

CALPINE CONSTRUCTION FINANCE COMPANY, L.P.

717 TEXAS AVENUE, SUITE 13.040
HOUSTON, TX 77002

September 11, 2012

Ms. Christina Stora
Compliance Project Manager
California Energy Commission
1516 9th Street
Sacramento, CA 95614

**RE: Grimes Pipeline Project Amendment (97-AFC-02)
August 1-31st Monthly Compliance Report**

Dear Ms. Stora:

As required for the Application for Certification 97-AFC-2, please find the attached Monthly Compliance Report for August 1 – August 31, 2012.

If you have any questions, please contact me at (530)821-5321

Sincerely,

A handwritten signature in black ink, appearing to be 'Betty Chu', with a long horizontal line extending to the right.

Betty Chu
Manager, Environmental Services

Attachment

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Monthly Compliance Report

1. Summary of current project operating status, a revised/updated schedule if there are any significant delays, and an explanation of any significant changes to the schedule;

See Appendix A for current project operating status. No significant changes were made to the schedule.

2. Documents that are required by specific conditions are attached as stated under each condition. See Appendix B.

AQ-SC3	A copy of the AQCMM report is attached	WASTE-1	NA. There were no new haz waste generator EPA id numbers/permit obtained during the reporting period
AQ-SC5	A copy of the AQCMM report is attached.	CUL-15.6	V.15.6-3: A summary report of cultural resources-related monitoring prepared by CRS is attached.
BIO-2	A copy the Biological Resource Monthly Monitoring Report is attached	CUL-15.6	V. 15.6-5: A daily statement is emailed from the CRS to CEC.
BIO-2a	A copy the Biological Resource Monthly Monitoring Report is attached	CUL-15.6	NA. There were no incidents of non-compliance with conditions and/or applicable LORS.
BIO-3	N/A. There were no notices of violation during the reporting period.	PAL-6	Paleontological Resources Protection training was conducted for 67 personnel during the reporting period. Training has been provided to all project managers, construction supervisors, and to all workers.
BIO-4	WEAP training was conducted for personnel during the reporting period. The running total of all persons trained to date is 72.	PAL-7	A summary of the daily logs prepared by the PRS is attached.
BIO-7	A copy the Biological Resource Monthly Monitoring Report is attached	PAL-8	A summary of the daily logs prepared by the PRS is attached.
BIO-8	A copy the Biological Resource Monthly Monitoring Report is attached	GEN-2	See Appendix A for schedule updates.
BIO-8	NA. No giant garter snake sightings were observed.	GEN-3	A copy of the CBO's receipt of payment for all applicable fees is attached.
BIO-11	Compliance with this measure is documented in the Biological Resource	GEN-6	NA. There were no new special inspectors that required CBO approval.

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	Monthly Monitoring Report and daily logs		
BIO-14	Compliance with this measure is documented in the Biological Resource Monthly Monitoring Report and daily logs.	GEN-7	NA. There were no NCR's.
NOISE-1	A copy of statement attesting that noise notification and telephone number has been established and posted at the site.	CIV-3	NA. There were no NCR's.
TRANS-1	NA. There were no oversize and overweight transportation permits received during the reporting period	CIV-4	Civil work was completed this month. However, we have requested a two week extension for submitting the Engineer of Record Statement.
TRANS-2	NA. There were no permits issued this month.	STRUC-3	NA. No revised plans were submitted to the CBO.
TRANS-3	NA. There were no permits or licenses concerning the transport of hazardous substances during the reporting period.	MECH-1	Mechanical work was completed in August. We have requested a two week extension for submitting the Engineer Record Statement.

3. Updated Compliance matrix which shows status of all conditions of certification Appendix C.

4. A list of conditions which have been satisfied during the reporting period.

None

5. A list of any deadlines that were missed accompanied by an explanation and an estimate of when the information will be provided;

No submittal deadlines were missed during this reporting period.

6. A cumulative listing of any changes to compliance activities which have resulted from negotiations between project owner and the CPM.

No changes in compliance activities.

7. A listing of any filings to or permits issued by other governmental agencies during the month.

No filings during this reporting period.

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8. A projection of project compliance activities scheduled during the next two months.

AQ-SC3	The AQCMM report will be updated monthly
AQ-SC5	The AQCMM report will be updated monthly
BIO-2	The Designated Biologist's report will be updated monthly
BIO-4	WEAP training will be completed for new employees as needed
BIO-7	The BRMIMP report will be updated monthly.
CUL-15.6	The cultural resources monitoring report will be updated monthly.
PAL-6	Paleontological Resources Protection training will be completed for new employees as needed
PAL-7	The PRS report will be updated daily.
PAL-8	The PRS report will be updated daily.
GEN-2	A schedule will be updated weekly.

9. A listing of the month's additions to the on-site compliance file.

WEAP training records
Weekly Cultural log
Diesel Engine and Maintenance Inventory
Fugitive Dust Log
Watering Schedule
Street Cleanup and Sweeping Schedule

10. Any requests to dispose of items that are required to be maintained in the project owner's compliance file.

No requests have been made.

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Appendix A

CALPINE CONSTRUCTION FINANCE COMPANY, L.P.

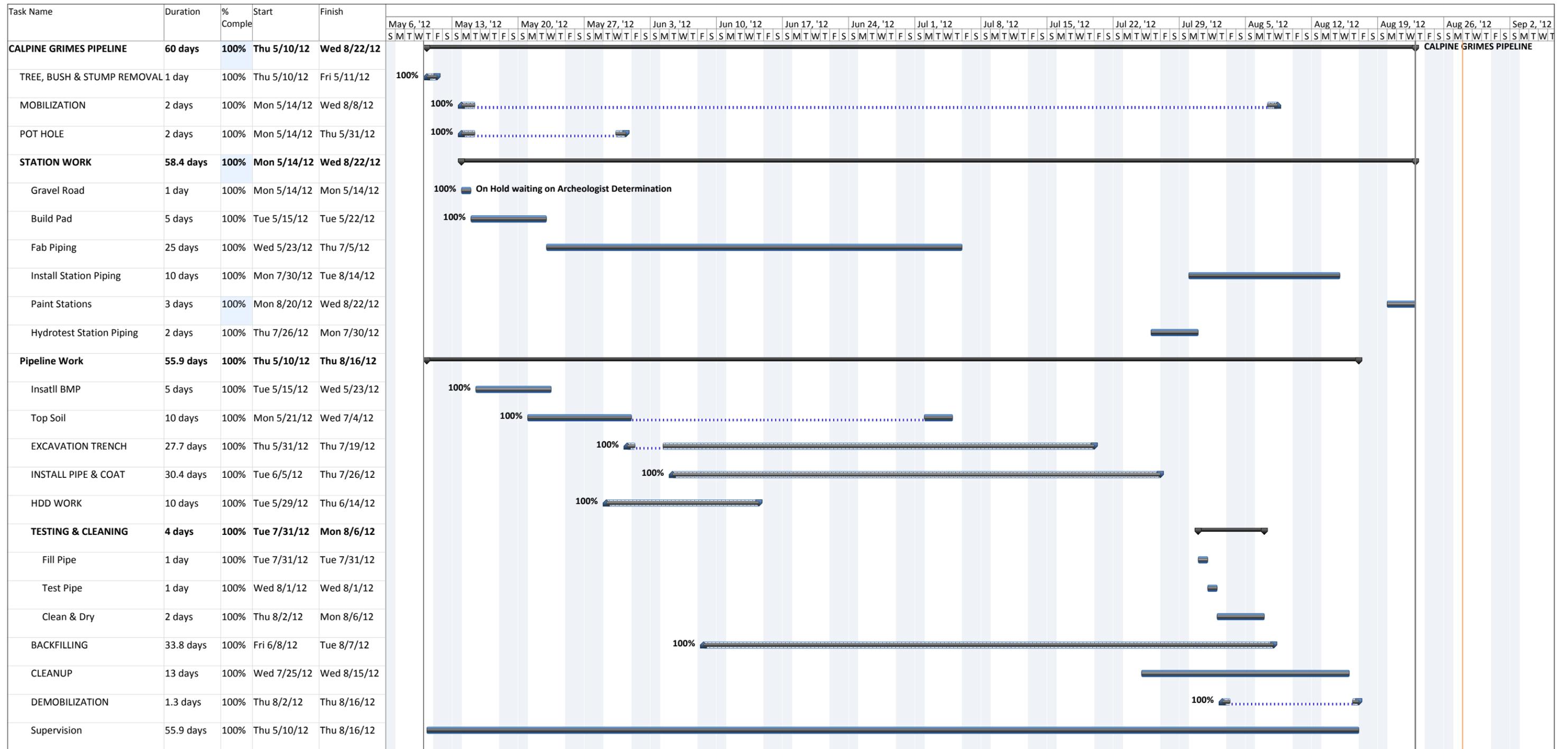
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Appendix B

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Appendix C



Grimes Pipeline Project Watering Schedule for Project Areas

Provide the daily water applications at a single area recording total gallons per day and number of applications per day.

Operator Name: <u>Mark SHEALON</u>							
Area Treated: <u>Lay Yard, GIADNER RD. & GRIMES PAD</u>							
Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<u>8/1/12</u>	0	0	0	1500 Gal.	0	0	0
<u>8/6/12</u>	0	2000 Gal.	0	0	0	0	0
<u>8/13/12</u>	0	1000 Gal.	1500 Gal.	0	1500 Gal.	0	0

Operator Name:							
Area Treated:							
Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Operator Name:							
Area Treated:							
Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Bill Spind 8-16-12

Grimes Pipeline Project Street Cleanup and Sweeping Schedule

Operator Name: MARK SHEALOR
Street: MORONI RD (USED SHOP BROOMS TO SWEEP MUD OFF ROAD!)

Week		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8/1/12	am	○	○	○	○	○	○	○
	pm	○	○	○	○	○	○	○
8/6/12	am 9:00		MORONI					
	pm		○					
8/13/12	am		○					
	pm	○	○	○	○	○	○	○
	am							
	pm							
	am							
	pm							
	am							
	pm							

Operator Name:
Street:

Week		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	am							
	pm							
	am							
	pm							
	am							
	pm							
	am							
	pm							
	am							
	pm							
	am							
	pm							

Operator Name:
Street:

Week		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	am							
	pm							
	am							
	pm							
	am							
	pm							
	am							
	pm							
	am							
	pm							

Bill Spind 8/16/12



Biological Resources Monthly Compliance Report

Date:	September 10, 2012
To:	Betty Chu, Calpine
Cc:	Barbara McBride, Calpine Chris Delaney, Calpine Sue Bushnell-Bergfalk, ICF
From:	William ("Bud") Widdowson, Designated Biologist 
Subject:	Grimes Pipeline Project (97-AFC-2C) – Monthly Compliance Report for August 1 – August 15, 2012

This biological resources compliance report has been prepared to support compliance with the monthly monitoring and reporting requirements outlined in the Biological Resources Mitigation Implementation (BRMIMP) and associated conditions of certification (COC) for the Grimes Pipeline Project (97-AFC-2C). This report covers biological resource monitoring activities that occurred between August 1 and August 15, 2012. August 15, 2012 was the final day of biological monitoring efforts for the project. After August 15, 2012, all construction activities were confined to the Grimes Station pad site and did not involve any surface disturbance activities.

Summary of Monitoring Activities

Copies of the biological resource monitoring daily logs are provided with this report and document compliance with Biological Resources COCs BIO-2 and BIO-2a. These two measures require that the Designated Biologist and Monitoring Biologist submit in the Monthly Compliance Report to the CPM copies of all written reports and summaries that document biological resources compliance activities. In addition to the daily logs, we are also providing copies of the worker environmental awareness program (WEAP) training sign-in sheets to support compliance with COC BIO-4. A total of eight (8) people completed the biological resources WEAP during the August construction period.

During the August construction period, the Designated Biologist and/or the Biological Monitor were on-site during construction activities that occurred between August 1 and August 15, 2012. These construction activities involved land disturbances and were in areas identified as giant garter snake habitat. During this monitoring period, the biologists conducted preconstruction biological surveys in the morning (giant garter snake surveys were conducted daily in suitable habitat areas), provided WEAP to the 8 new construction personnel, conducted general monitoring activities, and

documented compliance with the California Energy Condition's Biological Resource COCs and state and federal permit conditions.

Biological Resource Monitoring Observations

Special-Status Species

No special-status species were observed during the August monitoring period.

Waters of the United States, Including Wetlands

As required in Biological Resource COC BIO-11, all work activities that occur in waters of the United States shall be described and summarized in each Monthly Compliance Report. All construction and post-construction activities in waters of the United States (rice fields and drainages) were monitored by the Designated Biologist and/or Biological Monitor. The work that occurred in waters of the United States included pipeline hydrotesting, removal of sedimentation fencing from areas in agricultural production, and post-construction restoration.

Non-Compliance Events and Resolutions

No biological resource-related non-compliance events were documented during the August 2012 monitoring period.

Grimes Pipeline Project (97-AFC-02)

Biological Resources Monitoring Daily Log

Date: 8/11/12 Monitor
Name: Jackie Kracke

Weather
Conditions: ~100° F, <5% cloud cover, breezy

Hours on Site:
7am - 4:45pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

All heavy equipment on site was checked for GHS and hazardous material leaks; none found. The tie-in hole was checked for GHS and other biological issues; none found.

Any Sensitive Biological Resources Observed during Construction:

Because the landowner was starting to disc the alignment north of X5, I had the crew remove a silt fence stretch going across the alignment that is no longer needed. The area 50' feet above a culvert leading into the X5 canal was not impacted during work and continues to be vegetated.

Summary of Monitoring Efforts:

Today the crew dewatered the tie-in hole throughout the day, and conducted an 8-hour pressurized water test on both stretches of pipe.

When the fab on the construction laydown yard was dewatered pursuant to yesterday's pressurized test, the crew used a silt bag to dewater to the rice fields.

Actions Taken (Half/Resume Construction; Identification; Notifications; Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

I spoke with Joel Butterworth about whether there would be any complications resulting from non-potable vs potable water used in the water test. The non-potable water being used in the pressurized water test has come from a groundwater source in Colusa. He said that it would be okay for dewatering tomorrow. I passed this message on to Chris Delaney. ^{the pipes}

8/1/12

J. Kracke

Bill Laird and Willie Chandler communicated to me that all of the alignment north of XS is considered completed and cleaned up as far as ground work. I can begin removing ESA signs from these areas.

Additional Notes or Drawings:

Grimes Pipeline Project (97-AFC-02)

Biological Resources Monitoring Daily Log

Date: 8/2/12 Monitor
Name: Jackie Kracke

Weather

Conditions: ~100°F, <5% cloud cover, no breeze

Hours on Site:

7am -

Work Location (Project Component and Station): ~~GGSS P~~ All

Daily Preconstruction Survey Effort and Results:

GGSS preconstruction surveys were conducted at the north pad off of Moroni (0+00) where dewatering will occur.

Any Sensitive Biological Resources Observed during Construction:

A greenish snake was observed on an access road leading to the construction laydown yard. I did not get a good enough view to tell the species, although it was likely either a garter snake or a California green racer.

A Barn Owl was observed flying around ~~near~~ west of 0+00 at 7:45am, before dewatering had begun. I did not see any potential cavities where it might have been nesting. The owl flew away toward the west.

Summary of Monitoring Efforts:

Today the crew dewatered the pipeline from the Grimes Pad to Moroni Road using a silt bag to ~~prevent~~ ^{prevent} erosion on the bed of the rice field at the exit point and also to catch any potential sediment from the line. The pipeline was dewatered in approx. 45 minutes. The crew subsequently sent a few more pigs through and then swabbing pigs through.

Actions Taken (Halt/Resume Construction; Identification; Notifications;

Recommendations; Photography; Discussions with Designated Biologist or CEC

Biologist):

The water exiting the pipe was observed to have a slight bluish tint to it, so Joel Butterworth was contacted. Visith from WCB thought that there might be some residual ferrous material from the inside lining of the pipe. The rice field water was cloudy brown prior to work/dewatering and so the effect may have been from having clean water added quickly to the brown water. Mark Shealar couldn't see any significant color in the

(cont) →

Additional Notes or Drawings:Monitoring Efforts:

Today I initiated cleanup of ESA signs from 0+00 down to the X5 bore.

Sensitive Resources:

A black-tailed deer was observed ~~near~~^{near} the alignment access road Meridian Road.

Actions Taken (cont):

water. After speaking with Joel, it was decided that it should be monitored to see if it gets worse. • The dewatering ended shortly after that and the water did not get worse.

Photo: #3855 Silt bag attached to dewatering pipe. They dewatered slowly, and installed a valve to shut off water if silt bag were to blow off. Pictured is after completion of dewatering after P161 blasted through. The P161 was retrieved from the field.

Grimes Pipeline Project (97-AFC-02)

Biological Resources Monitoring Daily Log

Date: 8/6/2012 Monitor

Name: Jackie Kracke

Weather

Conditions: Sunny, <5% cloud cover, no breeze

Hours on Site:

7am - 4pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

Preconstruction surveys were conducted from the construction laydown yard to the X7 bore site, from X7 to X8, and from X8 to X9. One mouse was observed along the alignment, no GIBS were obs. All heavy equipment instr. was checked for GIBS, none found.

Any Sensitive Biological Resources Observed during Construction:

The bulk of the day was spent removing E-SA signs from the alignment. I have been able to go through the alignment one and a half times so far picking up all of the signs, any trash observed, and survey stakes from the crew.

A predated dove? nest was found, abandoned. Photo taken. Halfway between 0+00 and X2 bore.

Summary of Monitoring Efforts:

Today the crew did some clean up work and a backhoe straightening up the right-of-way between the construction laydown yard and the X9 bore. They also welded pipe at the Grimes pad all day. The silt bag was in working order all day and was monitored periodically. Dust mitigation occurred one time during the day.

Actions Taken (Halt/Resume Construction; Identification; Notifications;

Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

I notified Mark Sheator that there are cigarette butts all around the construction laydown yard that will need to be cleaned up before the project ends.

Photo: 3885: Found predated dove? nest

8/6/12

J. Kraebel

Additional Notes or Drawings:

Daily Preconstruction (cont)

The tie-in hole was checked for GCS and other biological issues, none found.

Grimes Pipeline Project (97-AFC-02)

Biological Resources Monitoring Daily Log

Date: 8/7/12 Monitor

Name: Jackie Kracke

Weather

Conditions: Sunny, <5% cloud cover, ~100°F

Hours on Site:

7am - 3:30pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

GIS Preconstruction surveys were conducted at the south Grimes Pad, at the middle pad off of Hageman Road, and at the north pad near Moroni Road (Station 0+00). All heavy equipment onsite was checked for GIS and hazardous material leaks, none found.

Any Sensitive Biological Resources Observed during Construction:

A mouse nest was uncovered among the equipment on the construction laydown yard. A photo was taken. The nest appears to be vacated.

The alignment was photographed at each of the segments, and of any drainages that were worked near. Please see list of photographs below.

Summary of Monitoring Efforts:

Today the crew welded at 3 different pads: the south Grimes pad, the middle pad off of Hageman road, and the north pad at 0+00, off of Moroni Road.

All holes were ramped at the end of the day.

Actions Taken (Halt/Resume Construction; Identification; Notifications;

Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

It was recommended to Mark Shealar that ramps via ^{sloped} lengths of wood be installed in each ~2 ft deep hole of the south grimes pads.

An email was sent to Sue, Bushnell, Bud Widdowson, and Joel Butterworth that work may be ongoing onsite ~~until~~ for another two weeks.

1 | Page Photos: Photographs of a current snapshot of the alignment were taken from North to South, approx 50+ photos, labelled, in all.
#3886 Mouse nest found among equipment.

7/12

J. Koebel

Additional Notes or Drawings:

Preconstruction Survey (cont.):

The tie-in hole was checked for GRS and ~~hazardous~~ other biological issues; none found.

Grimes Pipeline Project (97-AFC-02)
Biological Resources Monitoring Daily Log

Date: 8/8/12 Monitor
Name: Jackie Kracke

Weather
Conditions: Sunny, <5% cloud cover, ~104°F
Hours on Site:
7am-5:00pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

All heavy equipment onsite was checked for GGS and hazardous material leaks; none found. All open pits were checked for GGS and other biological issues; none found.

Any Sensitive Biological Resources Observed during Construction:

No ~~any~~ GGS or nests were identified today.

At the end of the day, all holes at all three pad sites were ~~to~~ pumped.

Summary of Monitoring Efforts:

Today the crew continued to dig holes at the south Grimes pad, the middle pad off of Hageman Road, and the north pad off of Moroni Road. They installed rebar in the holes for concreting tomorrow, and continued fab work on the north and middle pads. Dewatering of the tie-in hole was monitored as was work near GGS habitat periodically at all three pads.

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

None today.

Grimes Pipeline Project (97-AFC-02)

Biological Resources Monitoring Daily Log

Date: 8/9/12 Monitor

Name: Jackie Krause

Weather

Conditions: ~105° F, 55% cloud cover, slight breeze

Hours on Site:

8:15 am - 5:00 pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

All heavy equipment onsite was checked for AGS and hazardous material leaks; none found.

Any Sensitive Biological Resources Observed during Construction:

The trench plate separating the ag ditch adjacent to Girder Road was removed today, and pits taken. Water was already pooled below the trench plate although above the trench plate was dry. Thus, no silty water contamination. ~~the~~ the dewatering of previous weeks dewatering operation came from above ag ditch used for

Summary of Monitoring Efforts:

The concrete crew started at 6 am this morning to start prepping to pour concrete by 12 noon. The AGS crew fill in each of the tie-in hole today.

The ~~area~~ area was a bit sloppy with trash around their work areas but cleaned it up by the end of the day.

Actions Taken (Halt/Resume Construction; Identification; Notifications;

Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

I coordinated with Sue Buswell, Bud Wildman and Richard Serrano as well as Mark Shearer from ARB to have Richard onsite to do Paleo/Cultural monitoring on Monday while the swale is dug.

Photo: 3945: Ag ditch after trench plate removal. Water from dewatering has percolated out and the ditch above has no standing water.

3944: Snapshot just after trench plate removal.

11:00 = 3945: Lower (eastern) side of culvert. Standing water not flowing to anywhere.

3946: Concrete pouring at Grimes Pad.

Grimes Pipeline Project (97-AFC-02)

Biological Resources Monitoring Daily Log

Date: 8/13/12 Monitor
Name: Jackie Kracke

Weather
Conditions: Sunny, ~5% cloud cover, ~105°F
Hours on Site:
7am - 1:45pm

Work Location (Project Component and Station): A4

Daily Preconstruction Survey Effort and Results:

GGS Preconstruction Surveys were conducted for the south Grimes pad, the north Pad off of Moroni Rd (near 0+00), and the middle Venoso Pad adjacent to Hageman Road; no GGS were observed. All heavy eqmt onsite was checked for GGS, none found.

Any Sensitive Biological Resources Observed during Construction:

None today.

Summary of Monitoring Efforts:

Today the crew cleaned up each of the 3 pads which were concreted (foundations for fab piping). Asta arrived onsite to gravel the Grimes Pad.

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

Dust abatement was requested to Mark Shealar during gravel deliveries.

Photos: 3961³⁹⁶² - Revegetation status of ag ditch east of 0+00
3964 - Revegetation status of south side of add-on bore, mulched

Grimes Pipeline Project (97-AFC-02)
Biological Resources Monitoring Daily Log

Date: 8/14/12 Monitor
Name: Jackie Krackel

Weather

Conditions: Hazy due to fire in the area, ~60% cloud cover, ~95°F

Hours on Site:

7am - 2:45pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

All heavy eqmt waste was checked for GGS and hazardous material. None found. The new ditch mentioned below was checked for GGS and other bio issues, none found. The ditch's slope was low enough to allow for easy escape by GGS and other animals.

Any Sensitive Biological Resources Observed during Construction:

After leaving yesterday at 2, it was expected that Asta would continue work on the pad only for the rest of the day, which did not need to be monitored. However, Asta dug out a small, dry culvert on the east side of the pad, which necessitated both Richard Serrano and I to be present. After talking to Asta, it was a mistake. Richard checked the dirt for paleo/cultural resources and I checked it for GGS and other biological issues. No GGS/bio issues obs.

Summary of Monitoring Efforts:

Today the crew continued clean-up, removing eqmt from the yards. Asta compacted gravel on pad throughout the day. The crew removed two stretches of silt fence (the last two remaining on site) from above an agricultural ditch near O+00 and another south of the construction laydown yard above an agricultural ditch. Both areas have restabilized enough to no

Actions Taken (Halt/Resume Construction; Identification; Notifications;

Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

My last day onsite is expected to be either tomorrow or this day.

Photos 3965, 3966, 3967 - Dry out culvert during new culvert installation.

3968 - Asta operations at Grimes Pad

3969, 3970 - Ag Ditch east of O+00 after silt fence removal

8/14/12

J Kracke

Additional Notes or Drawings:

Monitoring Efforts

longer require silt fencing.

Actions Taken (cont).

Photos: 3973 Ag ditch south side of add-on bore after silt fence removal.

Grimes Pipeline Project (97-AFC-02)
Biological Resources Monitoring Daily Log

Date: 8/15/12 Monitor

Name: Jackie Kracke

Weather

Conditions: Cloudy morning, sunny afternoon, ~75°F - ~95°F, breezy

Hours on Site:

7am - 5:45pm

Work Location (Project Component and Station): All

Daily Preconstruction Survey Effort and Results:

All open pits onsite were checked for GIGS or other biological issues; none found. All heavy equipment onsite was checked for GIGS and hazardous material leaks; none found.

Any Sensitive Biological Resources Observed during Construction:

The fencing around the VELB shrub was removed today. Inspection yielded no observed impacts on the shrub from U construction.

Summary of Monitoring Efforts:

Today the ARB performed final cleanup. They hauled offsite all remaining equipment, and the crew scoured the construction laydown yard for any trash or micro trash. ASTA dug a stable around the Grimes pad, installed straw waddles, and finished grading the pads. They also installed rip-rap (medium-sized stones) on the banks above each culvert.

Actions Taken (Halt/Resume Construction; Identification; Notifications;

Recommendations; Photography; Discussions with Designated Biologist or CEC Biologist):

Bob Widdowson was notified that the crew finished all work today.

Photos: 3980 Rocks to be placed as rip-rap on a ditch banks.

3981 New ditch dug today ~~and~~ ^{connecting} installed culverts

3988, 3989, 3992, 3993 Installed straw waddles at Grimes pad, stakes are every ~4 ft.

8/15/12

J. Kracke

Additional Notes or Drawings:

Monitoring Efforts:

to prevent erosion. All of this work was monitored through out the day for SWPPP compliance, and for GGS.

Actions Taken (cont):

3997, 3998- Installed rip-rap on ag ditch banks.



Cultural and Paleontological Resources Monthly Compliance Report

Date:	September 12, 2012
To:	Betty Chu, Calpine
Cc:	Barbara McBride, Calpine Chris Delaney, Calpine Sue Bushnell-Bergfalk, Project Manager, ICF James Allen, Paleontological Resource Specialist, ICF
From:	Alisa Reynolds, Cultural Resource Specialist (Alternate)
Subject:	Grimes Pipeline Project (97-AFC-2C) – Cultural and Paleontological Resources Monthly Compliance Report for August 1-31, 2012

This cultural and paleontological resources compliance report has been prepared to support compliance with the monthly monitoring and reporting requirements outlined in the Cultural Resources Monitoring and Mitigation Plan (CRMMP) and Paleontological Resources Monitoring and Mitigation Plan (PRMMP) and associated conditions of certification (COC) for the Grimes Pipeline Project (97-AFC-2C). This report covers cultural resource monitoring activities that occurred between August 1 and August 31, 2012.

Summary of Monitoring Activities

Copies of the cultural and paleontological monitoring daily logs are provided with this report and document compliance with Cultural Resources COCs CUL-7 and CUL-15.6 and Paleontological Resource COCs PAL-7 and PAL-8. These measures require that the CRS and PRS submit in the Monthly Compliance Report to the CPM copies of all written reports and summaries that document monitoring compliance activities. In addition to the daily logs, we are also providing copies of the worker environmental awareness program (WEAP) training sign-in sheets to support compliance with COCs CUL-6 and PAL-6.

The approved PRM/CRM (Richard Serrano) was on-site for three days (August 13, 14, and 15) during the construction period between August 1 and August 31 and provided the WEAP to new construction personnel, conducted general monitoring activities, and documented compliance with the CEC Cultural and Paleontological COCs and monitoring plan requirements. No other work was needed because all excavation had been completed and only backfilling was continuing on an occasional basis. Cultural resources monitoring activities consisted of observing potholing, ground-

clearing, berm construction, and trenching. Depths of these excavations ranged from 1 to 8 feet in mostly disturbed soils.

Cultural Resource Discoveries and Actions

On August 15, three small ceramic fragments were observed in the area of CUL-3 (see DPR 523 forms for exact locations, provided to CPN previously under separate cover). An isolated faunal bone was also recovered on August 14, but this was not near an existing CUL and no further recording was necessary.

Grimes-CUL-1

No additional finds were reported at CUL-1

Grimes-CUL-2

No additional finds were reported at CUL-2

Grimes-CUL-3

Three small white ceramic shards were recovered. Non-diagnostic, not considered significant.

Grimes-CUL-4

No additional finds were reported at CUL-4

Paleontological Resource Discoveries and Actions

No paleontological resources were observed during the August 1-31, 2012 monitoring period.

Non-Compliance Events and Resolutions

No cultural or paleontological resources-related non-compliance events were documented during the August 1-31, 2012 monitoring period.

State of California — The Resources Agency
 DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
 HRI #
 Trinomial
 NRHP Status Code

Other Listings
 Review Code

Reviewer

Date

Page 1 of 4

*Resource Name or #: Grimes-CUL-3

P1. Other Identifier:

*P2. Location: Not for Publication Unrestricted

*a. County: Sutter

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad: Tisdale Weir Date: 1973 T 14 N ; R 1 E; NE¼ of SE¼ of Sec 8 M.D.B.M.

c. Address: City: Zip:

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate): From the city of Colusa, drive 10 miles (mi) east on State Route 20/45 through the town of Meridian to Drexler Road (Rd). Turn south (right) on Drexler Rd for 2 mi and turn west (right) onto Moroni Rd. Proceed along Moroni Rd 0.25 mi and turn south (left) on S. Drexler Rd. Drive about 2.1 mi to Girdner Rd. and turn east (left). Proceed for 0.25 mi, exit the vehicle and cross the drainage ditch immediately north of the road.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries) This site is a sparse scatter of late-nineteenth to early twentieth century agricultural and domestic refuse that has been partially churned into the soil by repetitive agricultural discing. Test excavations (five shovel test pits and a surface scrape) were conducted in order to assess the depth and extent of the archaeological deposit. Test excavations revealed the subsurface artifact density to be 16.8 artifacts per cubic meter. The deposit is confined to the upper 20 centimeters of the field, within the plow zone. Artifacts recovered include 28 on the surface and 10 from test excavations.

Surface artifacts comprise one white insulator fragment, seven white improved earthenware fragments (one base, two lip, one concave, three body sherds), one brown insulator fragment, two green glass bottle fragments (one lip, one body), an iron plow tine, one clear glass fragment, one clear glass bottle base fragment, a battery core, one aqua glass bottle fragment, two aqua glass fragments, two amber glass fragments (one base, one body), a split/broken metal ring, a wire nail fragment, one square nail, one carriage bolt, one milk glass fragment, a metal hanging bracket, one pottery fragment (interior brown/exterior green), one gray stoneware fragment, and one faunal long bone fragment.

Artifacts recovered from the test excavations consist of one green bottle lip fragment, one milk glass lip fragment, one clear glass bottle lip fragments, one whole wire nail and one wire nail fragment, square nail head, clear glass fragment, rodent bone (proximal femur), rodent long bone, two white ceramic fragments, and a bolt with nut.

*P3b. Resource Attributes: (List attributes and codes) AH4. Trash scatter

*P4. Resources Present: Building Structure Object Site District Element of District Other (Isolates, etc.)



P5b. Description of Photo: (View, date, accession #) Overview of site to northwest, 05/15/2012, P1050297, ICF 00776.10.

*P6. Date Constructed/Age and Sources: Historic

Prehistoric Both
 Unknown, but includes interval of 1860–present.

*P7. Owner and Address:

Herrod
 *P8. Recorded by: (Name, affiliation, and address)

R. Serrano, G. Roark, J. Harden
 ICF International
 630 K Street, Suite 400
 Sacramento, CA 95814

*P9. Date Recorded: 05/15/2012

*P10. Survey Type: (Describe) Construction monitoring pursuant to California Energy Commission conditions of certification (see ICF International 2012a)

*P11. Report Citation: (Cite survey report and other sources, or enter "none.") See Continuation Sheet

*Attachments: NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record
 Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record
 Artifact Record Photograph Record Other (List):

*A1. Dimensions: a. Length: 100 ft. (N-S) × b. Width: 100 ft. (E-W)

Method of Measurement: Paced Taped Visual estimate Other: Trimble GeoExplorer XM

Method of Determination (Check any that apply.): Artifacts Features Soil Vegetation Topography
 Cut bank Animal burrow Excavation Property boundary Other (Explain):

Reliability of Determination: High Medium Low Explain: Excavation clearly indicates that the site is confined to the plow zone. Artifact yields drop off before STP 3 on the north and the site is constrained on the east and west by drainage ditches.

Limitations (Check any that apply): Restricted access Paved/built over Site limits incompletely defined
 Disturbances Vegetation Other (Explain):

A2. Depth: 20 cm None Unknown Method of Determination: Test excavation

*A3. Human Remains: Present Absent Possible Unknown (Explain):

Human remains are unlikely to occur in the context of casual artifact discard.

*A4. Features (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):
None.

*A5. Cultural Constituents (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):

See Primary Record.

*A6. Were Specimens Collected? No Yes (If yes, attach Artifact Record or catalog and identify where specimens are curated.)

*A7. Site Condition: Good Fair Poor (Describe disturbances.): Repeated tillage since the nineteenth century has fragmented artifacts and obliterated any evidence of former features (should any have been present). Ditch-cutting and ground-clearing in May 2012 for a pipeline project resulted in additional damage. The site will be destroyed by construction.

*A8. Nearest Water (Type, distance, and direction.): Sacramento River, 0.6 mi to the south.

*A9. Elevation: 40 ft above mean sea level (interpolated from Tisdale Weir 7.5-minute topographic quadrangle).

A10. Environmental Setting (Describe culturally relevant variables such as vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.): The site is situated on the Sacramento River floodplain with basin deposits to the north and east. The site occupies a former lavender field ringed on all sides by drainage ditches and windbreaks of eucalyptus and cottonwood trees.

A11. Historical Information: None.

*A12. Age: Prehistoric Protohistoric 1542-1769 1769-1848 1848-1880 1880-1914 1914-1945
 Post 1945 Undetermined Describe position in regional prehistoric chronology or factual historic dates if known:

As discussed in ICF International (2012b), the artifacts recovered span the interval of 1860 to 1930.

A13. Interpretations (Discuss data potential, function[s], ethnic affiliation, and other interpretations):

The site is the result of casual discard of household goods and broken agricultural tools lost during use. The artifacts were subsequently incorporated into the plow zone by repeated cultivation and are alternately exhumed and reburied by the same processes.

A14. Remarks:

A15. References (Documents, informants, maps, and other references): See Continuation Sheet.

A16. Photographs (List subjects, direction of view, and accession numbers or attach a Photograph Record.):

Original Media/Negatives Kept at: ICF International, 630 K Street, Suite 400, Sacramento, CA 95814

*A17. Form Prepared by: Gabriel Roark

Date: 05/23/2012

Affiliation and Address: ICF International, 630 K Street, Suite 400, Sacramento, CA 95814

CONTINUATION SHEET

Primary #

HRI#

Trinomial

*Recorded by: R. Serrano, G. Roark, J. Harden

*Date: 05/15/2012 Continuation Update

References Cited

ICF International

2012a *Sutter Energy Center (97-AFC-02): Cultural Resources Mitigation and Monitoring Plan for the Grimes Pipeline Project Sutter County, California*. April. Sacramento, California. ICF 00776.10. Prepared for Calpine Construction Finance Company, and CPN Pipeline Company.

2012b Memorandum Regarding Evaluation of Cultural Resource Discovery Grimes-CUL-3, Grimes Pipeline, Sutter Energy Center (97-AFC-02). May 23. Sacramento, California. ICF 00776.10. Submitted to California Energy Commission, Sacramento, California.

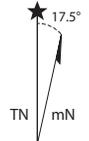
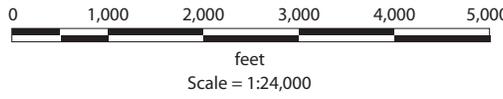
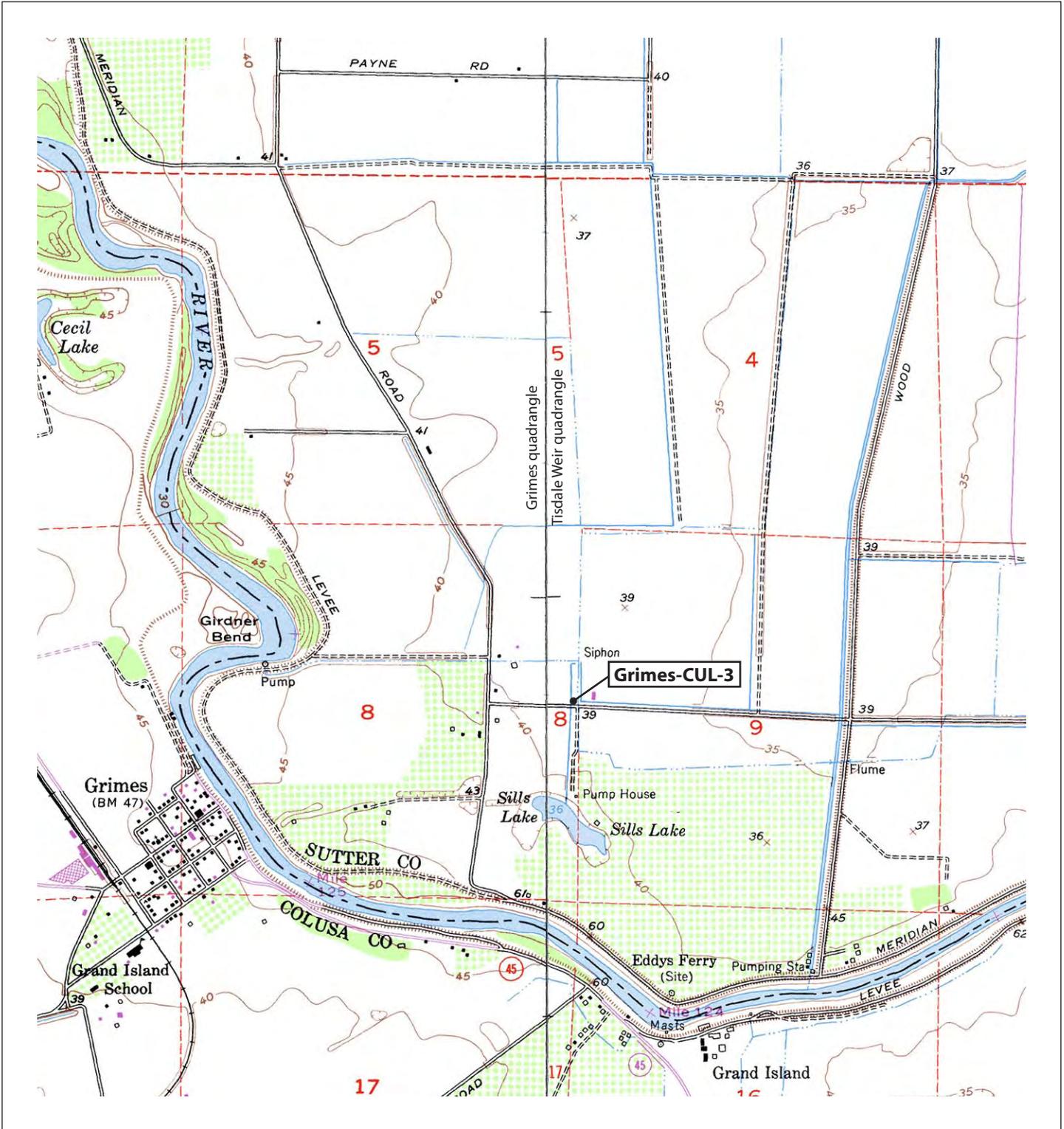
LOCATION MAP

Page 4 of 4 *Resource Name or #: Grimes-CUL-3

*Map Name: Tisdale Weir, California

*Scale: 1:24,000 (1"=2,000')

*Date of Map: 1973



Base map: USGS 7.5'-series Grimes, California, quadrangle (1954, PR 1973)
and Tisdale Weir, California, quadrangle (1952, PR 1973)

Grimes Pipeline Project (97-AFC-02)
Cultural and Paleontological Resources Monitoring Daily Log

Date: 8/13/12 Monitor Name: Richard Serrano

Weather Conditions: Clear, Sunny, Hot

Hours on Site Not Worked and Reason: _____

Work Location (Project Component): Grimes Station

Work Type (Machine): CAT 310.5D back hoe

Depth of Excavation: No excavation today.

Observed Native Soils (Stratigraphy): N/A

Disturbed/Redeposited Soils: Disturbed / Fill

Features: No features observed.

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, stratigraphic context.):

No prehistoric, historic or paleo resources impacted today.

Assessment of Significance of Any Finds? (As recommended by the CRS or PRM):

N/A

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

Rock spread on Grimes Station Pad.
there was no ground work today.

**Grimes Pipeline Project (97-AFC-02)
Cultural and Paleontological Resources Monitoring Daily Log**

Date: 8/14/12 Monitor Name: Richard Jermann

Weather Conditions: Smoky Skys, Sun. very warm.

Hours on Site Not Worked and Reason: _____

Work Location (Project Component): Grimes Station Pad.

Work Type (Machine): _____

Depth of Excavation: -6 ft.

Observed Native Soils (Stratigraphy): Dark brown clay

Disturbed/Redeposited Soils: Some areas presumably disturbed.

Features: There were no features observed today.

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, stratigraphic context.):

One section of a broken metal file was found. Well
washed and non-diagnostic. Not collected.
One tinned limb bone. Non modified. (deer)

Assessment of Significance of Any Finds? (As recommended by the CRS or PRM):

Non significant. Bone was not culturally modified.

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

Monitor excavations for drainage.

**Grimes Pipeline Project (97-AFC-02)
Cultural and Paleontological Resources Monitoring Daily Log**

Date: 8/15/12 Monitor Name: Richard Serrano

Weather Conditions: Over cast, cool

Hours on Site Not Worked and Reason: _____

Work Location (Project Component): Grimes Station Pad

Work Type (Machine): CAT 310B back hoe

Depth of Excavation: -4 ft.

Observed Native Soils (Stratigraphy): Drk. brn. organic rich clay

Disturbed/Redeposited Soils: first foot ag. disturbed

Features: No features observed today.

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, stratigraphic context.):

Pottery and china shards same as previous discoveries,
Non diagnostic. Dug up during trenching for drainage ditch.

Assessment of Significance of Any Finds? (As recommended by the CRS or PRM):

Discoveries are not significant

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

Monitor trenching for drainage and ground work for
Suabaya.
Length of drainage trench was approx 25 ft. Max
depth at east end is -4 ft.



August 31, 2012

Christine Stora
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-29
Sacramento, CA 95814-5512
916.654.4745
CStora@energy.state.ca.us

**Re: CEC Conditions of Certification, GEN-3
Calpine Grimes Power Project**

Dear Ms. Stora:

This letter is to notify you that the applicant has complied with the CEC Conditions of Certification, GEN-3 for the month of July. As of this date the applicant is current on their payments to WC³.

Should you have any questions please feel free to contact us.

Sincerely,

West Coast Code Consultants, Inc. (WC³)

Giyon A. Senaratne, S.E., P.E., LEED, CASp
Principal / CEO
Structural Engineer
ICBO/ICC/IRC Plans Examiner

CC: Chris.Delaney@calpine.com

Grimes Pipeline Project Compliance Matrix

	A	B	C	D	E	F (97-AFC-02)	G	H	I	J	K	L	M	N	O
		No.	SORT CODE	PERIODIC REPORTS	Description of Project Owner Responsibilities (Conditions of Certification)	Verification/Action/Submittal Required by Project Owner	Timeframe	Days	Date sent to CEC/CBO	Date of approval of action or submittal	Conditions Applicable to Grimes Pipeline Project?	Comments	Status	CEC Tracking Number	CEC Status
1															
2	AIR QUALITY														
50	AQ-SC	3	C	MCR	Construction Fugitive Dust Control: The AQCMM shall submit documentation to the CPM in each monthly compliance report (MCR) that demonstrates compliance with the following mitigation measures for purposes of preventing all fugitive dust plumes from leaving the project site and linear facilities routes. Any deviation from the following mitigation measures shall require prior CPM notification and approval.	The project owner shall include in the MCR: (1) a summary of all actions taken to maintain compliance with this condition; (2) copies of any complaints filed with the air district in relation to project construction; and (3) any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion, as approved by the CPM.	During construction	Monthly	6/13/11 electronically and 6/15 by mail (Plan included in AQCMP)		Yes		Ongoing	2012-0338	Under review
51	AQ-SC	3	C	MCR	A. All unpaved roads and disturbed areas used for this project and linear construction sites shall be watered as frequently as necessary to comply with dust mitigation objectives of AQ-SC4. The frequency of watering may be either reduced or eliminated during periods of precipitation. B. No vehicle traveling on unpaved roads shall exceed a speed of 15 miles per hour. C. Any construction site entrances shall be posted with visible speed limit signs. D. All construction equipment vehicle tires shall be inspected and washed as necessary to be free of dirt prior to entering paved roadways. E. Gravel ramps of at least 20 feet in length must be provided at the tire washing/cleaning station. F. All unpaved exits from the construction site shall be graveled or treated to prevent track-out to public roadways. G. All construction vehicles shall enter the construction site through the treated entrance roadways unless an alternative route has been submitted to and approved by the CPM. H. Construction areas adjacent to any paved roadway shall be provided with sandbags or other measures as specified in the Storm Water Pollution Prevention Plan (SWPPP) to prevent run-off to roadways.						Yes		Ongoing		

Grimes Pipeline Project Compliance Matrix

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1	AQ-SC	3	C	MCR	I. All paved roads used for construction shall be swept as needed on days when construction activity occurs to prevent the accumulation of dirt and debris. J. All public roadways exiting the construction site shall be swept as needed on days when construction activity occurs or on any other day when dirt or run-off from the construction site is visible on the public roadways. K. All soil storage piles and disturbed areas that remain inactive for longer than 10 days shall be covered or treated with appropriate dust suppressant compounds. L. All vehicles that are used to transport solid bulk material on public roadways and that have the potential to cause visible emissions shall be provided with a cover, or the materials shall be sufficiently wetted and loaded onto the trucks to provide at least two feet of freeboard. M. Wind erosion control techniques (such as windbreaks, water, chemical dust suppressants, and/or vegetation) shall be used on all construction areas that may be disturbed. Any windbreaks installed to comply with this condition shall remain in place until the soil is stabilized or permanently covered with vegetation.						Yes		Ongoing		
52	AQ-SC	4	C		Dust Plume Response Requirement: The AQCMM or an AQCMM delegate shall monitor all construction activities for visible dust plumes. Observations of visible dust plumes with the potential to be transported off the project site, 200 feet beyond the centerline of the construction of linear facilities, or within 100 feet upwind of any regularly occupied structures not owned by the project owner indicate that existing mitigation measures are not providing effective mitigation. The AQCMM or delegate shall then implement the following procedures for additional mitigation measures in the event that such visible dust plumes are observed.	The ACQMP shall include a section detailing how additional mitigation measures will be accomplished within the specified time limits.	During construction	Daily	6/13/11 electronically and 6/15 by mail (Plan included in AQCMP)		Yes		Ongoing		
53	AQ-SC	4	C		Step 1: Within 15 minutes of making such a determination, the AQCMM or delegate shall direct more intensive application of the existing mitigation methods.		During construction	15 minutes			Yes		Ongoing		
54															

Grimes Pipeline Project Compliance Matrix

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1															
55	AQ-SC	4	C		Step 2: If Step 1 specified above fails to result in adequate mitigation within 30 minutes of the original determination, the AQCMM or delegate shall direct implementation of additional methods of dust suppression.		During construction	30 minutes			Yes		Ongoing		
56	AQ-SC	4	C		Step 3: If Step 2 specified above fails to result in effective mitigation within one hour of the original determination, the AQCMM or delegate shall direct a temporary shutdown of the activity causing the emissions. The activity shall not restart until the AQCMM or delegate is satisfied that appropriate additional mitigation or other site conditions have changed so that visual dust plumes will not result upon restarting the shutdown source. The project owner may appeal to the CPM any directive from the AQCMM or delegate to shut down an activity, provided that the shutdown shall go into effect within one hour of the original determination, unless overruled by the CPM before that time.		During construction	within 1 hour of determination			Yes		Ongoing		
57	AQ-SC	5	C	MCR	Diesel-Fueled Engine Control: The AQCMM shall submit to the CPM, in the MCR, a construction mitigation report that demonstrates compliance with the following mitigation measures for purposes of controlling diesel construction-related emissions. Any deviation from the following mitigation measures shall require prior CPM notification and approval.	The project owner shall include in the MCR: (1) a summary of all actions taken to maintain compliance with this condition; (2) a list of all heavy equipment used on site during that month, including the owner of that equipment and a letter from each owner indicating that the equipment has been properly maintained; and (3) any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion, as approved by the CPM.	During construction	Monthly	6/13/11 electronically and 6/15 by mail (Plan included in AQCMP)		Yes		Ongoing		
58	AQ-SC	5	C		A. All diesel-fueled engines used in the construction of the facility shall have clearly visible tags, issued by the on-site AQCMM, showing that the engine meets the conditions set forth herein.						Yes		Ongoing		

Grimes Pipeline Project Compliance Matrix

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1															
59	AQ-SC	5	C		B. All construction diesel engines with a rating of 50 hp or higher shall meet, at a minimum, the Tier 3 California Emission Standards for Off-Road Compression-Ignition Engines, as specified in California Code of Regulations, Title 13, § 2423(b)(1), unless certified by the on-site AQCMM that such engine is not available for a particular item of equipment. This good faith effort shall be documented with signed written correspondence by the appropriate construction contractors, along with documented correspondence with at least two construction equipment rental firms.						Yes		Ongoing		
60	AQ-SC	5	C	MCR	In the event that a Tier 3 engine is not available for any off-road equipment larger than 50 hp, that equipment shall be equipped with a Tier 2 engine or an engine that is equipped with retrofit controls to reduce exhaust emissions of nitrogen oxides (NOx) and diesel particulate matter (DPM) to no more than Tier 2 levels, unless certified by engine manufacturers or the on-site AQCMM that the use of such devices is not practical for specific engine types. For purposes of this condition, the use of such devices is "not practical" for the following, as well as other, reasons:						Yes		Ongoing		
61	AQ-SC	5	C	MCR	1. There is no available retrofit control device that has been verified by either the California Air Resources Board or U.S. Environmental Protection Agency to control the engine in question to Tier 2 equivalent emission levels and either a Tier 1 engine or the highest level of available control is being used; or						Yes		Ongoing		
62	AQ-SC	5	C	MCR	2. The construction equipment is intended to be on site for five days or less.						Yes		Ongoing		
63	AQ-SC	5	C	MCR	3. The CPM may grant relief from this requirement if the AQCMM can demonstrate a good faith effort to comply with this requirement and that compliance is not possible.						Yes		Ongoing		
64	AQ-SC	5	C	MCR	4. Equipment owned by specialty subcontractors may be granted an exemption, for single equipment items on a case-by-case basis, if it can be demonstrated that extreme financial hardship would occur if the specialty subcontractor had to rent replacement equipment, or if it can be demonstrated that a specialized equipment item is not available by rental.						Yes		Ongoing		

Grimes Pipeline Project Compliance Matrix

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65	AQ-SC	5	C	MCR	C. The use of a retrofit control device may be terminated immediately, provided that the CPM is informed within 10 working days of the termination and the AQCMM demonstrates that one of the following conditions exists:						Yes		Ongoing		
66	AQ-SC	5	C	MCR	1. The use of the control device is excessively reducing the normal availability of the construction equipment due to increased down time for maintenance, and/or reduced power output due to an excessive increase in back pressure.						Yes		Ongoing		
67	AQ-SC	5	C	MCR	2. The control device is causing or is reasonably expected to cause significant engine damage.						Yes		Ongoing		
68	AQ-SC	5	C	MCR	3. The control device is causing or is reasonably expected to cause a significant risk to workers or the public.						Yes		Ongoing		
69	AQ-SC	5	C	MCR	4. Any other seriously detrimental cause which has the approval of the CPM prior to implementation of the termination.						Yes		Ongoing		
70	AQ-SC	5	C	MCR	D. All heavy earth-moving equipment and heavy duty construction-related trucks with engines meeting the requirements of (b) above shall be properly maintained and the engines tuned to the engine manufacturer's specifications.						Yes		Ongoing		
71	AQ-SC	5	C	MCR	E. All diesel heavy construction equipment shall not idle for more than five minutes, to the extent practical.						Yes		Ongoing		
72	AQ-SC	5	C	MCR	F. Construction equipment will employ electric motors when feasible.						Yes		Ongoing		

Grimes Pipeline Project Compliance Matrix

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Grimes Pipeline Project Compliance Matrix

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Grimes Pipeline Project Compliance Matrix

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Grimes Pipeline Project Compliance Matrix

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1	BIO	2	C	MCR	The CPM approved Designated Biologist shall perform following duties: 1) advise the project owner's supervising construction or operations engineer on the implementation of the biological resources Conditions of Certification; 2) supervise or conduct mitigation, monitoring and other biological resources compliance efforts, particularly in areas requiring avoidance or contain sensitive biological resources, such as wetlands and special status species; 3) direct access and construction activities that occur within 200 feet of giant garter snake habitat. The Designated Biologist shall conduct WEAP training (BIO-4), preconstruction surveys for giant garter snake (BIO-8), survey open excavations and trenches every morning prior to start of work, and be present during all work with special attention to excavations, spoil placement, backfilling, and silt fence/snake fence installation and removal; and 4) notify the project owner and the CPM of any non-compliance with any Condition.	No construction-related ground disturbance, grading, boring, or trenching shall commence until an approved Designated Biologist is available to be on site. If a Designated Biologist needs to be replaced, the specified information of the proposed replacement must be submitted to the CPM at least 10 working days prior to the termination or release of the preceding Designated Biologist. The Designated Biologist shall maintain written records of the tasks described above, and summaries of these records shall be submitted along with the Monthly Compliance Reports to the CPM.	Prior to replacement	10			Yes		As needed		

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Grimes Pipeline Project Compliance Matrix

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1	BIO	2a	C	MCR		If additional Biological Monitors are needed during construction the specified information shall be submitted to the CPM and for approval at least 10 days prior to their first day of monitoring activities. The Biological Monitor shall submit in the Monthly Compliance Report to the CPM copies of all written reports and summaries that document biological resources compliance activities.	Prior to first day	10			Yes		As needed		

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Grimes Pipeline Project Compliance Matrix

	A	B	C	D	E	F (97-AFC-02)	G	H	I	J	K	L	M	N	O
1		No.	SORT CODE	PERIODIC REPORTS	Description of Project Owner Responsibilities (Conditions of Certification)	Verification/Action/Submittal Required by Project Owner	Timeframe	Days	Date sent to CEC/CBO	Date of approval of action or submittal	Conditions Applicable to Grimes Pipeline Project?	Comments	Status	CEC Tracking Number	CEC Status
104	BIO	3	C		The project owner's supervising construction and operating engineer shall act on the advice of the designated biologist to ensure conformance with the biological resource Conditions of Certification. <u>Protocol:</u> The project owner's supervising construction and operating engineer shall halt, if needed, all construction activities in areas specifically identified by the designated biologist as sensitive to assure that potential significant biological resource impacts are avoided.	Within two working days of a designated biologist's notification of non-compliance with a Biological Resources Condition or a halt of construction, the project owner shall notify the CPM by telephone of the circumstances and actions being taken to resolve the problem or the non-compliance with a condition.	After notice of non-compliance	2			Yes		As needed		
105	BIO	3	C		The designated biologist shall; 1) tell the project owner and the supervising construction and operating engineer when to resume construction ; and 2) advise the CPM if any corrective actions are needed or have been instituted.	For any necessary corrective action taken by the project owner, a determination of success or failure will be made by the CPM within five working days after receipt of notice that corrective action is completed, or the project owner will be notified by the CPM that coordination with other agencies will require additional time before a determination can be made.	After receipt of corrective action notice	5			Yes		As needed		
108	BIO	4	C	MCR	consist of an on-site or classroom presentation in which supporting written material is made available to all participants; 2) must discuss the locations and types of sensitive biological resources on the project site and adjacent areas specifically training workers to recognize giant garter snakes, their habitat (s), nature and purpose of protection measures, the need to report all sightings of giant garter snakes, consequences of not complying with permit conditions and measures, and the terms and conditions of any permit applicable to the project. The Designated Biologist must identify giant garter snake habitat areas and indicate to all site personnel that they are Environmentally Sensitive Areas in the WEAP training;3) must present the reasons for protecting these resources; 4) must present the meaning of various temporary and permanent habitat protection measures; and 5) must identify who to contact, if there are further comments and questions about the material discussed in the program. The specific program shall be administered by the Designated Biologist.	The project owner shall state in the Monthly Compliance Report the number of persons who have completed the training in the prior month and a running total of all persons who have completed the training to date.	Monthly				Yes		Ongoing		

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1	BIO	7	C	MCR	2. WORK PERIOD EXTENSIONS. At the CPM's discretion based on consultation with the CDFG, the work period may be extended based on the extent of the work remaining, on site conditions and reasonable anticipated future conditions. If the project owner finds more time is needed to complete the authorized activity, the project owner shall submit a written request for a work period time extension to the CPM with a copy to CDFG. The work period extension request shall provide the following information: 1) Describe the extent of work already completed; 2) Provide specific detail of the activities that remain to be completed within the stream zone; and 3) Detail the actual time required to complete each of the remaining activities within the stream zone.	Upon completion of the project activities, the project owner shall digitally photograph the work area within the stream zone and document photos in the final Monthly Compliance Report and submit to the CPM. A copy of the final Monthly Compliance Report with final site work photographs shall also be submitted to CDFG at the address above. All mitigation measures and their implementation methods shall be included in the BRMIMP. All work activities that occur in the stream zone shall be described and summarized in each Monthly Compliance Report.	Completion of project				Yes		Ongoing		
116	BIO	7	C		The work period extension request should consider the effects of increased stream conditions, rain delays, increased erosion control measures, limited access due to saturated soil conditions and limited growth of erosion control grasses due to cool weather. Photographs of the work completed and the proposed extensions are issued at the discretion of the CPM based on consultation with CDFG. The CPM upon consultation with CDFG, reserves the right to require additional measures designed to protect natural resources.	Within 30 days after completion of project construction, the project owner shall provide to the CPM, for review and approval, a written construction termination report identifying how measures have been completed.	Completion of Project	30			Yes		As Needed		
117	BIO	7	C		3. NO EQUIPMENT SHALL WORK IN THE WATER.						Yes		Ongoing		
118	BIO	7	C		4. Escape Ramp In Excavation Pits. At the end of each work day, an escape ramp shall be placed at each end of the open excavation to allow any animals that may have been entrapped in the trench to climb out overnight. The ramp may be constructed of either dirt fill or wood planking or other suitable material that is placed at an angle no greater than 30 degrees.						Yes		Ongoing		
119	BIO	7	C												

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120	BIO	7	C	5. BIOLOGICAL MONITOR. The project owner shall provide a Designated Biologist or Biological Monitor with qualifications, roles, and responsibilities specified in BIO-1, BIO-2a, and BIO-3.						Yes		Ongoing			
122	BIO	7	C	7. COVER OPEN PIPES. Open ends of pipes, conduits and similar materials shall be covered to exclude wildlife. Such materials shall be checked for signs of wildlife prior to disturbance.						Yes		Ongoing			
123	BIO	7	C	8. GARBAGE STORAGE AND REMOVAL. Food wrappers and construction-related garbage shall be contained in covered garbage cans and removed from the site.						Yes		Ongoing			
124	BIO	7	C	9. NO PETS, FIREARMS OR CAMPFIRES. Workers will not be allowed to bring pets or firearms to the project area nor light campfires within the project area.						Yes		Ongoing			
125	BIO	7	C	10. HEAVY EQUIPMENT CONFINED TO EXISTING ROADS. Construction activities that occur within suitable giant garter snake upland habitat will be minimized. When possible, movement of heavy equipment shall be confined to existing roadways to minimize disturbance.						Yes		Ongoing			
126	BIO	7	C	11. RESTORATION OF WORK SITE/EXCAVATED SOIL REMOVAL OR DISTRIBUTION. After completion of construction activities, temporary fill and construction debris shall be removed and disturbed areas shall be restored to pre-project conditions, see BIO-8 #15. Excavated soil shall either be removed from work site or backfilled into excavations. With approval from the CPM, some excess excavated soil may be distributed over the existing work area.						Yes		Ongoing			

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127	BIO	7	C		12. COVER SPOIL PILES. The project owner's contractor shall have readily available plastic sheeting or visquine and will cover exposed spoil piles and exposed areas to prevent these areas from losing loose soil into the stream. These covering materials shall be applied when it is evident rainy conditions threaten to erode loose soils into the stream.						Yes		Ongoing		
128	BIO	7	C		13. EQUIPMENT OVER DRIP PANS. Stationary equipment such as motors, pumps, generators, and welders, located within or adjacent to the stream/lake shall be positioned over drip pans.						Yes		Ongoing		
129	BIO	7	C		14. CHECK VEHICLES/EQUIPMENT DAILY. Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily to prevent leaks of materials that if introduced to water could be deleterious to aquatic life, wildlife, or riparian habitat.						Yes		Ongoing		
130	BIO	7	C		15. CONTROL DRILLING MUD. At no time shall drill cuttings, drilling mud, and/or materials or water contaminated with bentonite or any other substance deemed deleterious to fish and wildlife be allowed to enter the stream or be placed where they may be washed into the stream. Any contaminated water/materials from the drilling and/or project activities shall be pumped or placed into a holding facility and removed for proper disposal.						Yes		Ongoing		
131	BIO	7	C		16. VEGETATION REMOVAL. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. No native trees shall be removed or damaged without prior consultation and approval of the CPM and a CDFG representative. Using hand tools (clippers, chain saw, etc.), trees may be trimmed to the extent necessary to gain access to the work sites. All cleared materials/vegetation shall be removed out of the riparian/stream zone.						Yes		Ongoing		

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132	BIO	7	C		17. SEDIMENT CONTROL. Precautions to minimize turbidity/siltation shall be taken into account during project planning and implementation. This may require the placement of silt fencing, coir logs, coir rolls, straw bale dikes, or other siltation barriers so that silt and/or other deleterious materials are not allowed to pass to downstream reaches. Passage of sediment beyond the sediment barrier(s) is prohibited. If sediment barrier fails to retain sediment, corrective measures shall be taken. The sediment barrier(s) shall be maintained in good operating condition throughout the construction period and the following rainy season. damaged silt fencing, coir logs, coir rolls, and/or straw dikes. Products with plastic monofilament or jute netting (such as found in straw wattles/fiber rolls and some erosion control blankets) shall not be allowed. Wildlife-friendly erosion control and sediment control products that will not entangle snakes and other wildlife shall be used instead. Special provisions shall be included in the bid solicitation package that prohibit the use of monofilament or jute netting. If this is not possible, the contractors, subcontractors and anyone performing erosion or sediment control work on this project, shall be specifically instructed that these products are not allowed on the work site. The project owner is responsible for the, removal of non-biodegradable silt barriers after the disturbed areas have been stabilized with erosion control vegetation (usually after the first growing season).						Yes		Ongoing		
133	BIO	7	C		Upon the CPM's determination that turbidity/siltation levels resulting from project-related activities constitute a threat to aquatic life, activities associated with the turbidity/siltation shall be halted until effective CPM-approved (based upon consultation with CDFG) control devices are installed or abatement procedures are initiated.		During construction				Yes		Ongoing		

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134	BIO	7	C		18. POLLUTION CONTROL. Utilize Best Management Practices to prevent spills and leaks into water bodies. If maintenance or refueling of vehicles or equipment must occur on-site, use a designated area and/or a secondary containment, located away from drainage courses to prevent the runoff of storm water and the runoff of spills. Ensure that all vehicles and equipment are in good working order (no leaks). Place drip pans or absorbent materials under vehicles and equipment while not in use. Ensure that all construction areas have proper spill cleanup materials (absorbent pads, sealed containers, booms, etc.) to contain the movement of any spilled substances. Any substances which could be hazardous to aquatic life, resulting from project related activities, shall be prevented from contaminating the soil and/or entering the waters of the state.	The project owners shall notify the CPM and CDFG within two (2) business days in the event of any spills into state waters regarding clean-up procedures.	After spill event	2			Yes		Ongoing			
135	BIO	7	C		Any of these materials, placed within or where they may enter a stream or lake by the project owner or any party working under contract or with the permission of the project owner, shall be removed immediately. The CPM and CDFG shall be notified immediately by the project owner of any spills and shall be consulted regarding clean-up procedures.		During construction	Immediately			Yes		Ongoing			
138	BIO	8	C		Giant Garter Snake Impact Avoidance and Minimization Measures The project owner shall ensure the following measures are implemented to avoid or mitigate project impacts to giant garter snakes during construction in accordance with CDFG's Final Lake or Streambed Alteration Agreement (CDFG 2011), USFWS's Biological Opinion issued for the project (USFWS 2011), and USFWS'S Guidelines for Restoration and/or Replacement of Giant Garter Snake Habitat (USFWS Appendix A).						Yes		Ongoing			

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1	BIO	8	C		2. An agency approved Designated Biologist will be onsite during all construction activities within 200 feet of aquatic habitat for GGS. The Designated Biologist will ensure that all measures related to GGS are followed and have the authority to stop construction if they are not. Any open trenches will be inspected daily for trapped snakes.	The project owner shall report any GGS sightings, work stoppage, and any incidental take to the CPM, USFWS at (916) 414-6600, and CDFG's Lake or Streambed Alteration Program contact listed previously within two (2) business days of the event. A California Natural Diversity Database field form shall be submitted to CDFG for giant garter snake sightings within 10 days of GGS sighting within the construction area.	After event	2 10			Yes		As Needed		
140	BIO	8	C		3. Preconstruction Surveys for GGS. No more than 24 hours prior to construction activities, the Designated Biologist shall survey the work areas within potential giant garter snake habitat for giant garter snakes. Surveys of work areas shall be repeated if a lapse in construction activity of 48 hours or greater has occurred. The results of this preconstruction survey shall be reported to the CPM, USFWS, and CDFG, even if no snakes are observed.	Within 10 days of completing the GGS-pre-construction survey, the project owner shall submit a letter report documenting results of the survey to the CPM with copies to the USFWS and CDFG. Within 30 days of completing the fourth quarter monitoring survey of temporarily disturbed/restored habitat areas, the project owner shall submit an annual monitoring report (USFWS Appendix D) to the CPM, USFWS, and CDFG including pre- and post-photographs.	Completing GGS-PC Survey Completion of 4th quarter monitoring	10 30			Yes		Ongoing		
141	BIO	8	C	MCR	4) Avoid obstructing the flow of water through the canals (dewatering). Any dewatered habitat must remain dry for at least 15 consecutive days after April 15 and 15 consecutive days prior to excavating or filling dewatered habitat.	All mitigation measures and their implementation methods shall be included in the BRMIMP. Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designed Biologist. Within 30 days after completion of project construction, the project owner shall provide to the CPM, for review and approval, a written construction termination report identifying how measures have been completed.	Monthly Completion of construction	30			Yes		Ongoing		
142	BIO	8	C		5) Prevent runoff from construction activities from entering giant garter snake habitat.		During construction				Yes		Ongoing		
143	BIO	8	C		6) Restrict vegetation clearing to the minimal area necessary to facilitate construction activities.		During construction				Yes		Ongoing		
144	BIO	8	C												

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147	BIO	8	C		9) Conduct activities to clear vegetation in the irrigation canals as necessary to minimize disturbance to snake habitat and in accordance with methods approved by CDFG and USFWS.		During construction				Yes		Ongoing		
149	BIO	8	C		11) Check for Snakes Under Vehicles. The Designated Biologist as well as all construction personnel shall visually check for snakes under parked vehicles and equipment within giant garter snake habitat prior to moving them (vehicles). If snake or other listed species are observed by crews, construction personnel will contact the Designated Biologist.		During construction				Yes		Ongoing		
150	BIO	8	C		12) Snake fencing/Silt fencing. If excavation pits will be left open for multiple days, silt fencing (geotextile filter fabric on wooden stakes) or an agency-approved alternative shall be installed (and partially buried per standard specifications) on the ditch side of the excavation pits to keep snakes and other wildlife from entering the pits. The Designated Biologist or approved Biological Monitor shall inspect any open trenches daily within 200 feet of aquatic habitat for trapped snakes.		During construction				Yes		Ongoing		
151	BIO	8	C		13) Spill Placement. To prevent burying, trapping, or crushing giant garter snakes, spoil from project operations shall not be placed on or near the canal banks where there is a risk of covering rodent burrows or bank-top soil crevices.						Yes		Ongoing		
152	BIO	8	C	MCR	14) Giant Garter Snake Encounters. If a giant garter snake is encountered during construction or preconstruction surveys, activities shall cease at that work area until the appropriate corrective measures have been completed, the animal has moved out of the work area on its own, or it has been determined that the snake will not be harmed. Sightings, work stoppage, and any incidental take will be immediately reported to the CPM, USFWS at (926) 414-6600, and CDFG's Lake or Streambed Alteration Program contact listed previously. A California Natural Diversity Database field form shall be submitted to CDFG for all giant garter snake sightings. Sightings shall also be documented in Monthly Compliance Reports.						Yes		Ongoing		

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154	BIO	8	C		16) Speed Limits. Where practical and safe to do so and to minimize the effects of increased traffic in the construction area, vehicle speed within giant garter snake habitat areas of the project shall be limited to 15 mph on unimproved access routes and roadways to avoid running over snakes. Speed limits will be posted on all project-controlled roads leading to construction areas.						Yes		Ongoing			
156	BIO	9	PC/C	MCR		If a Swainson's hawk nest is identified within 0.50 mile of project construction areas, the project owner shall notify the CPM and CDFG North Central Region office within two (2) business days. If any nests are identified during the preconstruction nesting bird survey, all mitigation measures and their implementation methods shall be included in the BRMIMP. Implementation of nest monitoring measures shall be reported in the Monthly Compliance Reports by the Designated Biologist.	Discovery of Swainson's Hawk nest	2	3/19/12 Email		Yes		PC Complete C As Needed	2012-0454	closed	

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166	BIO	11	C	MCR		All work activities that occur in Waters of the U.S. shall be described and summarized in each Monthly Compliance Report.					Yes		Ongoing			
171	BIO	12	C			Project owner shall notify the CPM five working days before implementing any modifications to the Biological Resources Mitigation Implementation and Monitoring Plan.	Before modification	5			Yes		Ongoing			
177	BIO	14	C	MCR		Implementation of this measure including monitoring of the shrub during construction shall be reported in the Monthly Compliance Reports by the Designated Biologist or Biological Monitor.					Yes		Ongoing			

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	NOISE	2	C		Throughout the construction and operation of the project, the project owner shall document, investigate, evaluate, and attempt to resolve all project related noise complaints. Protocol: The project owner or authorized agent shall: - use the Noise Complaint Resolution Form (see next page for example), or functionally equivalent procedure acceptable to the CPM, to document and respond to each noise complaint; use the Noise Complaint Resolution Form (see next page for example), or functionally equivalent procedure acceptable to the CPM, to document and respond to each noise complaint; attempt go contact the person(s) making the noise complaint within 24 hours; conduct an investigation to determine the source of noise related to the complaint; if the noise is project related, take all feasible measures to reduce the noise at its source; and submit a report documenting the complaint and the actions taken. The report shall include: a complaint summary, including final results of noise reduction efforts; and if obtainable, a signed statement by the complainant stating that the noise problem is resolved to complainant's satisfaction. and - attempt to contact the person(s) making the noise complaint within 24 hours: - conduct an investigation to determine the source of noise related to the complaint; - if the noise is project related, take all feasible measures to reduce the noise at its source; - submit a report documenting the complaint and the actions taken.	Within 30 days of receiving a noise complaint, the project owner shall file a copy of the Noise Complaint Resolution Form, or similar instrument approved the CPM, with the Sutter County Community Services Department and with the CPM documenting the resolution of the complaint. If mitigation is required to resolve a complaint, and the complaint is not resolved within a 30 day period, the project owner shall submit an updated Noise Complaint Resolution form when the mitigation is finally implemented.	After receiving a noise complaint.	30			Yes		As Needed			

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182	NOISE	2	C		the report shall include: a complaint summary, including final results of noise reduction efforts; and if obtainable, a signed statement by the complainant stating that the noise problem is resolved to complainant's satisfaction.						Yes		As Needed		

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190	TRANS	1	C	MCR	Project owner shall comply with California Department of Transportation and Sutter County limitation on vehicle sizes and weights. Project owner or its contractor shall obtain necessary transportation permits from Caltrans and all relevant jurisdictions for both rail and roadway use.	In monthly compliance reports, Project owner shall submit copies of any oversize and overweight transportation permits received during that reporting period. Project owner shall retain copies of these permits and supporting documentation in its compliance file for at least six months after the start of commercial operation.	During construction				Yes		As Needed		
191	TRANS	2	C	MCR	Project owner or its contractor shall comply with California Department of Transportation (Caltrans) and Sutter County limitations for encroachment into public rights-of-way and shall obtain necessary encroachment permits from Caltrans and all relevant jurisdictions.	Project owner shall submit copies of any encroachment permits received during the reporting period.	During construction				Yes		As Needed		
193	TRANS	3	C	MCR	Project owner shall ensure that all federal and state regulations for the transport of hazardous materials are observed.	Project owner shall include in its monthly compliance reports copies of all permits and licenses acquired by the project owner and/or subcontractors concerning the transport of hazardous substances.	Monthly				Yes		As Needed		

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213	WASTE	1	C	MCR	The project owner shall obtain a hazardous waste generator identification number and hazardous waste treatment permit for neutralization facilities from the Department of Toxic Substances Control prior to generating any hazardous waste.	The project owner shall keep copies of the identification number and permit on file at the project site and notify the CPM via the monthly compliance report of their receipt.					Yes		As Needed			
214	WASTE	2	C		The project owner shall notify the CPM of any waste management-related enforcement action taken or proposed to be taken against it, or against any waste hauler or disposal facility or treatment operator that the owner contracts with.	The project owner shall notify the CPM within 10 days of becoming aware of an impending enforcement action.	Prior to enforcement action	10			Yes		As Needed			
217	WASTE	3	C	ACR		In the Annual Compliance Reports, the project owner shall document how actual waste management methods compared to planned management methods during the year.					Yes					
219	WASTE	4	C		A SMP summary report, which includes all analytical data and other findings, must be submitted once the earthwork has been completed.		Once earthwork completed.				Yes					

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1	CUL	15.1	C		The CRS or any subsequent CRS alternate shall, on behalf of the project owner, have the sole responsibility for the implementation of the Cultural Resources Conditions of Certification (Conditions) (CUL-1– CUL-15) in a manner that is consistent with the terms of those conditions and with the terms of the General Conditions. The CRS or any subsequent CRS alternate may elect to obtain the services of Cultural Resources Monitors (CRMs) or other technical specialists, as needed, to assist in the implementation of the Conditions. The project owner shall ensure that the CRS or any subsequent CRS alternate makes recommendations on the California Register of Historical Resources (CRHR) eligibility of any new cultural resources that are found during the construction of the Grimes Pipeline project, or on any known cultural resources that the CRS or any subsequent CRS alternate determines to have the potential to be affected in an unanticipated manner. No ground disturbance related to the Grimes Pipeline project shall occur prior to Compliance Project Manager (CPM) approval of the CRS and alternates, unless such activities are specifically approved by the CPM.	V.15.1-2. At least 10 days prior to a termination or release of the CRS, or within 10 days after the resignation of a CRS, the project owner shall submit the resume of the proposed new CRS, if different from the CRS alternate, to the CPM for review and approval. At the same time, the project owner shall also provide to the proposed new CRS the AFC and all cultural resources materials generated by the project. If no CRS alternate is available to assume the duties of the CRS, the project owner shall designate a CRM to serve in place of a CRS for a maximum of 3 days. If cultural resources are discovered, project construction will remain halted until there is a CRS or CRS alternate to make a recommendation regarding significance.	During construction, prior to termination or release or after resignation.	10			Yes		Ongoing		
242	CUL	15.1	C			V.15.1-5. At least 10 days prior to any technical specialists, other than CRMs, beginning tasks, the resume(s) of the specialists shall be provided to the CPM for review and approval.	During construction	10	Resumes submitted 1/31/12		Yes		Complete	2012-0132	Under review
246	CUL	15.2	C		The project owner shall notify the CRS and CPM of any changes to the proposed scheduling of the construction phases. [V15.2-1 - V15.2-5]	V.15.2-4. Weekly, during project construction, a current schedule of anticipated project activity shall be provided to the CRS and CPM by letter, e-mail, or fax.	During construction	Weekly			Yes		Ongoing		
252	CUL	15.2	C			V.15.2-5. Within 5 days of changing the scheduling of phases of a phased project, the project owner shall provide written notice of the changes to the CRS and CPM.	During construction	5			Yes		NA only 1 phase		
253	CUL	15.3	C		Copies of the CRMMP shall reside with the CRS, alternate CRS, each CRM, and the project owner's on-site construction manager. No project construction shall commence prior to CPM approval of the CRMMP, unless such activities are specifically approved by the CPM.	V.15.3-3. At least 5 days prior to additional CRMs beginning on-site duties during the project, the CRS shall provide letters to the CPM identifying the new CRMs and attesting to their qualifications.	During construction	5			Yes		As Needed		
256	CUL	15.3	C												

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274	CUL	15.6	C	MCR	The project owner shall obtain the services of one or more Native Americans to monitor all ground disturbance related to project construction. Contact lists of interested Native Americans and guidelines for monitoring shall be obtained from the Native American Heritage Commission. Preference in selecting a monitor shall be given to Native Americans with traditional ties to the area where the project is located, but the project owner shall make a reasonable and good faith effort to accommodate equally all groups expressing the desire to monitor. If efforts to obtain the services of at least one qualified Native American monitor, acceptable to all groups that want monitoring, are unsuccessful, the project owner shall immediately inform the CPM. The CPM may either identify potential monitors or allow ground disturbance to proceed without a Native American monitor.	V.15.6-3. Monthly, while monitoring is on-going, the project owner shall include in each MCR a copy of the monthly summary report of cultural resources-related monitoring prepared by the CRS and shall attach any new DPR 523A forms completed for finds treated prescriptively, as specified in the CRMMP.	During monitoring	Monthly			Yes		Ongoing		
275	CUL	15.6	C		The research design in the CRMMP developed under CUL-15.3 shall govern the collection, treatment, retention/disposal, and curation of any archaeological materials encountered.	V.15.6-4. At least 24 hours prior to implementing a proposed change in monitoring level, the project owner shall submit to the CPM, for review and approval, a letter or e-mail (or some other form of communication acceptable to the CPM) detailing the CRS's justification for changing the monitoring level.	During monitoring	24 hours		Yes			As Needed		
276	CUL	15.6	C	MCR	On forms provided by the CPM, CRMs shall keep a daily log of any monitoring and other cultural resources activities and any instances of non-compliance with the Conditions and/or applicable LORS. Copies of the daily monitoring logs shall be provided by the CRS to the CPM, if requested by the CPM. From these logs, the CRS shall compile a monthly monitoring summary report to be included in the MCR. If there are no monitoring activities, the summary report shall specify why monitoring has been suspended.	V.15.6-5. Daily, as long as no cultural resources are found, the CRS shall provide a statement that "no cultural resources over 50 years of age were discovered" to the CPM as an e-mail or in some other form of communication acceptable to the CPM.	During monitoring	Daily		Yes		Ongoing			
277	CUL	15.6	C		The CRS or alternate CRS shall report daily to the CPM on the status of the project's cultural resources-related activities, unless reducing or ending daily reporting is requested by the CRS and approved by the CPM.	V.15.6-6. At least 24 hours prior to reducing or ending daily reporting, the project owner shall submit to the CPM, for review and approval, a letter or e-mail (or some other form of communication acceptable to the CPM) detailing the CRS's justification for reducing or ending daily reporting.	During monitoring	24 hours		Yes			As Needed		

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278	CUL	15.6	C		In the event that the CRS believes that the current level of monitoring is not appropriate in certain locations, a letter or e-mail detailing the justification for changing the level of monitoring shall be provided to the CPM for review and approval prior to any change in the level of monitoring.					Yes		As Needed			
279	CUL	15.6	C		The CRS, at his or her discretion, or at the request of the CPM, may informally discuss cultural resources monitoring and mitigation activities with Energy Commission technical staff.					Yes		As Needed			
280	CUL	15.6	C		Cultural resources monitoring activities are the responsibility of the CRS. Any interference with monitoring activities, removal of a monitor from duties assigned by the CRS, or direction to a monitor to relocate monitoring activities by anyone other than the CRS shall be considered non-compliance with these Conditions.					Yes		Ongoing			
281	CUL	15.6	C	MCR	Upon becoming aware of any incidents of non-compliance with the Conditions and/or applicable LORS, the CRS and/or the project owner shall notify the CPM by telephone or e-mail within 24 hours. The CRS shall also recommend corrective action to resolve the problem or achieve compliance with the Conditions. When the issue is resolved, the CRS shall write a report describing the issue, the resolution of the issue, and the effectiveness of the resolution measures. This report shall be provided in the next MCR for the review of the CPM. [V15.6-1-V.15.6-6]					Yes		Ongoing			
284	CUL	15.7	C		If the discovery includes human remains, the project owner shall comply with the requirements of Health and Safety Code, section 7050.5(c) and Public Resources Code, section 5097.98, and shall notify the CPM and the NAHC of the discovery of human remains. Monitoring and daily reporting, as provided in other conditions, shall continue during the project's ground disturbance activities elsewhere. The halting or redirection of ground disturbance shall remain in effect until the CRS has visited the discovery, and all of the following have occurred:					Yes		As Needed			

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285	CUL	15.7	C	1. The CRS has notified the project owner, and the CPM has been notified within 24 hours of the discovery, or by Monday morning if the cultural resources discovery occurs between 8:00 AM on Friday and 8:00 on Sunday morning, including a description of the discovery (or changes in character or attributes), the action taken (i.e., work stoppage or redirection), a recommendation of CRHR eligibility, and recommendations for data recovery from any cultural resources discoveries, whether or not a determination of CRHR eligibility has been made.	V.15.7-2. Unless the discovery can be treated prescriptively, as specified in the CRMMP, completed DPR 523 forms for resources newly discovered during project construction shall be submitted to the CPM for review and approval no later than 24 hours following the notification of the CPM, or 48 hours following the completion of data recordation/recovery, whichever the CRS decides is more appropriate for the subject cultural resource.	During monitoring	24 hours			Yes		As Needed			
286	CUL	15.7	C	2. If the discovery would be of interest to Native Americans, the CRS has notified all Native American groups that expressed a desire to be notified in the event of such a discovery.	V.15.7-3. Within 48 hours of the discovery of a resource of interest to Native Americans, the project owner shall ensure that the CRS notifies all Native American groups that expressed a desire to be notified in the event of such a discovery, and the CRS must inform the CPM	During monitoring	48 hours			Yes		As Needed			
287	CUL	15.7	C	3. The CRS has completed field notes, measurements, and photography for a DPR 523 "Primary" form. Unless the find can be treated prescriptively, as specified in the CRMMP, the "Description" entry of the DPR 523 "Primary" form shall include a recommendation on the CRHR eligibility of the discovery. The project owner shall submit completed forms to the CPM.						Yes		Ongoing			
288	CUL	15.7	C	4. The CRS, the project owner, and the CPM have conferred, and the CPM has concurred with the recommended eligibility of the discovery and approved the CRS's proposed data recovery, if any, including the curation of the artifacts, or other appropriate mitigation; and any necessary data recovery and mitigation have been completed. Ground disturbance may resume only with the approval of the CPM. [V15.7.1-V15.7-3]						Yes		Ongoing			

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1	PAL	1	C		As determined by the CPM, the PRS shall meet the minimum qualifications for a vertebrate paleontologist as described in the Society of Vertebrate Paleontology (SCP) guidelines of 1995. The experience of the PRS shall include the following: 1. institutional affiliations, appropriate credentials, and college degree; 2. ability to recognize and collect fossils in the field; 3. local geological and biostratigraphic expertise; 4. proficiency in identifying vertebrate and invertebrate fossils; and 5. at least three years of paleontological resource mitigation and field experience in California and at least one year of experience leading paleontological resources mitigation and field activities.	(3) Prior to the termination or release of a PRS, the project owner shall submit the resume of the proposed new PRS to the CPM for review and approval.	Monitoring	Prior to release			Yes		As Needed		
294	PAL	6	C	MCR	Prior to start of construction, and throughout the project construction period as needed for all new employees, the project owner and the designated paleontological resources specialist shall provide the CPM-approved training all project managers, construction supervisors, and workers who operate ground disturbing equipment. The project owner and construction manager shall provide w the workers with the CPM-approved set of procedures for reporting any sensitive paleontologic resources or fossil-bearing sediments that may be discovered during project-related ground disturbance.	Prior to start of construction, and throughout the project construction period as needed for all new employees, the project owner and the designated paleontological resources specialist shall present the CPM-approved training program on the potential for project impacts to sensitive paleontologic resources encountered during project activities. The project owner shall provide documentation in the Monthly Compliance Report to the CPM that the employee training and the set of procedures have been provided to all project managers, construction supervisors, and to all workers.	Prior to construction				Yes		Ongoing		
305	PAL	7	C	MCR	Throughout the project construction period, the project owner shall provide the designated paleontologic resource specialist with a current schedule of anticipated weekly project activity and a map indicating the area(s) where construction activities will occur. The designated paleontologic resources specialist shall consult daily with the project superintendent or construction field manager to confirm the area(s) to be worked on the next day(s). Throughout the paleontologic resources pre-construction reconnaissance, monitoring and mitigation phases of the project, the designated paleontologic resources specialist shall keep a daily log of any fossil resource finds and the progress or status of the surveys, resource monitoring, mitigation, preparation, identification, and analytical work begin conducted for the project. The designated paleontologic resources specialist may informally discuss the paleontologic resources monitoring and mitigation activities with the Commission technical counterpart.	The project owner shall include, in the Monthly Compliance Reports to the CPM, a summary of the daily logs prepared by the designated paleontologic resource specialist.	During construction	Monthly			Yes		Ongoing		
306															

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307	PAL	8	C	MCR	The designated paleontologic resource monitor shall be present at all times to monitor construction-related grading, excavation, trenching, and/or auguring in areas where remnant river terrace deposits have been found.	The project owner shall include in the Monthly Compliance Reports to the CPM, a summary of the daily logs prepared by the designated paleontologic resource specialist.	During construction	Monthly			Yes		Ongoing		
308	PAL	8	C	MCR	These terrace remnants have been generally correlated with soils of the Conejo-Tisdale group and Pleistocene-age fossil materials may be present. Other sections of the linear facility routes may be monitored as deemed necessary by the designated paleontologic resources specialist.						Yes		Ongoing		
309	PAL	9	C		The project owner, through the designated paleontologic resources specialist, shall ensure the recovery, preparation for analysis, identification and inventory, the preparation for curation, and the delivery for curation of all significant paleontologic resource materials encountered and collected during pre-construction surveys and during the monitoring, data recovery, mapping, and mitigation activities related to the project.	The project owner shall maintain, in its compliance files, copies of signed contracts or agreements with the designated paleontologic resource specialist and other qualified research specialist. These specialists will ensure the necessary data and fossil recovery, mapping, preparation for analysis, analysis, identification and inventory, and preparation and delivery for curation of all significant paleontologic resource materials collected during data recovery and mitigation for the project. The project owner shall keep these files available for periodic audit by the CPM.	During preconstruction and construction				Yes		Ongoing		
310	PAL	10	C		The project owner shall ensure preparation of a Preliminary Paleontologic Resources Report following completion of data recovery and site mitigation work. The preliminary report is to be prepared by the designated paleontologic resources specialist and submitted to the CPM for review, comment, and written approval. <u>Protocol</u> : The preliminary report shall include (but not be limited to) preliminary information on the survey report(s), methodology, and recommendation; site records and maps; determination of sensitivity and significance; data recovery and other mitigation activities; possible results and findings of any analysis to be conducted on recovered paleontologic resources materials and data; proposed research questions that may be answered or may have been raised by the data from the project; and an estimate of the time needed to complete the analysis of recovered fossil materials and prepare a final report. If no fossil resources were recovered during project construction, the CPM-approved preliminary report shall also serve as the final report and shall be filed with appropriate entities, as described in conditions PAL-11 and PAL-12.	Within ninety (90) days following completion of the data recovery and site mitigation work, the project owner shall submit a copy of the Preliminary Paleontologic Resources Report to the CPM for review, comment, and written approval.	Completion of data recovery and site mitigation	90			Yes		As Needed		

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317	GEN	2	C	MCR		The project owner shall provide schedule updates in the Monthly Compliance Report.					Yes		Ongoing			
318	GEN	3	C	MCR	The project owner shall make payments to the CBO equivalent to the fees listed in Chapter 1, Section 107 and Table 1-A — Building Permit Fees, Appendix Chapter 33, Section 3310 and Table A-33-A — Grading Plan Review Fees, and Table A-33-B — Grading Permit Fees. If Yuba City, Sutter County or Colusa County has adjusted the CBC fees, for design review, plan check and construction inspection, the project owner shall pay the adjusted fees.	The project owner shall make the required payments to the CBO at the time of submittal of the plans, design calculations, specifications, or soil reports. The project owner shall send a copy of the CBO's receipt of payment to the CPM in the next Monthly Compliance Report indicating that the applicable fee has been paid.	MCR				Yes		Ongoing			
320	GEN	4	C		The RE shall have the authority to halt construction and to require changes or remedial work if the work does not conform to applicable requirements. If the RE or the delegated engineers are reassigned or replaced, the project owner shall submit the name, qualifications and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify the CPM of the CBO's approval of the new engineer	If the RE or the delegated engineer(s) are subsequently reassigned or replaced, the project owner has five days in which to submit the name, qualifications, and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify the CPM of the CBO's approval of the new engineer within five days of the approval.	During Construction	5			Yes		As Needed			

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324	GEN	6	C	MCR		Submit to CPM in Monthly Compliance Report the CBO's approval. Notify CPM of any replacement. If the special inspector is subsequently reassigned or replaced, the project owner has five days in which to submit the name and qualifications of the newly assigned special inspector to the CBO for approval. The project owner shall notify the CPM of the CBO's approval of the newly assigned inspector within five days of the approval.	Operation	5			Yes		Ongoing		
325	GEN	7	C	MCR	The project owner shall keep the CBO informed regarding the status of construction. If any discrepancy is discovered during construction, the project owner shall prepare and submit a non-conformance report (NCR) describing the nature of the discrepancy to the CBO. The NCRs shall reference this condition of certification, and applicable sections of the applicable edition of the CBC.	The project owner shall submit NCRs, as necessary, within five days, and shall submit a periodic construction progress report to the CBO according to the reporting frequency required by the CBO. A list of the NCRs for the reporting month shall also be included in the next Monthly Compliance Report.	As Needed	5			Yes		As Needed		

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331	GEO	2	C		(2) Within 90 days following completion of the final grading, the project owner shall submit copies of the Final Geologic Report required by Appendix Chapter 33, Section 3309.3, to the CPM and the CBO.	Complete final grading	90			Yes		As Needed			
334	CIV	2	C	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer or civil engineer experienced and knowledgeable in the practice of soils engineering identifies unforeseen adverse soil or geologic conditions. The project owner shall submit modified plans, specifications and calculations to the CBO based on these new conditions. The project owner shall obtain approval from the CBO before resuming earthwork and construction in the affected area. [Section 104.2.4 — Stop orders.]	The project owner shall notify the CPM, within five days, when earthwork and construction is stopped as a result of unforeseen adverse geologic/soil conditions. Within five days of the CBO's approval, the project owner shall provide to the CPM a copy of the CBO's approval to resume earthwork and construction in the affected areas.	As Needed	5		Yes		As Needed				
335	CIV	3	C	MCR	The project owner shall perform inspections in accordance with Section 108 — Inspections, Chapter 17, Section 1701.6 — Continuous and periodic special inspection and Appendix Chapter 33, Section 3317 — Grading inspection. All plant site grading operations shall be subject to inspection by the CBO and the CPM. If, in the course of inspection, it is discovered that the work is not being done in accordance with the approved plans, the discrepancies shall be Commission Final Decision Page 254 Sutter Power Project reported immediately to the resident engineer, the CBO, and the CPM. The project owner shall prepare a written report detailing all discrepancies and non-compliance items, and the proposed corrective action and send copies to the CBO and the CPM	Within five days of the discovery of any discrepancies, the resident engineer shall transmit to the CBO and the CPM a non-conformance report (NCR), and the proposed corrective action. Within five days of resolution of the NCR, the project owner shall submit the details of the corrective action to the CBO and the CPM. A list of NCRs for the reporting month shall also be included in the following Monthly Compliance Report.	As Needed	5		Yes		As Needed			
336	CIV	4	C	MCR	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities. [Section 109 — Certificate of Occupancy]	Within 30 days (or a lesser number of days mutually agreed to by the project owner and the CBO) of the completion of the erosion and sediment control mitigation and drainage facilities, the project owner shall submit to the CBO the responsible civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in accordance with the final approved combined grading plans, and that the facilities are adequate for their intended purposes. The project owner shall submit a copy of this report to the CPM in the next Monthly Compliance Report.	After erosion & sediment control mitigation and drainage facilities	30		Yes		Ongoing			

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1	STRUC	1	C		Prior to the start of any increment of construction, the project owner shall submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis. Designs, plans and drawings shall be those for: 1. major project structures; 2. major foundations, equipment supports and anchorages; 3. large field fabricated tanks; Commission Final Decision Page 255 Sutter Power Project	At least 30 days (or a lesser number of days mutually agreed to by the project owner and the CBO) prior to the start of any increment of construction, the project owner shall submit to the CBO, with a copy to the CPM, the responsible design engineer's signed statement that the final design plans, specifications and calculations conform with all of the requirements set forth in the Commission's Decision.	Prior to construction	30			Yes		Ongoing		
338	STRUC	1	C		1. Obtain agreement with the CBO on the list of those structures, components and major equipment items to undergo dynamic structural analysis; 2. Meet the pile design requirements of the 1995 CBC. Specifically, Section 1807 — General Requirements, Section 1808 — Specific Pile Requirements, and Section 1809 — Foundation Construction (in seismic zones 3 and 4.) 3. Obtain approval from the CBO for the final design plans, specifications, calculations, soils reports, and applicable quality control procedures. If there are conflicting requirements, the more stringent shall govern (i.e., highest loads, or lowest allowable stresses shall govern). All plans, calculations, and specifications for foundations that support structures shall be filed concurrently with the structure plans, calculations, and specifications, [Section 108.4 — Approval Required]; 4. Submit to the CBO the required number of copies of the structural plans, specifications, calculations, and other required documents of the designated major structures at least 90 days prior to the start of on-site fabrication and installation of each structure, equipment support, or foundation, [Section 106.4.2 — Retention of plans, Section 106.3.2 — Submittal documents.]; and 5. Ensure that the final plans, calculations, and specifications clearly reflect the inclusion of approved criteria, assumptions, and methods used to develop the design. The final designs, plans, calculations and specifications shall be signed and stamped by the responsible design engineer. [Section 106.3.4 — Architect or engineer of record.]	If the CBO discovers non-conformance with the stated requirements, the project owner shall resubmit the corrected plans to the CBO within 20 days of receipt of the nonconforming submittal, with a copy of the transmittal letter to the CPM. The project owner shall submit to the CPM a copy of a statement from the CBO that the proposed structural plans, specifications, and calculations have been approved and are in conformance with the requirements set forth in the applicable LORS.	As Needed	20			Yes		As Needed		
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		No.	SORT CODE	PERIODIC REPORTS	Description of Project Owner Responsibilities (Conditions of Certification)	Verification/Action/Submittal Required by Project Owner	Timeframe	Days	Date sent to CEC/CBO	Date of approval of action or submittal	Conditions Applicable to Grimes Pipeline Project?	Comments	Status	CEC Tracking Number	CEC Status
1	STRUC	2	C		The project owner shall submit to the CBO the required number of sets of the following: 1. Concrete cylinder strength test reports (including date of testing, date sample taken, design concrete strength, tested cylinder strength, age of test, type and size of sample, location and quantity of concrete placement from which sample was taken, and mix design designation and parameters); 2. Concrete pour sign-off sheets; 3. Bolt torque inspection reports (including location of test, date, bolt size, and recorded torques); 4. Field weld inspection reports (including type of weld, location of weld, inspection of non-destructive testing (NDT) procedure and results, welder qualifications, certifications, qualified procedure description or number [ref: AWS]; and 5. Reports covering other structure activities requiring special inspections shall be in accordance with Chapter 17, Section 1701 — Special Inspections, Section 1701.5 — Type of Work (requiring special inspection), Section 1702 — Structural Observation and Section 1703 — Nondestructive Testing.	If a discrepancy is discovered in any of the above data, the project owner shall, within five days, prepare and submit an NCR describing the nature of the discrepancies to the CBO, with a copy of the transmittal letter to the CPM. The NCR shall reference the condition(s) of certification and applicable CBC chapter and section. Within five days of resolution of the NCR, the project owner shall submit a copy of the corrective action to the CBO and the CPM. The project owner shall transmit a copy of the CBO's approval or disapproval of the corrective action to the CPM within 15 days. If disapproved, the project owner shall, within five days, advise the CPM of the reason for disapproval, and the revised corrective action to obtain CBO's approval.	As Needed	5			Yes NA #4 & #5	4. AWS ref does not apply. This should Ref 49 CFR Part 192 Gas pipeline code. 5. Reports covering other structure activities which come under the jurisdiction of the CBC as they apply to this project.	As Needed		
340	STRUC	3	C	MCR	The project owner shall submit to the CBO design changes to the final plans required by Chapter 1, Section 106.3.2 — Submittal documents, and 106.3.3 — Information on plans and specifications, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes, and shall give the CBO prior notice of the intended filing.	On a schedule suitable to the CBO, the project owner shall notify the CBO of the intended filing of design changes, and shall submit the required number of sets of revised drawings and the required number of copies of the other abovementioned documents to the CBO, with a copy of the transmittal letter to the CPM. The project owner shall notify the CPM, via the Monthly Compliance Report, when the CBO has approved the revised plans.	As Needed			Yes		As Needed			
341	MECH	1	C		Prior to the start of any increment of piping construction, the project owner shall submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system (exclude: domestic water, refrigeration systems, and small bore piping, i.e., piping and tubing with a diameter equal to or less than two and one-half inches). The submittal shall also include the applicable QA/QC procedures. The project owner shall design and install all piping, other than domestic water, refrigeration, and small bore piping to the applicable edition of the CBC. Upon completion of construction of any piping system, the project owner shall request the CBO's inspection approval of said construction. [Section 106.3.2 — Submittal documents, Section 108.3 — Inspection Requests.]	At least 30 days (or a lesser number of days mutually agreed to by the project owner and the CBO) prior to the start of any increment of piping construction, the project owner shall submit to the CBO for approval, with a copy of the transmittal letter to the CPM, the proposed final design plans, specifications, calculations and quality control procedures for that increment of construction of piping systems, including a copy of the signed and stamped engineer's certification of conformance with the Commission Decision.	Prior to start piping construction	30		Yes	Review Calpine Engineering Standards and Specifications 1/18/12	Ongoing			
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Grimes Pipeline Project Compliance Matrix

	A	B	C	D	E	F (97-AFC-02)	G	H	I	J	K	L	M	N	O	
		No.	SORT CODE	PERIODIC REPORTS	Description of Project Owner Responsibilities (Conditions of Certification)	Verification/Action/Submittal Required by Project Owner	Timeframe	Days	Date sent to CEC/CBO	Date of approval of action or submittal	Conditions Applicable to Grimes Pipeline Project?	Comments	Status	CEC Tracking Number	CEC Status	
1	MECH	1	C	MCR	The responsible mechanical engineer shall submit a signed and stamped statement to the CBO when: 1. The proposed final design plans, specifications, and calculations conform with all of the piping requirements set forth in the Commission Decision; and 2. All of the other piping systems, except domestic water, refrigeration systems, and small bore piping, have been designed, fabricated, and installed in accordance with all applicable ordinances, regulations, laws and industry standards, including, as applicable:-- American National Standards Institute (ANSI) B31.1 (Power Piping Code); -- ANSI B31.2 (Fuel Gas Piping Code); -- ANSI B31.3 as applicable (Chemical Plant and Petroleum Refinery Piping Code); -- ANSI B31.8 (Gas Transmission and Distribution Piping Code); and-- Specific City/County Code. The CBO may require the project owner, as necessary, to employ special inspectors to report directly to the CBO to monitor shop fabrication or equipment installation. [Section 104.2.2 — Deputies.]	The project owner shall transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly				Yes		Ongoing			

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