC has reviewed the proposed changes to the Workplan presented in the Technical Addendum dated December 8, 2005. The PG&E cover letter to the Technical Addendum states that " the project description and impact conclusions provided in the October 2005 CEQA Initial Study/Negative Declaration prepared and distributed by DTSC remain valid". Please note that it is the responsibility of DTSC as the lead regulatory agency to review any proposed changes and determine if implementation of these activities will result in any significant impacts to the environment.
- PG&E is proposing modifications to the August 2005 workplan. The following is a summary of some of the key modifications.
 - a. Eliminate the use of 7,947 pounds of emulsified vegetable oil in each well and use only 500 pounds of lactate initially in each well;
 - b. Add one additional injection well and reduce the well screen interval from 40 feet in each well to 10 feet and change the well screen material from PVC to stainless steel wire-wrapped screen. The well installation activities are anticipated to require two additional days to complete. With the addition of one well the amount of clean water injected will increase from 12,000 to 18,000 gallons;
 - c. The previous single tracer (bromide) will be replaced with three separate tracers (flourescein, bromide and iodide) in each well; and

December 12, 2005

Ms. Yvonne Meeks Portfolio Manager - Site Remediation Pacific Gas and Electric Company 4325 South Higuera Street San Luis Obispo, CA 93401

(EPA ID NO. CAT080011729)

Dear Ms. Meeks:

ilitoma Ehvironmenial 2001kv Aci (C

700 Heinz Avenue, Suite 100

Berkeley, California 94710-2721

Department of Toxic Substances Control





Arnold Schwarzenegger

Governor

3

Alan C. Lloyd, Ph.D

Agency Secretary Cal/EPA

100

Ms. Yvonne Meeks December 12, 2005 Page 2 of 2

d. Modify the groundwater monitoring schedule and list of analytes.

DTSC's evaluation under the California Environmental Quality Act (CEQA) determined that implementation of the modified Workplan activities will result in less than significant impacts to the environment.

- PG&E shall obtain all necessary approvals and/or authorizations from applicable federal, state, county and local agencies as required. Prior to commencing any field activities, PG&E shall provide written notification to DTSC listing all applicable approvals and/or authorizations that have been obtained.
- PG&E shall not commence the injection of any lactate until receiving authorization from the Regional Water Quality Control Board (RWQCB) upon adoption of Waste Discharge Requirements.
- PG&E shall however commence the installation of wells prior to receiving final authorization from the RWQCB. PG&E shall then proceed to obtain two baseline sampling events from the wells.
- PG&E shall provide a minimum of seven (7) days notice prior to commencing any field activities.
- Prior to the start of field activities, PG&E shall schedule and host a pre-construction kickoff meeting. PG&E shall provide DTSC a minimum of seven (7) notice of the meeting date.
- 8. A biological and cultural resource monitor shall be onsite prior to and during the movement and setup of drilling equipment.

If you have any questions, please contact me at (510) 540-3943.

Sincerely,

Norman Shopaul Norman Shopay, P.G.

Project Manager Geology, Permitting and Corrective Action Branch

NTS/190A

CC:

PG&E Topock Consultative Workgroup Members - Via e-mail

The previous single trader (brainide) will be popleced with these separate trader Nourascein, bromitte and locide) in each welt, and

Appendix B Awareness Training Sheets

Hoject: 17-1 Apeline Instructor: naynomeno

Biological Resources Awareness Training Attendance Sheet Pacific Gas and Electric Topock Project

in this training. Your signature constitutes an agreement to abide by the biological resources avoidance and minimization measures presented

12-14-05	12-14-05	12/14/05	12/14/05	12/12/05	nInlos	12/12/05	12/12/05	12/12/05-	12/12/05	12-12-05	12-12-05	12-12-05	12-17-05	12-12-05	12-12.05	12-17-08	SPIRITE	12/12/05	12/12/05	. Date
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Pacific Gas and Electric Topock Project

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Susan Stratton via telephone

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Biological Resources Awareness Training Attendance Sheet Pacific Gas and Electric Topock Project

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Appendix C Compliance Monitoring Forms

		IT: <u>R.C.</u> G	: (man	al.		E: 1 3.1 ole START/END TIME: 0630-	170 (
			<u>, , , , , , , , , , , , , , , , , , , </u>		V		
		Condition		Y/N		Comments	
Pro	oject in ca	ompliance? If not, d	escribe below.	ØYes □No			
Wo	ork activit	ies within approved	ROW?	QİÝes ∐No			
Equ app	uipment proved a	l within	⊠Yes □No				
Сте	ew traine	d on biological mea	isures?	ØYes ⊡No			
Ve spe	getation ecies and	impacts avoided? If quantify impacts b	f not, describe elow.	∐Yes Mo	ICE	Leosote bush Removed (Approx 4' WIDE Me At the WIDEST POINT	ajure 5).
Sile act	e survey iivities?	ed for biota prior to	work				
Site	e free of	special status spec	ies?				
ma	e clean a iterial/tra	sh?	s/stray				
Sp	eed limit	obeyed?			hiologic	al observations general site issues)	
	Time	Location	Construct	tion Acti	vity	General Observations	Photos
06	30 - 700	FLOODPLAIN DELO	DEILLING				1
07	1700	WASH JUST E. OF FAR-EAST MES	WIDENING TO CULVER	ENTRA	ACE	I creosote bush removed (see Above).	
070	1645	WASH JUST E. OF EAST MEDA	PACK Fill M AROUND 2 A	lew Cult	L KETS-	Unler HISTORIC RONTE 66.	
[0	1600	FLOODPLEIN 6/4 RR&I-40,	I REIGATICH	ISTALL	ED .		
n	Non-C	OMPLIANCE ISS			TIONS	/NOTES	
Bio- Meas	sure						Photo
£					_		
						· · · · · · · · · · · · · · · · · · ·	
							_
				· · · · · · · · · · · · · · · · · · ·			

BIOLOGIST: Rob Gilman		DATE: 2/ 1/06	START/END TIME: 0630	>-1200
WEATHER: $T = 6S - 75^{\circ}F$,	Clear,	WIND = S-10 MP	H	

Condition	Y/N	Comments
Project in compliance? If not, describe below.	⊠Yes ⊡No	
Work activities within approved ROW?	ØYes □No	
Equipment and material staged within approved areas?	⊠Yes ⊡No	
Crew trained on biological measures?	XiYes ⊡No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	⊠Yes ⊡No	
Site surveyed for biota prior to work activities?	XYes □No	
Site free of special status species?	XYes ⊡No	
Site clean and free of fuel leaks/stray material/trash?	No No	
Speed limit obeyed?	⊠KYes ⊡No	

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
0130-	FLOWPlain below HV-20 Bench.	Denne ceew: Cleanup.	Approx,	
0700-	WASH JUST E. CFEAST MESA	PACK Fill material AROUND 2 New Colverts	Near completion, ABD Tons of Fill	
0700-	Freesplain UNDER RR & I-40.	IREIGATION INSTALLED,	OF Fill & Mip-Man were placed	
			in the witsh. The Dimentions of	
			the wash when approx. 50 feet	
			Cat the deepest portion of the wa	sh),

NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio-	Photo #
Measure	
#	

BIOLOGIS	T: Jeff Stein	Mau			TE: 2/6/06 START/END TIME: 0630 - 19	0
VEATHER	: clear, win	der 5% cld	<u>, ~76</u>	<u>^</u>		
	Condition		Y/N		Comments	
Project in compliance? If not, describe below.		⊠Yes ⊡No				
Work activities within approved ROW?		⊠Yes □No				
Equipment and material staged within approved areas?		ArrYes ⊡No				
Crew trained	l on biological mea	isures?	⊠Yes □No	Tina	ined Rick Ricks / Trained and drill crew at 9%	" meeting
Vegetation i species and	mpacts avoided? If quantify impacts b	not, describe elow.	⊠Yes ⊡No			
Site surveye activities?	d for biota prior to	work	⊠Yes ⊡No			
Site free of	special status spec	ies?	X Yes □No			
Site clean a material/tras	ha free of fuel leak:	s/stray				
Speed limit	obeyed?		No			
Time	Location	Construction a	ion Activ	vity	General Observations General Observations	Photo#
1300	well C	Survey			Surveyed acces and fwell location for	
-		- 0			bent placement with Jay + Dave Tomos+ ad	Т
1300	well C	Photo take	m of	m	Il Clocation From Colorado locking at M	wao
1400	Mart Jun	Privest (new	bìo.	w blm) discuss surre	<u> </u>
1570	seet with	Tomas au	X du	<u>scu 45</u>	access for IMPM nalls B, A	
1615	ucet with	Jessien	LISCUM	5 K	reprize well holes covered overnight	
NON-C	OMPLIANCE ISS	UES/CORREC	TIVE AC	TIONS	/Notes	
Bio- Measure #		_				Photo #
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	· · ·					

BIOLOGIST: Jeff Steinman	DATE: 217/06	START/END TIME: 0630 - 1700
WEATHER: 590 clard	cour, winds afternaan	

Condition	Y/N	Comments
Project in compliance? If not, describe below.	⊠Yes ⊡No	
Work activities within approved ROW?	ØYes □No	
Equipment and material staged within approved areas?	⊠Yes ⊡No	
Crew trained on biological measures?	Yes No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	⊠Yes ⊡No	
Site surveyed for biota prior to work activities?	⊠Yes □No	
Site free of special status species?	ØYes □No	
Site clean and free of fuel leaks/stray material/trash?	⊠Yes ⊡No	
Speed limit obeyed?	⊠Yes □No	

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations				
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ono			one-triuning				
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1300	: <u></u>	J . J	env. training				

NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio-	Photo #
Measure #	
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OLOGIS.	T: Jeff Steine	nay	D/	ATE: 2 8 06 START/END TIME: 0630 - 170	0 1730
EATHER	Cler u	undy in at	Ternoon		
	Condition		Y/N	Comments	
roject in co	mpliance? If not, d	escribe below.	IXIYes ⊡No		
Vork activiti	es within approved	ROW?	∐Yes □No		
quipment a	ind material staged eas?	l within	⊠Yes ⊡No		
rew trained	l on biological mea	asures?	⊠Yes ⊡No		
egetation in pecies and	mpacts avoided? If quantify impacts b	f not, describe elow.	I¶Yes □No		
ite surveye ctivities?	d for biota prior to	work	⊠Yes ⊡No		
lite free of s	pecial status spec	ies?	IXIYes ∏No		
naterial/tras	h?	s/suby			
Speed limit	beyed?	t construction a			
Time	Location	Construct	ion Activity	General Observations	Photo#
0700	IH3	Solati met	tin		
000		Rand cree	3	meet w Ron of CM.N For Maps/culuets	yes
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00	drill C	ENPM and	(Clean the spilling from prump. crew stops	lak.
00 	West rood	placing ri	oprap.	Corkseven Acaena has possible woodant nost	
270	MWJDbauch	creus usin	y and acc	iep nood start point. Son to get imptron	3ry
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TOME I OPOCK PROJECT Daily Construction Monitoring Log

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	Condition		V/N					Common	hc		
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Project in co	mpliance? If not, de	scribe below.	IZIYes ⊡No								
Work activitie	es within approved I	ROW?	DAYes □No								<u></u>
Equipment a approved and	nd material staged eas?	within	⊠Yes □No								
Crew trained	l on biological meas	ures?	⊠Yes ⊡No								
Vegetation in species and	npacts avoided? If i quantify impacts be	not, describe low.	IØYes □No								
Site surveye activities?	d for biota prior to w	rork	ØYes ⊡No						_		
Site free of s	pecial status specie	s?									
Site clean an	nd free of fuel leaks	stray	XYes					.			
material/tras	h?		Dives								·
OBSER	VATIONS (relevant	construction a	<u> LINO</u>	hiologia	al observ	ations	general	site iscues)			<u> </u>
Time	Location	Construct	ion Acti	vity		4001101	Gene	ral Observ	ations		Photo#
(X-2)	talland	2				<u></u>				<u> </u>	<u>`</u>
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1030	IMPM		<u> </u>		fter	duc	<u>U3554</u>	y with	Rolo	o Jay	
1330	Wildlife re	Fuzz	Con	w	trim	(Int	s df	tomas	wk /Pi	do verde	
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NON-C	OMPLIANCE ISSU	ES/CORREC	TIVE AC	TIONS	NOTES						J
Bio- Measure											Photo #
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T: Joff Ste	innau		DATE: 210/06	START/END TIME: 0630-	1200
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d for biota prior to	work	ØYes □No			
special status speci	ies?				
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obeyed?	A construction of		logical observations and	noral aita incuran)	
Location	Construct	ion Activit	y G	General Observations	Photo#
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Site clean and free of fuel leaks/stray	
Speed limit obeyed?	
OBSERVATIONS (relevant construction activities, biological observations, general site issues)	Choloff
Time Location Construction Activity General Observations	
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1070 Tailbear A Garring	
0670 Prose seperator phase seperator leaking all night	
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before filling.	
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Condition	Y/N	Comments	
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Vork activities within approved ROW?	⊠Yes ⊡No		
quipment and material staged within pproved areas?			
rew trained on biological measures?	∐ Yes □ No		
egetation impacts avoided? If not, describe pecies and quantify impacts below.	IndYes □No		
ite surveyed for biota prior to work ctivities?			
ite free of special status species?			
ite clean and free of fuel leaks/stray naterial/trash?	DalYes □No		
Speed limit obeyed?			
OBSERVATIONS (relevant construction a	ctivities, biolo	gical observations, general site issues)	
Time Location Construct	ion Activity	General Observations	Photo#
X630 20 benel		tailboard metric	
TOO 30 bunch		her Ofton Safety meeting	
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NON-COMPLIANCE ISSUES/CORREC	TIVE ACTION	IS/NOTES	
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station 26+00 one	ton rup	-rap North side	
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Condition	Y/N	Comments	
oject in compliance? If not, describe below.	ØYes □No		
Vork activities within approved ROW?			
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ite surveyed for biota prior to work activities?	⊠Yes □No		
Site free of special status species?			
bite clean and tree of fuel leaks/stray naterial/trash?	⊠Yes □No		
Speed limit obeyed?	⊠Yes ⊡No		
OBSERVATIONS (relevant construction a	activities, biolog	gical observations, general site issues)	
Time Location Construct	ion Activity	General Observations	P710(0#
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NON-COMPLIANCE ISSUES/CORREC	TIVE ACTION	IS/NOTES	
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NOLOGIS VEATHER	r:_Jaff_St	Zihuan		_DAT	E: <u>a/14/06</u> START/END TIME: 0690 - 17	30
	Condition		Y/N		Comments	
Project in co	mpliance? If not, d	lescribe below.	□Yes □No			
Work activiti	es within approved	ROW?	□Yes □No			
Equipment a approved an	nd material staged eas?	d within	□Yes □No			
Crew trained	l on biological mea	asures?	□Yes □No			
Vegetation i species and	npacts avoided? If quantify impacts b	f not, describe below.	☐Yes □No			
Site surveye activities?	d for biota prior to	work				
Site free of a	pecial status spec	ies?	∐Yes ∐No			
Site clean a	nd free of fuel leak	s/stray	∐Yes ⊡No			
Speed limit	obeyed?		□Yes □No			
OBSER	VATIONS (relevar	nt construction a	ctivities,	biologic	al observations, general site issues)	Dissint
Time	Location	Construct	ion Acti	vity 	General Observations	PTIOLO#
0670		Tailbean	d		B HOO Spill, clean, but looks book for	
0700		Sefery a	rector)) agencies, Discovery of Rowen west	
0730					Tonin Collin	
0830		In-site	crei	<u>ر</u> م د	pulled clean theo again said useldint	
					hopen agoin	
NON-C	OMPLIANCE ISS	UES/CORREC	TIVE AC	TIONS	/Notes	Photo #
leasure						
						<u>.</u>
						ļ
				~		

ENTHER	$-\frac{2}{2}$	and wind			
_	A	,	<u> </u>		
	Condition		¥/N	Comments	
Project in co	ect in compliance? If not, describe below.				-
Vork activit	es within approve	ed ROW?	ØYes ⊡No		
Equipment a	and material stage eas?	ed within			
Crew traine	d on biological me	easures?			
egetation i pecies and	mpacts avoided? quantify impacts	If not, describe below.	I2/Yes □No		
lite surveye ctivities?	ed for biota prior to	o work			
ite free of	special status spe	cies?			
naterial/tra	sh?				
	obeyed?				
Time	Location	Construction a	ion Activity	General Observations	Photo#
0630 0700		tailban sately m	welvy	discoss trucks avoiding vegetation	
		+		looking under vehicles	
0800	·	Watch c.	renk	morry drill vigs off of flood place	
1200		Creck	flood play	in for 155005	
Non-C	OMPLIANCE IS	SUES/CORREC	TIVE ACTION	IS/NOTES	Ebata #
easure					1-11010 10
1	Take co	molestion	hato a	f In-site	
	The la	parte his	aleater	HI / BZ of THOM-B	
	Inne ce	mper us	proces		
					1
					1

.

START/END TIME: 0635-1645 BIOLOGIST: DATE: 112 b tsunny insuind

	Condition		Y/N		Comments	
Project in co	mpliance? If not, de	escribe below.	I Yes □No			
Work activiti	es within approved	ROW?	In Pres □No			
Equipment and material staged within approved areas?			PYes □No	Ma	U20 bench	
Crew trained	d on biological mea	sures?	ØYes □No	a	ll crew trojnod	
Vegetation in species and	mpacts avoided? If quantify impacts b	not, describe elow.	⊡No			
Site surveye activities?	d for biota prior to	work	I Yes □No-			
Site free of s	special status speci	es?	⊡Yes ⊡No	сð	munon species cost below	
Site clean ar material/tras	nd free of fuel leaks h?	s/stray	ElYes □No			
Speed limit	obeyed?		∐ No		posted	
Time	Location	Construction a	ctivities, to on Activ	vity	General Observations, general site issues) General Observations	Photo#
0635	Muzo	CCT.			Brok Gilling topingh for PE-1	
u	и	Altheor	١		daein conduit/electrical	
U	и	ARB			Prep for hydrotest	
ıl	wesering	CCT			continue backfilling around cu	1215
					· · · · · · · · · · · · · · · · · · ·	
D NON-CO	OMPLIANCE ISSU	JES/CORRECT	IVE ACT	IONS/	Notes	
Bio- Measure	trench level	Allal *	Cit	£2	(Raw) smalling act. Huddet	Photo #
10	t wrok.	Contin	re li	ick	Fulling calverts, Kd built over	
C	ulierts.	Now a	acces	sch	lo	
	9-7-1-10-0					
		an a				
	A 11/1 - B 4 4		a Thaladaan Ingila da ya shi kuwa wa			
W	idite in	all dave	5, q.k	Jole	23, ravens, costs, queater equet	

BIOLOGIST: AND WOLD <u>16</u>55 111606 STARTIEND TIME: 0625-3 (207 mph), cold Emps (503 DATE: 1/16

Condition	Y/N	Comments	
Project in compliance? If not, describe below.	⊡res □No		
Work activities within approved ROW?	⊡Yes □No	ALLPS Stalled	
Equipment and material staged within approved areas?	Il Yes □No	MW20 ponch REFE TCS	
Crew trained on biological measures?	⊡Yes ⊡No	trained new ARB employee	1
Vegetation impacts avoided? If not, describe species and quantify impacts below.	Ino ⊡No	clears grub complete	
Site surveyed for biota prior to work activities?	⊡No	a thraighout day	
Site free of special status species?		- Common species list (AP/11)	
Site clean and free of fuel leaks/stray material/trash?		- chansite, lickup materials	
Speed limit obeyed?	⊡Yes □No	proced C Durph	
OBSERVATIONS (relevant construction a	ctivities, l	piological observations, general site issues)	
Time Location Construct	ion Acti	vity General Observations	Photo#
0630 REF Hardrote	sta	I support huddet	
0630 BEE Hydrote	st a	I support hydrotest	
0630 REF Hydrote 11 11 ARB 11 Westerly CCT	st ca	I support hydrotest hydrotest ballfill around culipits	
0630 REF Hydrote 11 11 ARB 11 Westerly CCT	st <u>c</u>	I support hydrotest hydrotest balkfill around culiputs	
0630 REF Hydrote 11 11 ARB 11 Westry CCT		I support hydrotest hydrotest balkfill around culliputs	
0630 REF Hydrote 11 11 ARB 11 Westerly CCT		I support hydrotest hydrotest balkfill around culiputs	
0630 REF Hydrote 11 11 ARB 11 Westerly CCT		I support hydrotest hydrotest balkfill around culiputs	
D630 REE Hydrote 11 11 ARB 11 USSETY CCT NON-COMPLIANCE ISSUES/CORREC		I Support hydrotest hydrotest ball fill around cullipits	
D630 BE Hydrote 11 11 ARB 11 USERTY CCT 11 Uddh CCT 1		I Support hydrotest hydrotest Dallful around culiperts FIONS/NOTES	Photo #
D630 BE Hydrote 11 11 ARB 11 USSPAY CCT 11 Uddh CCT DIACOMPLIANCE ISSUES/CORREC Bio- Bio- Measure ARB UNABLE DIAC INO MAIN - D	TIVE AC	I Support hydrotest hydrotest Dallfill around culipits FIONS/NOTES AS all air but of 1+-1 AST tomNDW. The t Chin Das	Photo #
D630 BE Hydrote 11 11 ARB 11 USSPILY CCT 11 USSPILY CCT 11 USSPILY 11 USS	TIVE AC	I Support hydrotest hydrotest Dallell around culiples Inns/Notes AS all air out of 14-1 365t tomorrow, June Glan ons AE-1, propring with things of	Photo#
D630 BE Hydrote 11 11 ARB 11 USSPAY CCT 11 USSPAY CCT 11 USSPAY 11 USSPA	TIVE AC	I Support hydrotest hydrotest Dallfell around culipits Inns/Notes A all air out of 17-1 3 test tomorrow, June Glan ons AE-1 pipeling Kynt, Johns, 2 (10 mestally with, Started Vinn	Photo# + R CICLU M
D630 BE Hydrote 11 11 ARB 11 USERTY CCT 11 USERTY CCT 11 USERTY CCT 11 USERTY 11 USERTY 11 USERTY CCT 11 USERTY 11 ARB 11 CCT 11 ARB 11 A	TIVE AC	I Support hydrotest hydrotest Dallfell around culipits Dallfell around culipits Inons/Notes As all air but of 17-1 365t tomorrow, June Glan ons AE-1 pipeling while Johns a (10 westally wear, Started lay)	Photo# t (R CICLU) M

wild tric: sparrows, qualities, costs

	PG&E TOPOCK PROJECT aily Construction Monitoring Log DATE: 1171.06 START/END TIME: 0635	- 1650
Condition	Y/N Comments	
Project in compliance? If not, describe below.		
Work activities within approved ROW?	INO access rd stalled	
Equipment and material staged within approved areas?	INO MWZO bench	-
Crew trained on biological measures?	INO TRAINOR Z CH personal	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	INO NO VED disturbed	
Site surveyed for blota prior to work activities?	Ino & Huarrout day	
Site free of special status species? Site clean and free of fuel leaks/strav	ENO COMMON SPECIES LIST bolow	
material/trash?	Dres and a Dunh	
OBSERVATIONS (relevant construction :	activities, biological observations, general site issues)	
DB3D EEE CCJ II II AKB II WESPIAY CCJ II TM3 PODIASO NON-COMPLIANCE ISSUES/CORREC	Support hydrotest Websest FE-1 appline back fill aidund culton n electrical work	AHS
Measure ALB Completed V Glen Chsite to Supporting ALB y WOTH ON back Jepaved Site O tomorrow, iPovers Plan to meet with On Thurs,	udiotest today, lassel test. Jim # pipe in HE-I @ Mullo bench, Co Muldiotest, CCT also contrained to filling allowers at west werest being set of westerly with. Allo COB, Mesquile trees are plained to be o effort abig MW43 access route on HI say on Thirs to wark soil sampling	Photo#

BIOLOGIST:_ WEATHER: _	Pay Asmora	<u>\0</u>	DATE: 1/18/06 START/END TIME: 0632-1647
	Condition	Y/N	Comments

P]Yes □No	
ØYes □No	
I PYes I No	
⊡Yes □No	all row trained
⊡Yes □No	
⊡No □No	& thraighout days
⊡Yes □No	common species list below
⊡Yes □No	clean site
⊡Yes □No	posted 10mph
	Yes Yes

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
0/30	MWZD	CHEMITIU	Plumlang of PE-1 nipe varit	
7630	westerul	CCI	Placement of riprap/road hose	~
1400	east the		stort downing out which now culler	17
	·			

NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio-	Luxpoly advance on the draw hands when a hadrow	Photo #
#	WISHIN ACCED TOUR COST AND TO WHAT REPENDS	
	Expect ion wesquite trees to be dolivered to day for min	
	offert of MW43 access route on the HUWR, placing	V
	FUP rop around cullents a westerly wash, Misquite +	MOS
	airived and the staged on HALUR. Poord w/ Robk. on a	lainting
	Scholules for not Monday. SW Gas will be pasite on	1
	Workey to pothide pipeling war unsh.	
	wildlife: a reat egret, costs, greater roadrunner, Gambol's go	vail,
	rock dours, sparrows, rauch	/

BIOLOGIS NEATHER	T: <u>Kallokov</u> R: <u>Clourna</u>	UND UNMO	of ra		ТЕ: 11.19106 START/END TIME: 0630-1 winduy (20+тура), сов немирь (505)	64 (
	Condition		Y/N		Comments	
Project in co	ompliance? If not, d	escribe below.	P]Yes □No			
Work activiti	ies within approved	ROW?	⊠Yes □No			
Equipment a approved an	and material staged reas?	l within	ØYes □No			
Crew trained	d on biological mea	sures?	⊡Yes □No	HV 0.(nod now konnow her	
Vegetation ispecies and	mpacts avoided? If quantify impacts b	not, describe elow.	⊠Yes □No			
Site surveye activities?	ed for biota prior to	work	⊡Yes □No	t	throughout day	
Site free of s	special status speci	es?		$\langle \rangle$	ommon species list below	
material/tras	sh?	silay	⊡No- ⊡Yes			
	ODEVED?	t construction a	Ctivities. bi		al observations, general site issues)	
Time	Location	Construct	ion Activ	ity	General Observations	Photo#
0630 10630	Hoodpain	CCI Adainsi			placing np rappotenti le fabri pulling wire thru conduit/vaut	Calling 400
D Non-C	OMPLIANCE ISSI	JES/CORREC	TIVE ACTI	ions/ May	Notes Not westing walk	Photo #
	withe-	i cod 5, iji	wachte	5,6	Soundeds Guail, reach daves,	

		0 - m - 1 - w			
	Condition		Y/N	Comments	
Project in co	mpliance? If not, d	escribe below.	ZVes		- <u>1849, p</u> . 4
Work activitie	es within approved	ROW?	XTYes TNo		
Equipment and material staged within approved areas? Crew trained on biological measures?			XYes DNo		
			DXYes DNo		
Vegetation in species and	npacts avoided? If quantify impacts b	f not, describe selow.	XYes ⊡No		0.
Site surveye activities?	d for biota prior to	work	XVes No		
Site free of s	pecial status spec	ies?			
material/tras	h?		⊡No Stres		-
		t construction a	<u>No</u>	nical chegovations, general site issues)	• • • • • • • • • • • • •
Time	Location	Construct	tion Activity	General Observations	Photo#
-70- 7		Removing	Fill at which	Plants AvoiDED	
2-1630	<u> </u>	DRILL CRE	W AERIVES	Plants Ausides (PROSONIC)	
200~1700		VACUM H	USE TRUCK	c ii	
		Removing is culvert.	DIET FROM		
Non C					
io- leasure	UNITLIANCE 133	DESIGORREG	ACTION		Photo #
1					
				·····	

UVINI INUULUI **Daily Construction Monitoring Log**

BIOLOGIST: Roz Gilman	DATE: START/END TIME: 0630-1700
WEATHER: Clear & WIND = 5 - 101	10H; T=55-65°F

Condition	Y/N	Comments
Project in compliance? If not, describe below.	ØYes ⊡No	
Work activities within approved ROW?	¶Z/Yes □No	
Equipment and material staged within approved areas?	A Yes	
Crew trained on biological measures?	j⊠Yes ⊡No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	D∑Yes □No	
Site surveyed for biota prior to work activities?	ØYes ⊡No	
Site free of special status species?	DYes ⊡No	
Site clean and free of fuel leaks/stray material/trash?	⊠¥es □No	
Speed limit obeyed?	∰Yes □No	

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
0945-1040	Floedplain below MW2D	DRICLING - IN-SITU	Equipat. Follote AT 10:40 AM	
09001138	Flood plain twice REG I-40	Fred Planting		
0730-	WASH JUST EAS F FAR-EAST MEN	REMOVE dist FROM C.	SWORT W/ Vacun	
0730-	WASH IMBOINT W. OF HE E. HO	Place new colverts	in WASH .s	
1400-1700	WASH SUST E. OF CWALL	WIDENing Inlet at	WASH (STALING EQUI PMENT)	

□ NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio-		Photo #
Measure *		
		F
	· · · · · · · · · · · · · · · · · · ·	

Incidentac Spacies: Desent cottontare, Common Raven, Rondrunnez, Turkey Vulture, WHITE-CROWNED SparRow

BIOLOGIST: Kob Grilman DATE: 1/25/04_START/END TIME[030 - 1700 WEATHER: Cleve, T. = (0 + 5' F, Wind = 0 - 5m pH Condition VN Comments Project in compliance? If not, describe below. Bio Project in compliance? If not, describe below. Bio Equipment anetarial staged within approved ROW? Bio Site sense and quantify impacts below. Bio Site and quantify impacts below. Bio Site deen and the of fuel leakadetray Bio Site deen and the of fuel leakadetray Bio Bio clean and the fuel leakadetray Bio Bio clean and the fuel leakadetray Bio Bio clean another and the of the leakadetray Bio Bio clean and the of			Dai	ily Con	struc	ction Monitoring Log	
WEATHER: $(1 \in v \in f)$ $f \in [0 \cap U^{S} \cap f]$ $U : n \in U^{S} \in S$ Candition YN Comments Project in compliance? If not, describe below. $E N \circ S$ Equipment and material staged within approved ROW? $E N \circ S$ Equipment and material staged within approved ROW? $E N \circ S$ Use status and the staged within approved ROW? $E N \circ S$ Proved areas? $E N \circ S$ Cew trained on biological measures? $E N \circ S$ Proved areas? $E N \circ S$ Count and material staged within approved ROW? $E N \circ S$ Ste surveyed for biola prior to work activities. $E N \circ S$ Ste surveyed for biola prior to work activities. $E N \circ S$ Ste face of special status species? $E N \circ S$ Ste face of special status species? $E N \circ S$ Ste face of special status species? $E N \circ S$ Time Location Construction activities, biological observations. Photos 7 Too: flow for the Note $E N \circ S \in S \cap	BIOLOGIS	ST: ROB G	Iman		DAT	TE: 1/25/06 START/END TIME (630 - 17	00
Candition YN Comments Project in compliance? If not, describe below. END END Work activities within approved ROW? END END Equipment and material staged within approved rease? END END Crew trained on biological measures? END END Vegetation impacts avoided? If not, describe END END Site stars? END END END Site stars? END END END END Site free of special status species? END END END END Site free of special status species? END END END END END Site free of special status species? END <	WEATHER	R: Cleare,	1 = 60 - 65	5° F, 1	ni h	d=O-Smpri	
Project in compliance? If not, describe below, DYes, DNo Work activities within approved ROW? Equipment and material staged within DYes, DNo Crew trained on biological measures? No Vegetation impacts avoided? If not, describe DYes, DNo Ste surveyed on biological measures? DNo Ste surveyed for biolar proto work addities? DNo Ste surveyed for biolar proto work DNo Ste free of spacial status species? DNo Ste free of spacial status species? DNo Ste clean and tree of fuel leak/stray DNo Ste clean and tree of fuel leak/stray DNo O OBSERVATIONS (relevant construction activities, biological observations, general site issues) Time Location Construction Activity General Obsorvations Protop The Activity Goog Plant Doc Diation Structorativities, biological observations, general site issues) Time Location Cost During Inform Doc Diation, Life Activity Gonost During Continue (Contraction Activity)		Condition		Y/N		Comments	
Work activities within approved ROW? Divestination Equipment and material staged within approved areas? Divestination Crew trained on biological measures? Divestination Wegetation impacts avoided? If not, describe precises and quantify impacts aboled? Divestination Ste precises and quantify impacts aboled? Divestination Ste free of special status species? Divestination Divestination Divestination Ste free of special status species? Divestination Divestination Divestination Discontin	Project in c	ompliance? If not, d	lescribe below.	DYes TNo			
Equipment and material staged within approved areas? Crew trained on biological measures? Vegetation impacts avoided? If not, describe West I Creasek 3.54 from and the second of the se	Work activit	ties within approved	ROW?	ZiYes			<u></u>
Crew trained on biological measures? Divo Crew trained on biological measures? Divo expectation impacts avoided? If not, describe BYes Site surveyed for biola prior to work activities? Site free of special status species? Site free of special status species? Site free of special status species? Divo Site free of fuel leaksistray material/msr? Doo DBSERVATIONS (relevant construction activities, biological observations, general site issues) Time Location Construction activities, biological observations, general site issues) Time Location Construction activities, biological observations, general site issues) Time Location Construction activities, biological observations Photoff Time Location Construction activities, biological observations, general site issues) Time Location Construction Activity General Observations Photoff Time Location Construction Activity General Observations Photoff Time Construction Activity General Observations Photoff Time Construction Activity General Observations Photoff Mich Construction Activity General Observations Photoff Mich Construction Activity Construction Activity Construction Activity Construction Construction Activity Construction Constr	Equipment	and material staged	1 within				
Megetation impacts avoided? If not, describe DYes I Creasely BLSH Removed at UASH JUST EAST OF Species and quantify impacts below. Site surveyed for biota prior to work BYes O C With I. Bush, Approx. If S wide at Widest previous advites? Site surveyed for biota prior to work BYes DNo Site free of special status species? BYes Site free of special status species? BYes Site free and free of fuel leaks/stray BYes Special min tobeyed? BYes OBSERVATIONS (relevant construction activities, biological observations, general site issues) Photof 7730- Completing the for the leaks/stray BYes 1/200 Respectively the status species? BYes 1/200 Construction activities, biological observations, general site issues) Photof 7730- Floopfunit tock Construction activity General Observations Photof 1/200 Respect Affect Construction activity Floop then'ts plants Photof 1/200 Respect Affect Construction activity Floop then'ts plants Photof 1/200 Respect Affect Construction activity Floop then'ts plants Photof 1/200	Crew traine	ed on biological mea	isures?				
Site surveyed for blota prior to work advities? Site free of special status species? DNo Site free of special status species? DNo Site clean and tree of fuel leaks/stray DNo Site clean and tree of fuel leaks/stray DNo Ste free of special status species? DNo DBSERVATIONS (relevant construction activities, biological observations, general site issues) Photoff 0730- Floorphrin Burd Issue for the construction Activity General Observations Photoff 16:30 CP 4 1:40 Neg planting the construction activity Issue for special status species and the construction activity A Wire of special status species and the construction activity 16:30 CP 4 1:40 Neg planting the construction activity Issue for special status special status species and the constru	Vegetation species and	impacts avoided? If d quantify impacts b	f not, describe selow.		10	reasole BUSH removed at WASH JUST EAST WHI BUSH Approx I S WIDE at W	JOF
Site free of special status species? Dirac Site clean and free of fuel leaks/stray Dives Special minit obeyed? Dives OBSERVATIONS (relevant construction activities, biological observations, general site issues) Photom Time Location Construction Activity General Observations Photom 0730- Flow plants Diructing 1st Hele Photom Photom 0730- Flow plants Diructing 1st Hele Photom Photom Photom 0730- Flow plants Diructing 1st Hele Photom	Site survey activities?	red for biota prior to	work				¥
Stee clean and the of tuel leakesistray BY es Speed limit obsyed? BY es OBSERVATIONS (relevant construction activity General Observations Photophilin to beyed? Divide 0.73c- 170c Floophilin beyed? Exception 0.73c- 170c Floophilin beyed? Exception 0.73c- 170c Floophilin beyed? Exception 0.73c- 1630 With Just Beyer Intervisit 0.73c- 1630 General Observation Intervisit 0.73c- 1630 General Obset Intervisit	Site free of	special status spec	ies?				
Speed limit obeyed? Styres OBSERVATIONS (relevant construction activity General Observations Time Location Construction Activity General Observations 073c- 1700 How 20 beau DELLing 15° Hole 073c- 1830 Elowaption by Elevantion by Elevantis by Elevantion by Elevantion by Elevantis by Elevantion by Eleva	Site clean a material/tra	and free of fuel leak: ash?	s/stray				
OBSERVATIONS (relevant construction activities, biological observations, general site issues) Time Location Construction Activity General Observations Photo# 0730- 1700 FloopHun West AW-20 been AW-20 been AW-20 been MW-20 bee	Speed limit	t obeyed?					
Time Location Construction Activity General Observations Photode 0730- 1700 Aw 20 berry Mw 20 berry Mw 20 berry 0730- 2730- 28 4 I-40 DBLLing 1ST Hole Image: Activity Image: Activity <td>D OBSEF</td> <td>RVATIONS (relevan</td> <td>nt construction a</td> <td>activities, t</td> <td>viologia</td> <td>cal observations, general site issues)</td> <td>1</td>	D OBSEF	RVATIONS (relevan	nt construction a	activities, t	viologia	cal observations, general site issues)	1
0730- 1700 MW-20 berg DBrilling 1st Hile 0730- Elwophin bry Denting (Messuik) +3 steps provided by Rowlskin. 1630 Plants Mondestry (Messuik) +3 steps provided by Rowlskin. 1640 Plants of Recent Reser Remove Diet Perm 1645 of FAST MESA. Culver of Vacua Hose. 0750- 1645 of FAST MESA. Around new culveres it wisht. 1650 of CWAT a cet WASH. 1045 of CWAT a cet WASH. 1050 of	Time	Location	Construct	ion Activ	vity	General Observations	Photo#
1/100 Flowspilerin but The stand of the stand o	0730-	Floodphin ber	DBUING	jst Ho	le		1
10/0 Late Pictor A Wive Caged Place Pictor 0 North Susteast Real Calver of Place Place Around ef. 1445 OF FAREAN MED, Calver of Vacuum Hose. Place Place Place 0730- WACH Susteast PACK Fill Insterial It Wash. Place Place 1445 OF FAREAN MED, Calver of Vacuum Hose. Place Place Place 0730- WACH Susteast PACK Fill Insterial It Wash. Place Place 1445 OF FAREAN MED, Calver of Vacuum Hose. It CREOS of Bush Teance Instead Place 0730- WASH Susteast Wilder Internal It CREOS of Bush Teance Directory Wash internation Place 1630 OF CWH I It CREOS of Bush Teance Directory Wash internation Place 1630 OF CWH I It WASH, to Allow Bob cart to Donore Directory Wash internation Photo #	0730-	Floopplein b/	Veq pla	.n-tiny (Mes	bute) +3 steps provided by Zus Knydstr	
C TOC - WIGH SUST BAST (LE MOLE DIET FROM IVES OF FACE BAST MEGA, CUlview W/ VACION Hose, 0730- WIGH SUSTERST PALLE EIL MATERIAL 1645 OF EAST MESA. ACCUMULA NEW CULVERES IN WASH. D780 - WASH JUST BAST WIDENING INLET I CREOSETE BUSH REMOVED IN The WASH 1630 OF CWH I. CA WASH, to ALLOW BOBLAR TO REMOVE DIET FROM WESH int. D NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES BIO Measure Heasure		<u>hers</u> 4	F	Ţ		A Wire cages placed around el	
0750- 1645 OF EAST MASH. AROUNDINE CULVERTS IN WASH. D750- WASH JUST EAST WIDENING INLET I CREOSOFE BUSH REMOVED IN The WASH 1630 OF CWARI CAT WASH. O NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES BIO Measure Measure Measure	0700- 1645	OF FAR-EAST ME	A Culvent	DIET PE	in lin	50.	
1043 0 1043 <t< td=""><td>0750</td><td>WASH SUTEA</td><td>ST PACK F</td><td>11 mater</td><td>ial</td><td></td><td></td></t<>	0750	WASH SUTEA	ST PACK F	11 mater	ial		
NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES	D750- 1630	WASH JUST BA	T WIDEN	SH,	LET	I CREOSOFF BUSH REMOVED IN THE WASH TO ALLOW BOBLAT TO REMOVE DIRT FROM W	est int
NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES			Ţ				
	D NON-C	COMPLIANCE ISS	UES/CORREC	TIVE ACT	rions	/Notes	Photo #
	Measu <i>r</i> e #						-
						· · · · · · · · · · · · · · · · · · ·	
	 						
	 			•			
	1						1

BIOLOGIST:	RoB	Gil	man	ана Кала <u>ал</u> а Кала	DATE:	1/26/06	_ START/END TIME: 0630-17	00
WEATHER:	Clear,	<u> </u>	60-70°F	Win	D= 5M	ph		
	,			75		1		

Condition	Y/N	Comments
		· · · · · · · · · · · · · · · · · · ·
Project in compliance? If not, describe below.	⊠yes ⊡No	
Work activities within approved ROW?	⊠Yes □No	
Equipment and material staged within approved areas?	ØlYes □No	
Crew trained on biological measures?	BIYes □No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	ØYes ⊡No	
Site surveyed for biota prior to work activities?		
Site free of special status species?	ElYes	
Site clean and free of fuel leaks/stray material/trash?	⊠Yes ⊡No	
Speed limit obeyed?	[2]Yes □No	

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
0715-	FLOODPLAIN BU MW-20 BONCH	DEILLING		
0715-	WASH JUST BAST OF FAR-EAST NES	CLEORING & CULVERT.	REMOVE DIET from CULVERT UNDER HISTORIC POUTE 66.	
0715-	WASH SUST EAST OF E. MESA	Culver Replacement	Pack Fill AROUND CULVERTS. Veg. ANDIDED.	
0715-	WASH JUST E. of CW41.	Willoning Enlet to Colve	ET. F. Placed rip-rap by hand.	-
			4> Approx. 30 TONS of E.p. PAP (Smil	(bourbees)
			were placed around the culvert	under
			Historic Rostebb. the	PASSES -

NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio- Measure	Photo #
	×

BIOLOGIST: Por Gilman DATE: 1/27/06 START/END TIME:0630 - 1700 WEATHER: T= 55-65°F, WIND = 5MPU, Cleve

Condition	Y/N	Comments
Project in compliance? If not, describe below.	⊠Yes ∐No	
Work activities within approved ROW?	⊠Yes □No	·
Equipment and material staged within approved areas?	K[Yes □No	
Crew trained on biological measures?	⊠Yes ⊡No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	⊠Yes ⊡No	
Site surveyed for biota prior to work activities?	ØYes ⊡No	
Site free of special status species?	Matres ∐No	
Site clean and free of fuel leaks/stray material/trash?	Yes No	
Speed limit obeyed?		

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
0630 -	FLOOD Plain be MW-20 b	EACH, DRILLING		
0700-	WASH JUST E. OF FAR-EAST M	Remove dirt Flom C 154. Voccum Hose,	ocvert with	

NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio- Measure #	Pholo #

SATURUAY

BIOLOGIST:	ROB	Gilm	an	DATE:	1/28/06	STA	RT/END	TIME <u>: (</u>	0630-173	30
WEATHER:	15	50-65°F	, Clear,	WIND	=0-5	mpt				

Condition	Y/N	Comments
, Project in compliance? If not, describe below.		
Work activities within approved ROW?	⊠Yes ⊡No	
Equipment and material staged within approved areas?	⊡No	
Crew trained on biological measures?	⊠Yes 1⊒No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	XYes	
Site surveyed for biota prior to work activities?	⊡No	
Site free of special status species?	XIYes	
Site clean and free of fuel leaks/stray material/trash?	I Yes ⊡No	
Speed limit obeyed?	I ∭Yes ☐No	

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
630 -1730	Floodpland bell MW-20 bench	. Deich Intig		
		0		
		- 14 - A JUL, OL AND A JUL		

Bio-	Photo #
easore	

JUMWAY

BIOLOGIST: ROB GILMAN DATE: 1/29/06 START/END TIME: 0630 -1600 WEATHER: T= 50° - 65° F, Clear, Wind = 0-5 MpH

Condition	Y/N	Comments
Project in compliance? If not, describe below.		
Work activities within approved ROW?	KatYes ⊡No	
Equipment and material staged within approved areas?		
Crew trained on biological measures?	BYes □No	
Vegetation impacts avoided? If not, describe species and quantify impacts below.		
Site surveyed for biota prior to work activities?	D∦¥es ⊡No	
Site free of special status species?	NYes □No	
Site clean and free of fuel leaks/stray material/trash?	[]Yes []No	
Speed limit obeyed?		

OBSERVATIONS (relevant construction activities, biological observations, general site issues)

Time	Location	Construction Activity	General Observations	Photo#
0630-	Flooplain MW-20 8	herow nett. DRILLING		
		-Perci D		

NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES

Bio- Measure	Photo #
L	

BIOLOGIS	T: ROB Gilman		DATI	E: 1/3	30/0	6 STA	RT/END TI	ME: Ola	30-1700
VEATHER	R: T= 60 - 70°F, CL	ear, with	49=	5-10	MHP				
	Condition	VAL					Commonto		
	Condition	T/IN					Comments		
Project in c	ompliance? If not, describe belov	v. ∐No							
Work activities within approved ROW?									
Equipment approved a	and material staged within reas?	⊠Yes ⊡No			61 H				
Crew traine	d on biological measures?								
Vegetation species and	impacts avoided? If not, describe d quantify impacts below.	e Mayes ⊡No							
activities?									
Site free of	special status species?	KiYes ENo							
Site clean and free of fuel leaks/stray material/trash?		DAYes DNO MYes							
Speed limit	obeyed?								
	Location Constru	iction Actin	vity			General	Observatio	ns	Photo#
0630- 1645 0645- 1630 0700- 1700	FLOODDIAIN below MW-20 Local. DE WASH SUST E. WIDENING OF FAREAST MEDICULUELT I WASH JUST E. PACK FILL OF EAST MESA AROUND &	ALLING ENTEANO MALERN MALERN 2 NEW C	E to TRuck A L Juerts			·			
D Non-C	COMPLIANCE ISSUES/CORR	ECTIVE AC	TIONS/	NOTES					
Bio- Measure #									Photo #
				. <u></u> .					

	r. Raik	MAR)			E: 12/12/05 START/END TIME: 0/4K-114K			
WEATHER		SUN MIN	10110	λd,	cool mild temps & 705			
	Condition		Y/N		Comments			
Project in compliance? If not, describe below.			⊡Yes ⊡No	154	day of PE-1 construction, No const. today.			
Work activitie	es within approved	ROW?	I⊉rres □No	in	Vzorench for staging.			
Equipment a approved are	nd material staged eas?	i within	I⊒Yes □No	the	ed a PARE are a requip.			
Crew trained	l on biological mea	isures?	⊡No	\mathcal{C}	e crew trained byth			
Vegetation ir species and	npacts avoided? If quantify impacts b	f not, describe elow.	⊡Yes □No	HAU	nodantel 2 bernerter cacti & 1 marche			
Site surveyed activities?	d for biota prior to	work	[⊿]Ýes □No	Q.	5 Earliey of very taking			
Site free of s	pecial status spec	ies?	⊡Yes ⊡No	$\underline{\omega}$	H withide lireding selson, wareplant day.			
Site clean ar material/trasi	nd free of fuel leaks h?	s/stray		du	impetis consite @ bearing Imp-3.			
Speed limit o	beyed?		I ∐No	po	tel along IN13 access raite-10mph			
Time	Location	Construction a	ion Activ	iologic /ity	General Observations Photo#			
OD	MWZO	Auturenes	is time	4	Trainal core group-attact Rebinson etc.			
0700	floodplain	GP5. Ga	ivey	•	GBER ver, ROWER, Photo dounduits de,			
0201	MWZO	Correl int	<u>ą, i</u>		Cand whet E GH ON WONK author these			
600	adoptain	Salippy			HERE Surveyors or order, Truncel-aurer 1855			
	•							
D Non-Co	OMPLIANCE ISSU	ues/Correct	rive A ct	IONS	/NOTES			
Bio- Measure	st key d	E E-	1 ca	rst,	Providal augueness - May to Photo #			
<u> </u>	re grau	y first	t this	Mi	1 morning Good w Curt Rick, Hul,			
	$n \neq J(k)$	5 57	E-	1	const. Kybert & I GB GIE (Neg			
	wens kun etc, photo curymensite, remar old states."							
	Right of phone of MILIPID MONTH AFTS - MARKE							
	milled Th	Kite 6	5 2	$^{\wedge}$	Di They surveyed stated HE-1			
<u> </u>	Oute, T	tray col	re p	1001	ded waunnenes ting. Cut			
- a	धरेत प	50 1	wet	i	City of Needlestandraw			
≀ N	VIM14.							
	•							

0	Da	ny constru						
BIOLOGIST: XILLION	NID	DA.	TEI 12113 05 STARTIEND TIME 053 - 1	65				
WEATHER:	and the	wing, (1	primita props in the by attend	<u>un</u>				
Condition		Y/N	Comments					
Project in compliance? If not, d	escribe below.	DNo 21	I day of A-Lunk					
Work activities within approved	ROW?		ant started HE-1 const. 11pt.					
Equipment and material staged approved areas?	within		and a state tos gate					
Crew trained on biological mea	sures?	⊡Yes □No(be accupted iesterday					
Vegetation impacts avoided? If species and quantify impacts b	not, describe elow.		a principal scholular for Thurs.					
Site surveyed for biota prior to activities?	work	IØYes ⊡No∕						
Site free of special status spec	es?	DNo W	only antide preading songer					
Site clean and free of fuel leaks material/trash?	s/stray	ElYes DNo +R	sen property contained.					
Speed limit obeyed?		⊡Yes ⊡No ≬∕	tol along IM-3 access rd.					
OBSERVATIONS (relevan	t construction a	activities, biologi	cal observations, general site issues)	Photo#				
	Construct	ion Activity						
0650 - EM3	arrival		orbite.					
CAD HELANY Made	i ma		which cityof Needles, Pan or pale	CPUI BANK				
1300 IM3	inty."		and w PEAE ICH ON BOOL Wish	repairs,				
	•							
Bio- NON-COMPLIANCE ISS	JES/CORREC	TIVE ACTIONS	/NOTES	Photo #				
Measure Photo P M	all n	11-ats-	tom muce ponch. Bus in very					
Ct_ +E-1	KOW, -1	ray Cana	signal after alloup, Plan 1	$\mathbf{P}_{}$				
Gtert Ver	rema	er m	PITHON WED OF THUB, CONVEN	for-				
LEFE & CH	tot NG	118-13	polo repair granua ter ligo	Plan				
to place H	W Equ	T SUMPLY	mornaring of crew anoncove					
v 0830,	_Cutt	K, NG	wester, support to cityof really	<u>B</u>				
9 1000 M	partu	as wor	- Haging Lia in unsveloig					
areas. Ne	a Bile	pall pep	us (mers & aranges. (more	<u> </u>				
[672](t	t on t	we ad	1.111165,					
aland	vilos ta l	Wait	underson de la la la data					
CARANTAL C	at mal 1	usur, co	monor remark campes given, gracele					
			•					

	Λ A	Dai	ily Constru	ction Monitoring Log
	MIRN	NOIN		TE DIALS STARTIEND TIME D-7K-KK
	CEAV 5	UANU. AO	wint, a	of Initid Privis C. 15 14 atternan
	Will	1 by late	maning	w37-40timph 603
	Condition	, .	Y/N I	t' Comments
Project in complia	ince? If not, d	escribe below.	Ino 15t	- dru of arubbing site
Work activities wit	thin approved	ROW?		Walnut Kow & access route
Equipment and m approved areas?	aterial staged	l within	Ino EX	cauntor on floodphin
Crew trained on b	iological mea	sures?		wheel Cityof Needles at CCI
Vegetation impact species and quan	ts avoided? If tify impacts b	not, describe elow.	DIVes	And veg grubing for R-1. Wide Megule
Site surveyed for activities?	biota prior to	work	Urres □No	
Site free of specia	al status speci	ies?	I I No-	
Site clean and fre	e of fuel leaks	s/stray		
Speed limit obeve			Dives Dives	
	ONS (relevan	t construction a	L□No ctivities biologi	cal observations, general site issues)
Time L	ocation	Constructi	ion Activity	General Observations Photo#
NHS I	4113	Æ-1		arrived avert
0730 Par	K Marabi	Cityofh	Jedles	provided tract, survey & morriering
1000 VE	1_	CCT		Cond w And & CLL Saleacross
1100 PE	=1	CCI		Walk in excavetor, Start grubbing veg,
1215 AE	51	CCI		FROMOVEL DAFE-1 pipeline staking
1430 14	a MW34	6MP		10gil Spill of HZD, Nor detect, No new for clamp
		JES/CORRECT		/Notes
Bio- Measure	nd Ne	redles c	nsile to	Photo #
pole	Prov	idal. tr	ngusu	ruly & montoring Support, Rick Bod
Bru	ce 6 (msik.	Stille	access route to AE I pipeline,
Wa	llad	in exc	with.	John S. (CCI) operating beauter
+01	grub	out US	$p_1(C)$	I also performing tilk be repairs
tor	and f	drunge	3. Fai	iver old HE-I, staking to avoid
(0)	fusion	, Tee'	st mu	20 Bench grubbed. Mesquite frees
wert	epion	ed, Salt	Cedar	only free species reinover
10qa	U Spil	1 of Ad	s-acter	TCRG @ HAM MW34, RICK-D. 8 1
-1	sected.	Nonga	ta cu	an up of the Kick pholodo Cumented a
W/W	1 MAN 1	∇U	KIC	ACCULARE FOR TA THOUSELED CARENDAL
RIV	1 Part			

	ARAP SN	nend		DAT	TE: 2	505	STA	RT/ENI) TIME:	OB	4-	1550
WEATHER: C	THE	charte	of i	<i>eun</i>	, windi	1 (37	Final	1), co	1 411	VB (2	104,-	<u>(15</u>)
Cor	ndition	4.	Y/N					Commen	ts	<u> </u>		
Project in compliance	? If not, de	escribe below.	Пes □No,									
Work activities within	approved	ROW?	⊡¶Ÿes ⊡No	Ra	-255/2	UU.	tik	d				
Equipment and mater approved areas?	rial staged	within	⊡Yes □No	11/14	NOB	ach						
Crew trained on biolo	gical mea	sures?	I⊿Yes □No	al	1 Crai	, Hrai	rod					
Vegetation impacts a species and quantify	voided? If impacts be	not, describe elow.	⊡Yes ⊡No	211	Nai	sta	vubi	na	\$ 50	Heed	ΰ` <i></i> ιί	RUU
Site surveyed for biot activities?	a prior to v	vork	⊡Ýes □No	jh 2	eline 7	UUU4	adi	acent	F.sp	20 50	ur ité	Pupel
Site free of special sta	atus speci	es?	∏ares ⊡No∕	Out	side k	redi	nra 4	Pasov	۱			1
Site clean and free of material/trash?	fuel leaks	/stray		54	e Keint	-cla	n					
Speed limit obeyed?			ØYes □No	D0	ted 6	A TO	M3	ACCH	ss nd			x
OBSERVATIONS	6 (relevant	t construction a	ctivities, t	iologic	al observat	ions, ger	neral site	issues)				
Time Loc	ation	Construct	ion Activ	vity		G	Seneral	Observ	ations			Photo#
01044 1111/2	0	年1			DIK							
CF45 Fluck	alan	NI .	_		Stirt	Arw	bina	z Rie)	- <u>, </u>		
0910 MW2	E I	11			Vault	s an	ine,	Stage	1 cn	bench	1	
KIW Floid	bhin	Æ-1			4/24	ackl	102.51	rick	n sa	nd		
1550 mw	20	1E-1	-		C:yl	te u	NK.	Depar	+57	<u>,</u>		
								•				
NON-COMPLIA	NCE ISSU	ES/CORRECT	TIVE ACT	IONS/	NOTES	• {						Dhain #
Measure Cuttin	uc. g	nuthing	Veci	(-11	Maris	$\Delta \omega$	terin	ROW	DAt	linde	KUN,	
Plane	_Cri	511	111	112	mani	iv_	- TIP	2 W	X. 21	asti	Ca	1sikz
Crush	NULUÍ	nich	e ci	VISI	Wia a	よび	Ray, +	1ass	10-	1654	Fin it	inthe
Closed	l, Mit	en laks	.a.A.	QQ1	1 CP	. Me	auk	tirex.	at 1	eif	Will	20 leir
9.9791	Noid	ed. Pai	11no i	DI	YINO 4	terk	- 11	Huh	10 Fr	astiv	vi to	5
21	GVIII	Atr All	ilor	ŦŇ	FA		rat	tabi	1 HAV	nne	CAR	Teni
HA OC	CALLE	CONT		Car	In no	2 1	lintes	+ M	in alat	Del C	h	FI I
		Cuari II		<u>1</u> n	and				Hia		1000	14
	VI -T	<u>comp</u>	UT 7 MAA		UILUU	144		2174	X	ing	la	<u>u</u>
OVE	T	<u>a</u>]	<u>1V 1(/</u>	-cu	щ							
aberr	ed-	Eparlous,	Kan	els q	puay 1, 1	Winn	ungbik	1(Am	<u>152</u>)	cods	, 174	ren
kints; cressole	bush,	anowwe	ed, Sel	tca	dar, hu	sian	Hust	e, pr	ttlebi	sh, pal	d ver	de,

manute.

Condition	Y/N	Comments
Project in compliance? If not, describe below.	ØYes □No	
Nork activities within approved ROW?	I2Yes ⊡No	sumintor in Ray.
Equipment and material staged within	I Yes □No	MUID banch Vantes arrived perton stored
Crew trained on biological measures?	⊡No	Trainand 1 (CI Plininky 182
egetation impacts avoided? If not, describe		2rulling F-1 similing RAW-50ftwide av
ite surveyed for biota prior to work	ØYes □No	KAN SIEY WIELAL
Site free of special status species?	⊡Yes □No	outside breeding series
Site clean and free of fuel leaks/stray naterial/trash?	ØYes ⊡No	
Speed limit obeyed?	In Pres □No	postde là mph
OBSERVATIONS (relevant construction a Time Location Construct	ion Activ	ity General Observations Photo#
BAS u u		Switch out courts, New larger provint
NON-COMPLIANCE ISSUES/CORREC	TIVE,AÇ1	IONS/NOTES
Excauabr staged a	with in r to n flo	in K-1 pipeline ROW, Mersuring with Photos 50 ft. Grubbing (wound K-1 well accomodule circune 5 set yoult. I plain at for of MW20 bench.

START/END TIME: 2645 - 15 BIOLOGISTY DATE Shiattenon WEATHER: Condition Y/N Comments **Ø**Yes Project in compliance? If not, describe below. 00700 **⊡**Yes Work activities within approved ROW? KW □No, IIΛ ØŸes Equipment and material staged within approved areas? **D**Yes Crew trained on biological measures? Hain □Yes Vegetation impacts avoided? If not, describe Newilly 12No species and quantify impacts below. Site surveyed for biota prior to work **P**Yes War activities? DNo-**P**Yes Site free of special status species? CKS DN0 Site clean and free of fuel leaks/stray **Ø**Yes material/trash? **No** Yes M3 Speed limit obeyed? ΠNo OBSERVATIONS (relevant construction activities, biological observations, general site issues) D **Construction Activity** General Observations Photo# Time Location +lixinti Pile F. idn ü MINZO MW20 U WHI SAA -1001-3113 itri UX JA n'le 1415 king on vea f Incilian **NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES** Bic-Photo # rader will net up Measure in Ne <u>°</u>6' đ 100 MU ŧΝ Arturo. 3, Machunner, Spandus, raven, nick dats (1055

Da	ily Construc	ction Monitoring Log							
310LOGIST: 0047-1552									
NEATHER: CALL, SULTING SUCH WITH, CON TIMES (BUS)									
Condition	Y/N	Comments							
Project in compliance? If not, describe below.	DNo ab	Ended safely what a 2720							
Work activities within approved ROW?	Dives □No 2X(cautor # looobr w/in ROW, Access	stakal.						
Equipment and material staged within approved areas?	Ino (i/)	I conoxbox & van Hs steper e mu	20 banch						
Crew trained on biological measures?	INO al	1 crav trained.							
Vegetation impacts avoided? If not, describe species and quantify impacts below.	INO CL	argrub camploked, thuling very of	Bite.						
Site surveyed for blota prior to work activities?	INO. 12	be a during actually							
Site free of special status species? Site clean and free of fuel leaks/stray	⊡No (15 ⊡Yes	+ 1010W to common species							
material/trash?	□No (Dres	HAR INS							
OBSERVATIONS (relevant construction s	I INO	BED O LINW							
Time Location Construct	ion Activity	General Observations	Photo#						
allat									
OGO Floodplain CCI		hauling very off floordain							
TSD WWW20 CCT		sand blasting butts.							
		, , , , , , , , , , , , , , , , , , , 							
			1						
NON-COMPLIANCE ISSUES/CORREC	TIVE ACTIONS	/Notes							
Bio- Measure Use of Hack 101	doir & excu	aught to remain have I have I very from	Photo #						
fladplain. Crew a	150 raki	gliecontouring inea. 1/22, being							
haulat to Park Mod	i burn :	Ster Loader dumping very into							
dumptruck @ MW	3. Srul	e Dib of brush left over Plan to	5						
range tenorrow	marning	. Looking for crane that can							
access flood skin	to set	vants. Crownermilite clan							
Brica Auch Onsite	- all up	oky Circu alans to take most weak							
off due to mike	AIL .								
	aye								
Wildlie - Gaulos	quail, ro	ad running gruckles, raren, rackdo	iles,						
COOB	l .		-						

	Condition	· · ·		Commonts
				comments
roject in co	ompliance? If not, d	lescribe below.	⊡Yes □No	
ork activiti	ies within approved	ROW?	Ino Inc.	
quipment a	and material staged reas?	d within	ØYes ⊡No	MU20 Banh
rew trained	d on biological mea	asures?	ØYes □No	all crew toning
getation i	mpacts avoided? If quantify impacts b	f not, describe elow.	⊡No	clearly rub crunted. Last not use being p
te surveye tivities?	ed for biota prior to	work		onors during contraities
te free of s	special status spec	ies?	Thes No	common survives list below
e clean a aterial/tras	nd free of fuel leak	s/stray	PYes	cleansite
eed limit	obeyed?		Ves No	
OBSER	VATIONS (relevan	t construction a	ctivities, b	iological observations, general site issues)
Time	Lócation	Construct	ion Activ	rity General Observations Photo#
700	I:113	Salety	Wa	abbed & stanin
\$070	Floodblain	ver rein	rabl-	cat primated last very vite from Elosthain
5		aI	-	start duraing or valit around 12-1
00	u	١t		Getting tote to be for monument lock.
330	ú	11		Transport 2 variets to PE-I ROW.
Non-Co	OMPLIANCE ISSI	JES/CORREC		IONS/NOTES
NON-CO	OMPLIANCE ISSI	UES/CORREC	TIVE ACT	ons/Notes a of revelation, Exchanged excavator. Photo #
Non-Co	OMPLIANCE ISSI	ues/Correct	TIVE ACT St pil	ons/Notes a of revelation, Exchanged excavator. Photo # excurs HE-1 monument, Started diagona
NON-CO	OMPLIANCE ISSI	ues/Correct Jing lar aut tot	tive Act	ons/Notes a of repetation. Exchanged excavator. Photo # excurs HE-1 monument. Started digging. to set the vault. Man to set vault
Non-Co sure	OMPLIANCE ISSU DELLA ICHO DELLA LA NEA QUED MONTOW,	und per	tive Act st pill cuy are	ions/Notes a of regelation. Exchanged excavator. Photo# ound HE-1 monument. Started digging. to set the vault. Plan to set vault A PSEE. Ver to unlock monument of
NON-CO sure	OMPLIANCE ISSI PCUL ICINO SELET U NEA QUO MORTOW.	UNA LAF	tive Act st pill cyare -1 -	ions/Notes a of vegetation. Exchanged excavator. Photo# excurd HE-1 monument. Started digging to set the vault. Plan to set vault A PEEE Veg to unlock, monument of into separch. Transported with mults
NON-CO sure	OMPLIANCE ISSI PCUL ICINO > Soft U Nea and MOTTOW. MOTTOW.	JES/CORREC Jiva lar with too with too with too Nego to Nego to tope it	tive Act st pill cyare -1- Chues	IONS/NOTES a of vegetation. Exchanged excavator. Developed to set in the set would to set the vault. Plan to set vault A PEEE Vey to unlock, monument of into trench. transported both vaults -1 well plan to set PE-1 vault
NON-CO sure	OMPLIANCE ISSI PEUL ICMO > Set U NOTOW. WOTOW. UNCLE 100 UNCLE 100	UES/CORREC UNG LAF UNG PE Negd to Hegd to Hegd to Hegd to	TIVE ACT St pill Cuy are -1 - Chues -2 - Chues -2 - Chues -2 - Chues	10NS/NOTES a of repetition. Schanged excavelor. December 1 monument. Started disquege to set the vault. Plan to set vault A PEEE Vey to unlock, monument of into trench. transported both vaults -1 well. Plan to set PE-1 vault brancher country intervient
	OMPLIANCE ISSI PELL ICMO > SET U NOTOW. WINCIR 100 WINCIR 100 UNOTOW.	UES/CORREC UNG LAF CULT tot UNG PE Neod to Tote it Lipkin te Willaur	tive Act st pill cuy are -1- colai Caues - RE per e	IONS/NOTES a of regelation. Schanged excavator. Photo # excurd HE-1 monument. Started digging to set the vault. Plan to set vault A PEEE Very to unlock monument of into trench. transported with vaults -1 well. Plan to set PE-1 vault beaucitor coming intonight:
	OMPLIANCE ISSI DELLA ICIVIO DELLA ICIVIO DELLA ISSI DINOTTOW. DINOTTOW. DINOTTOW. DINOTTOW. DINOTTOW. DINOTTOW.	JES/CORREC Jing lar aut tot und pe Mead to the it dpkin to w[lave	tive Act st pill cuy are cloban Caues RE Fer e	IONS/NOTES a of regelation. Exchanged excavator. Photo# excurd HE-1 monument. Started digging to set the vault. Plan to set vault A PEEE Vey to unlock monument of into trench. transported with vaults -1 well. Plan to set PE-1 vault becavator coming intonight.
	OMPLIANCE ISSI PEUL ICINO > Soft U NOTION. MOTION. MOTION. MOTION. MOTION. MOTION.	UES/CORREC UNA LA UNA PE UNA PE Nead to the it tplain to w[lave	tive Act st pill cyare -1 - Caues RE Fer e	10NS/NOTES a of repetition. Exchanged excavator. Excurd HE-1 monument. Started disquig to set the vault. Plan to set vault A AGER Key to unlock, monument of into trench. transported both vaults -1 well. Plan to set PE-1 vault Ecavator coming intonight.

BIOLOGIST: ANURANNO	DAT	REI 12/22/75 START/END TIME: 7651-	630
WEATHER: party Cloudy , SI	My sla	ht word, coal pups (605)	
Condition	Y/N	Comments	er roon
Project in compliance? If not, describe below.			
Work activities within approved ROW?	Bres □No PL	w staked	
Equipment and material staged within approved areas?	⊡No M	U20 barch staging area	
Crew trained on biological measures?	DNo Q	Il crew trained	
Vegetation impacts avoided? If not, describe species and quantify impacts below.		karts grub completed	
Site surveyed for biota prior to work activities?	Dives	or 6 t during activities	
Site free of special status species?	Pres No.	when species list below	
Site clean and free of fuel leaks/stray material/trash?	BYes	masile	
Speed limit obeyed?		stal abun TUN3 acces mode	
OBSERVATIONS (relevant construction a	ctivities, biologic	cal observations, general site issues)	
Time Location Construct	ion Activity	General Observations	Photo#
7650 IUN3 CH		Sofety into.	
0715 flooddain CCI		Preming to set ibuilt rup pE-11	vell
D940 flood Jan Arcadu	5	Coard when	
1630 MWZO CET		Patt of rosok.	
Non-Compliance Issues/Correct	TIVE ACTIONS	Notes	J
Bio- Measure CCL OXCOUNTER	* setting	while over AF-1 well.	Photo #
(Dunbted setting	to barl	Elling routh back dracoal	
RAID. ALLE DR	red (0	The Widhus, Acok onsite.	
2. Tain CB Conco	Arr	adis on scholula lunch acted	Hes.
Stind stain	harea	arces mute an ost low or	have
No botton working	e ot	ind stronges & allors Amadis	Nous
pole av 16 16	Sites.	fort in site uplis	gree-
THE CATTOR ID	<u></u>	· · · · · · · · · · · · · · · · · · ·	
	- 18388		
1 Sildio : handa to	rash m	IPA make divers a maket an the	
Luivance. Doust le	-and ra	mitachan a chocker coas	<u> </u>

IOLOGIST	r: <u>Anupponeur</u> Claudy i u) JADY (K	Stapp	DAT J (2	TE: 1/2/ XX Emps	6 STAF	RT/END T	іме <u>: 065</u>	0-1	700
	Condition	, iii,	Y/N			C	omments			
Project in cor	mpliance? If not, des	cribe below.	Ves	23						
Work activitie	es within approved R	OW?	VYes							
Equipment a	nd material staged w	ithin	In Yes □No	MI	120 low	h				
Crew trained	on biological measu	res?	ØYes □No	al	CIPINI	nihal to	ninod ?	MOLDO	int	
Vegetation in	npacts avoided? If no	ot, describe			NT AINK	the of cr	XII ANA IN	ninu	IN MAILIN	dursh
Site surveyed	d for biota prior to wo	rk		NO.	sto to to	HILLIGE CH	tutie	yrru	u (u · u	<u>a 0-01</u>
Site free of s	pecial status species	?	P Yes □No	415			A			
Site clean an material/trasl	nd free of fuel leaks/s h?	tray								
Speed limit o	beyed?			ρ	osted					
OBSERV Time	ATIONS (relevant c Location	Construction a	ctivities, I ion Acti	oioloģie vity	al observation	s, general site i General (ssues) Observatio	ns	_	Photo#
730)730 430	MW20 (Uddacunod Uash MWZD				stage w Place is started	p-rap z excail	prepare prepare zhon a	to exco to p laco t Band	aiat Ha N	<u>etrench</u> Uverts
Non-Co	OMPLIANCE ISSUE	S/CORRECT		rions	NOTES					Photo #
	L working eparing to yo ex Ca sh. Placing set culus earea. No no about whice wal	tub ex can hubbrs hubbr	crew ate st onsite in be us mage amage amage	s. t ren bo vela vela vela	tist cite ch for i teand c ton at ice with a that addad (Vorman U & Mill wit stu	to work E-I pit pew ul flogtoro A 4-42 rendel + st uk, Shogny / 20 bench bled our k	ty on dire & rking c culue " culue rculue bruce proce reince f from	MUZO electric mtar i mt. key Mt. bru onsite onsite al soil	alca est nava ust id u t kjak aio 2,	velocit: n Nescol E char f d und

DIAL ACTION OF THE ACTION			-1647
WEATHER: COM SUMMY	mild wind	Mild PHYS (605)	
Condition	Y/N	Comments	
Project in compliance? If not, describe below	ZYes □No		
Work activities within approved ROW?		ignated wishellos	
Equipment and material staged within approved areas?		WZO buch	
Crew trained on biological measures?	⊡No -Ho	and ARB (Time Dunny)	
Vegetation impacts avoided? If not, describe species and quantify impacts below.	ENo 2	crease remard topbe cullert in	estimul
Site surveyed for blota prior to work activities?		orto & during work actuates	•
Site free of special status species? Site clean and free of fuel leaks/stray		the free	
material/trash? Speed limit obeyed?		refer a Inu al	
OBSERVATIONS (relevant construction	activities, biologi	ical observations, general site issues)	Bhotoff
Time Location Constru	ction Activity	General Observations	F11010#
0700 IM3 Safety	MA.	Curt K. back onsite.	
0630 MW20 CCI		Continue excavition on Bonch	
0630 writin CCI	,	Continue work on work	
OTO MUZO AND		DOIT YEANG PIPE C BENCH	
Non-Compliance Issues/Corre		S/NOTES	Photo #
Measure CCI WITH 2 CM	US. ONE	Crew working on unramer we	ISN hand
di uesta y era da	AIR LA NAC	a ch annow so you current, porrouse	
gasting rule by the	Ince so	and a way contracting to available	- Loonch
TAMILITO DOMAN FO	AL-1	analyse All asite teladed	ISING
Nip tied into T	112 + m	in sast tribud PE-1 upli, a	buter
provinter Willow z	Este.	King CCT PROVIDEN ON HON IN	Gin.
Southellest Gas	re D. DAS	te to brack monitor supline	. The
excauting rol	ase Gov	nwash	
	Andres	in the d hale and	
Wildlote: MURID, E	fail aib, a	praeved, Gamers yuan	

	- mithen	Dai	ily Con	stru	ction Monitoring Log	-1/50
BIOLOGIS	E party cl	udy, no	wind		ILO HEMYB (603)	
	Condition		Y/N		Comments	
Project in co	ompliance? If not, d	escribe below.	⊡Yes □No			
Work activiti	ies within approved	ROW?	P_Yes □No			
Equipment a approved an	and material staged reas?	l within	Pres □No	-WIL	WZO Bench	
Crew trained	d on biological mea	sures?	⊡No ⊡No	tra	ined new person for pore waters	tedy
Vegetation i species and	mpacts avoided? If I quantify impacts b	not, describe elow.				
Site surveye activities?	ed for biota prior to	work	⊡No-	k,	rorto & during work activities	
Site free of s	special status spec	ies?		ia	mmon-species tist below	
material/tras	sh?			U	rew picks up matrials.	
	VATIONS (relevan	t construction a	Clivities, I	biologic	cal observations, general site issues)	
Time	Location	Construct	ion Acti	vity	General Observations	Photo#
0630	IM3	CHIPG	٤	_	Salty ma	1.
и	MWZO	ĊĊŢ			trenching	
u		ARB			HOPE fusing	
<u>با</u>	wash	CCI			Placing 4 cullents in westerry wash	
NON-C	OMPLIANCE ISS	JES/CORRECT	TIVE AC	TIONS	/Notes	Photo #
feasure	MrB Smit	h baek	onsit	2-4	oday. Cost contaying to trench	
40	F #E-1	sifelino.		tin	cullens in when, they fusing	
	VIE SOLIN	Q Q IN	NZ 9	NO	DOLLING POIST COLOUD FE-1. JULYO	br
	hide th	n + all		soff	the H cultione in unamodation	h
	NEWG CU	lierts \$		S +	prother Wind Callsing ANST MALLIO	ns
ù	miting	feller ng	by	ARU	B, roads being watered by CCI.	
	1	•		•-•	-	
i			<u></u>			
W	ildlife: 50	antow, Br	cuert	5 6	Unikibinds, Gambel's quail, darkling b	otte
	I	-				

START/END TIME: 0643- 1705 BIOLOGIST: WEATHER: Y/N Condition Comments Yes Project in compliance? If not, describe below. □No Pres . Work activities within approved ROW? □No Tes Equipment and material staged within MUIZO bench □No approved areas? Pres crew trained Crew trained on biological measures? □No Pres Vegetation impacts avoided? If not, describe **No** species and quantify impacts below. Site surveyed for biota prior to work Pres activities? **□**Ng Yes Site free of special status species? ΠNo Site clean and free of fuel leaks/stray Tes eis clain -No material/trash? PYes Speed limit obeyed? No OBSERVATIONS (relevant construction activities, biological observations, general site issues) D Location **Construction Activity** General Observations Photo# Time -11M3 DAD 59 20 YY) ð **NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES** Bio-Photo # Measure Act 66. Common raven, beners ous, cato

3632START/END TIME: 8 BIOLOGIST WEATHER: Ъ Condition Y/N Comments Pyes Project in compliance? If not, describe below. □No_ Yes Work activities within approved ROW? DNo, I Yes □No Equipment and material staged within MWZD bench approved areas? Pres Crew trained on biological measures? Trained now ARB worker **No** YOU LOO **∐Yee** Vegetation impacts avoided? If not, describe eserw wash **⊿**No species and quantify impacts below. Site surveyed for biota prior to work **V**Yes □No activities? **E**Yes Site free of special status species? **No** Site clean and free of fuel leaks/stray PYes: (n)material/trash? DNg. Pres Speed limit obeyed? **No OBSERVATIONS** (relevant construction activities, biological observations, general site issues) 0 Photo# Time Location **Construction Activity** General Observations 0632 rl u DIASON 11 Ľ L **NON-COMPLIANCE ISSUES/CORRECTIVE ACTIONS/NOTES** Bio Photo # Measure സ്റ്റ L going MNOW. om or au

TURUE I UPUUK PROJEGI

BIOLOGIS [.] WEATHER		UD UMM _t ad	s wind,	ATE: 1/10/06 START/END TIME 0645-11	<u>64</u> 3
	Condition		Y/N	Comments	
Project in co	mpliance? If not, de	escribe below.	I⊉Yes ⊡No		
Work activiti	es within approved	ROW?	IZIYes □No		
Equipment a approved an	and material staged eas?	within	IZYes □No		
Crew trained	d on biological mea	sures?	⊡Yes □No		
Vegetation in species and	mpacts avoided? If quantify impacts b	not, describe elow.	⊡Yes ⊡No		
Site surveye activities?	ed for biota prior to v	work			
Site free of s	special status speci	es?			
material/tras	sh?	alstray			
Speed limit	obeyed?	t construction a		nical observations, renaral site issues)	
Time	Location	Construct	ion Activity	General Observations	Photo#
2645	muzo	CCI		-Tienching Infladphin. Set lak	detection
ι	u	ARB		Fusing pipe.	
ıl	wash	ΩĮ		Back Willing Cullions of road ba	se
			- Januara and Andrewson and		
			A		
D NON-C	OMPLIANCE ISSU	HALL PLA	A LU HIF	sinotes Puching, Placed back dotation	Photo #
	nut. S	ould b	2 able	to fire into RE-1. tomorrow.	
Á	RB cont	MUNG.	to fers	e HOAE. at back fuling da	liers
a	t west	4 yus	1, Coo	o wighted on wooming in -	ita

Coord wEANDADA upcoming

chriss on upcoming restration & MUHB I landscape contractor that will plant

WORK. They will take over bid monotoning starting on lb. Jan.

uildlife. Gambels quail, common raven, graettes, rich dove,

HUWR. Met w landscape contra

KOOK &

Coord

w

BIOLOCIS.	T. Daukorna	Dai	PG&E ily Const	truc	POCK PROJEC			dD-	- 1657)
WEATHER		SUMY -	AX WU	λά	wild en	ys (75			_ <u>~</u>
	Condition		Y/N		11	Сотте	nts		
Project in co	mpliance? If not, de	escribe below.	⊡Yes □No						
Work activitie	es within approved	ROW?	ØYes □No						
Equipment a approved are	and material staged eas?	within	Ino □No	M	wzo beneh				
Crew trained	l on biological mea	sures?	⊡Yes □No	al	lean trai	rod			
Vegetation in species and	mpacts avoided? If quantify impacts b	not, describe elow.	I⊉rYes □No	0	bart aunit	music	e		
Site surveye activities?	d for biota prior to	work	PYes No	Ł	thraighaidd	ly ly			
Site free of s	special status speci	es?	DerYes □No	C	omman speci	es list	below		
Site clean ar material/tras	nd free of fuel leaks h?	/stray	I2Yes □No	C	Cansie				
Speed limit o	obeyed?		⊡Yes ⊡No	Δ	estel				
OBSER Time	Location	t construction a Construction	ctivities, bio ion Activit	togic:	al observations, gene Ge	ral site issues) eneral Observ	ations	_	Photo#
DGG	MUZD	CCI			excavale \$	set th	DPE intre	reh	
u	U	fictions) N		placing cz	nduit i	trench		
ıl	ιL .	ARB			fusing	HDPE			
el	mesting	CCI			back fill	ing cu	weits		
		·							
D NON-CO	OMPLIANCE ISSU	ES/CORRECT	IVE ACTIO	DNS/	NOTES		in a tradiciple in our		
HIO- Measure	CT CONT	ming -	654	AN	R-16	ipeline. 4	etting HDR		
<u> </u>	rtrench.	t exca	iating		tired lov	ing ho	les in va	ut	e
PE	=-1 + tar	elance	al co	N	ult, AKB ,	Val la	st tube	into	
00	int. the	sing cc	mplot	, P(an to my	and est	natt. rou	rson	
	onthruing	to lay	CONCL	<u></u>	- apple li	DHE, (14 abo		
	acktur	14 Cert	DELIS	0 1-1-1	T NESPACY	WIST.	Plan to op		
	ago la		Court	1 1	Norrau, cre	ws are	ditorie	1682	
	s oping	gean (jova	<u>x</u>	Compagory	- up ca			
	il Alifa :	12 ALE	no.hO		NOIN Mail		all will A	and a	all to
<u>من</u> کا	aldert (10017 9	pauna	21	juich am	ocis que		we _l (<u>elenuu</u> `

Appendix D Photograph Documentation


Photo Point 1 Pre-Construction: Viewing east from photo point location.



Photo Point 1 Post-Construction: Viewing east from photo point location.



Photo Point 2 Pre-Construction: Viewing north from photo point location.



Photo Point 2 Post-Construction: Viewing north from photo point location.



Photo Point 2 Pre-Construction: Viewing east from photo point location.



Photo Point 2 Post-Construction: Viewing east from photo point location.



Photo Point 2 Pre-Construction: Viewing south from photo point location.



Photo Point 2 Post-Construction: Viewing south from photo point location.



Photo Point 2 Pre-Construction: Viewing west from photo point location.



Photo Point 2 Post-Construction: Viewing west from photo point location.



Photo Point 3 Pre-Construction: Viewing north from photo point location.



Photo Point 3 Post-Construction: Viewing north from photo point location.

CH2MHILL



Photo Point 3 Pre-Construction: Viewing east from photo point location.



Photo Point 3 Post-Construction: Viewing east from photo point location.



Photo Point 3 Pre-Construction: Viewing south from photo point location.



Photo Point 3 Post-Construction: Viewing south from photo point location.



Photo Point 3 Pre-Construction: Viewing west from photo point location.



Photo Point 3 Post-Construction: Viewing west from photo point location.



Photo Point 4 Pre-Construction: Viewing north from photo point location.



Photo Point 4 Post-Construction: Viewing north from photo point location.



Photo Point 4 Pre-Construction: Viewing east from photo point location.



Photo Point 4 Post-Construction: Viewing east from photo point location.



Photo Point 4 Pre-Construction: Viewing south from photo point location.



Photo Point 4 Post-Construction: Viewing south from photo point location.



Photo Point 4 Pre-Construction: Viewing west from photo point location.



Photo Point 4 Post-Construction: Viewing west from photo point location.



Photo Point 5 Pre-Construction: Viewing north from photo point location.



Photo Point 5 Post-Construction: Viewing north from photo point location.



Photo Point 5 Pre-Construction: Viewing east from photo point location.



Photo Point 5 Post-Construction: Viewing east from photo point location.



Photo Point 5 Pre-Construction: Viewing south from photo point location.



Photo Point 5 Post-Construction: Viewing south from photo point location.



Photo Point 5 Pre-Construction: Viewing west from photo point location.



Photo Point 5 Post-Construction: Viewing west from photo point location.