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January 11, 2018

Lisa Orsaba
Project Manager
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Monthly Report Summary #1 for the Mesa 500-kV Substation Project

Dear Ms. Orsaba,

This report provides a summary of the compliance monitoring activities that occurred during the period from **September 29 to October 31, 2017**, for the Mesa 500-kV Substation (Mesa Substation) Project in Los Angeles County, California. Compliance monitoring was performed to ensure that all project-related activities conducted by Southern California Edison (SCE) and their contractors are in compliance with the requirements of the Final Environmental Impact Report (Final EIR) for Mesa, as adopted by the California Public Utilities Commission (CPUC) on February 9, 2017.

The CPUC has issued the following Notice to Proceed (NTP) for the project to SCE:

- NTP #1 (September 27, 2017) – Vegetation removal and grading, waterline relocation, Operating Industries Incorporated (OII) well removal, and various line relocations (transmission, subtransmission, distribution, and telecommunications).

Onsite compliance monitoring by the Ecology and Environment, Inc. (E & E) compliance team during this reporting period focused on spot-checks of ongoing construction activities. Compliance Monitor Vince Semonsen visited the Mesa construction sites on October 2, 4, 10, 12, 16, and 24, 2017. Site inspection reports that summarize observed construction activities and compliance events and verify mitigation measures (MMs) and applicant proposed measures (APMs) were completed for the site visits. The reports are attached below (Attachment 1).

Overall, Mesa has maintained compliance with the Mitigation Monitoring, Compliance, and Reporting Program's (MMCRP) Compliance Plan. Communication between the CPUC/E & E compliance team and SCE has been regular and effective; the correspondence discussed and documented compliance events, upcoming compliance-related surveys and deliverables, and the construction schedule. Agency calls between CPUC/E & E and SCE, along with daily schedule updates and database notifications, provided additional compliance information and construction summaries. Furthermore, SCE's monthly compliance status report for October 2017 provided a compliance summary and included: a description of construction activities from September 29 to October 31, 2017; a detailed look-ahead construction schedule; a summary of compliance with project commitments (MMs/APMs) for biological resources, cultural and paleontological resources, the Storm Water Pollution Prevention Plan (SWPPP), noise, and the Worker Environmental Awareness Program (WEAP); non-compliance issues and resolutions; and public complaints and notifications.

Compliance Incidents

During the October 2017 reporting period, several compliance incidents occurred. Compliance incidents include:

- October 4, 2017: A Tier 2 crane was brought onsite prior to notifying the CPUC. MM AQ-1 requires any equipment that is not compliant with Tier 3 or 4 standards may be allowed onsite on a case-by-case basis after review of due diligence documentation by the CPUC. Due diligence documentation was procured but only provided to the CPUC on December 22, 2017.
- October 17, 2017: A Power Grade excavator tracked through vegetation to move a downed lattice tower prior to the required pre-construction sweep. The incident occurred at the Mesa Substation site in occupied California coastal gnatcatcher habitat. The area was surveyed after the incident and no resources were impacted. This incident conflicts with MM BR-1, which requires pre-construction surveys.
- October 29, 2017: Kiewit installed inadequate wildlife exclusion fencing around an excavation. There were several gaps under the silt fence that had been installed around the Kiewit jack-and-bore pit in Area 1K. No wildlife was impacted. This incident conflicts with MM BR-10, which requires that all steep-walled trenches or excavations are covered or completely fenced off at night to prevent wildlife from becoming entrapped.
- October 30, 2017: A concrete spill was reported by a biological monitor and was not cleaned up the next day. The spill had been reported to the wrong contractor. The correct contractor, Ninyo & Moore, cleaned up the spill on October 31, 2017. No sensitive resources were impacted. This incident conflicts with MM HY-1, which requires hazardous spills to be cleaned up immediately, and also conflicts with the Streambed Alteration Agreement, Avoidance and Minimization Measure 2.40, which requires the clean-up of all spills to begin immediately.

Additionally, ten minor spills/leaks were self-reported by SCE. These incidents were dealt with in a timely manner with the exception of the concrete spill on October 30, 2017 described above.

Public Concerns

There were no public concerns during October 2017.

Minor Approvals

During October 2017, one Minor Project Change (MPC) and one amendment to NTP-1 were approved (see Table 1).

Table 1: Minor Approvals for October 2017

Description	Approval Date
MPC-01 included temporary use of an existing unpaved access road from Greenwood Avenue	October 10, 2017
NTP-1 Amendment 1 – increased vegetation removal approval area and increased temporary wood poles for subtransmission relocation	October 18, 2017

Sincerely,

Jenny Vick
Project Manager, Ecology and Environment, Inc.

cc:
Lori Rangel, SCE
Don Dow, SCE

ATTACHMENT 1

CPUC Site Inspection Report

October 2, 4, 10, 12, 16, and 24, 2017

Mesa 500-kV Substation Project
CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	**Date:**	October 2, 2017
Project Proponent:	Southern California Edison	**Report #:**	VS001
Lead Agency:	California Public Utilities Commission	**Monitor(s):**	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	**AM/PM Weather:**	Partly cloudy and warm with a slight breeze
E & E CM:	Jenny Vick	**Start/End Time:**	1030 to 1230
Project NTP(s):	NTP-1		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?			X
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?			X
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?			X
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads?	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?			X
Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?			X

Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.			X
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?	X		
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?			X
Are procedures in place to prevent spills and accidental releases?			X
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

Mesa 500-kV Substation (Mesa Substation)

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I was onsite at the Mesa Substation at 1045 and participated in a tailboard meeting with a number of Southern California Edison (SCE) personnel (Photo 1). All Mesa Substation Project personnel appeared to have gone through the Worker Environmental Awareness Program (WEAP) training (MM BR-5).

At the Mesa Substation entrance, a small skip loader was working on preparation of the entry/exit best management practices (BMPs) (Photo 2) (MM AES-2). The old asphalt was being removed and stockpiled on some plastic sheeting.

Several water trucks were onsite at a water tower where they had been filled (APM AIR-01). A motorgrader was conducting some minor grading on the road to and from the water tower (Photo 3).

The initial clearing and grubbing had begun in Area 1B of the Mesa Substation (Photo 4). Biological monitor Eric Willems (ICF) was onsite observing the activity (APM BIO-03, MM BR-9). Only one bulldozer was clearing and grubbing. I introduced myself to Eric Willems and asked if he had seen any wildlife, yet. He stated that he had seen a number of rabbits, squirrels, and fence lizards, but no snakes or sensitive species. Eric Willems participated in a number of the pre-construction surveys (MM BR-1) and will be the primary biological monitor for the Mesa Substation Project. A second ICF biological monitor Matt Daniele was also onsite.

A number of large pieces of equipment were onsite and parked within the construction area (Photo 5). Drip pans had been placed under each piece of equipment but were not under portions of the engine that drip oil (Photo 6) (MM HZ-3). I noted several slow leaks of oil and/or hydraulic fluid coming from the equipment and dripping onto the gravel substrate. Later in the day, I attended another tailboard meeting and mentioned the inadequate placement and size of the drip pans. I briefly spoke with the SCE Environmental Project Manager Lori Rangel about the drip pans and the overall status of the Mesa Substation Project. I also spoke with Lucy Cortez-Johnson the Storm Water Pollution Prevention Plan (SWPPP) consultant (CASC Engineering and Consulting, Inc. [CASC]) and Klaus Wojak a SCE inspector, both of whom I had worked with on the Aliso Canyon Natural Substation Project.

Before concluding my site visit, I watched an instructional video covering the safety training for the Mesa Substation Project.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

See the mitigation measures (MMs) listed in the observed activities descriptions.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Follow up on the size and placement of drip pans under equipment.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

Recommendation that they use larger drip pans under equipment.

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

☐ New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.

☐ Non-Compliance Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.

☐ Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

Date	Non-Compliance Issue and Resolution	Relevant Mitigation Measure	NC Report #
	None		

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

None

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-2-17	Parking Area		Photo 1 – Participation in the tailboard meeting before entering the site.
10-2-17	Entry/Exit Roadway		Photo 2 – Prep work for the installation of an entry/exit BMP. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-2-17	Mesa Substation		Photo 3 – Minor grading on the access road to the water tower. Photo facing west.
10-2-17	Mesa Substation (Area 1B)		Photo 4 – Initial clearing and grubbing within Area 1B. Photo facing west.
10-2-17	Mesa Substation		Photo 5 – Equipment staged onsite. Photo facing northeast.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-2-17	Mesa Substation construction area		Photo 6 – Drip pan underneath equipment. Note that the pan is not located under the drips.

Mesa 500-kV Substation Project
CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	**Date:**	October 4, 2017
Project Proponent:	Southern California Edison	**Report #:**	VS002
Lead Agency:	California Public Utilities Commission	**Monitor(s):**	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	**AM/PM Weather:**	Clear, warm, and calm
E & E CM:	Jenny Vick	**Start/End Time:**	0700 to 1130
Project NTP(s):	NTP-1		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?			X
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?			X
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads?	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?		X	
Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?			X

Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

Mesa 500-kV Substation (Mesa Substation)

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I was onsite at 0700 to participate in the morning tailboard meeting with a number of Southern California Edison (SCE) and construction personnel (Photo 1). All Mesa Substation Project personnel appear to have gone through the Worker Environmental Awareness (WEAP) training (MM BR-5).

The entry/exit gravel and rumble plates had been installed at the Mesa Substation entry point (Photo 2) (MM AES-2).

After the tailboard meeting, ICF biological monitors Eric Willems and Matt Daniele walked the site and cleared the area before construction began (MM BR-1). I walked with them to look for birds and other wildlife. I saw a family of mockingbirds with a somewhat newly fledged juvenile; this was noteworthy because it indicates that the pair had been on a nest about three weeks ago. Eric Willems said that most of the wildlife they observed during clearing work had moved away from the equipment; none were killed or captured and relocated.

Large piles of vegetation had been stockpiled onsite from the previous days' clearing activities (Photo 3). The western portion of the old drainage channel had been cleared of vegetation (Photo 4).

A crew was removing the old chain link fencing and had removed some of the concrete encased posts the day before. A number of the post holes remained and were not filled and were uncovered; they appeared to be approximately 12 inches in diameter and up to 2.5 feet deep (Photo 5). These holes can be pitfall traps for wildlife and safety hazards for crew members and project staff; therefore, the holes should be backfilled or covered at the end of each work day (MM BR-10). I mentioned the holes to the biological monitor Matt Daniele (ICF) and Power Grade Environmental Contact Craig Pernot; Matt Daniele told me later that the crew would backfill these holes before the end of the day.

I walked to the equipment parked onsite and noted that additional and larger drip pans (kiddie pools) had been brought onsite and placed under the equipment (Photo 6) (MM HZ-3).

The initial clearing and grubbing was continuing, with an excavator working in the drainage (Photo 7) and a bulldozer working in the flats (Photo 8). Biological monitor Eric Willems (ICF) was onsite and observing the clearing and grubbing activity (APM BIO-03, MM BR-9).

Several water trucks were onsite to provide dust control prior to and during the clearing work (Photo 9) (APM AIR-01, MM HY-1).

SCE Environmental Project Manager Lori Rangel asked if I could look at an existing road off of Greenwood Avenue. SCE was eager to get this road approved as a second access road for the SCE transmission crew. We drove to the location and discussed the environmental issues associated with using the road for access. I did not anticipate any grading or vegetation removal (Photo 10) and discussed my observations with E & E Deputy Compliance Manager Ilja Nieuwenhuizen.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

See the mitigation measures (MMs) listed in the observed activities descriptions.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Follow up on the backfilling of fence post holes.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

☐ New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.

☐ Non-Compliance Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.

☐ Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.

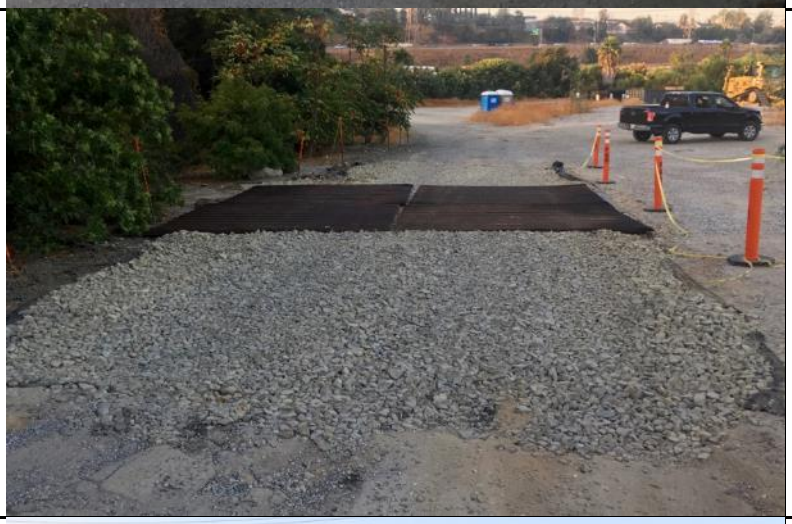
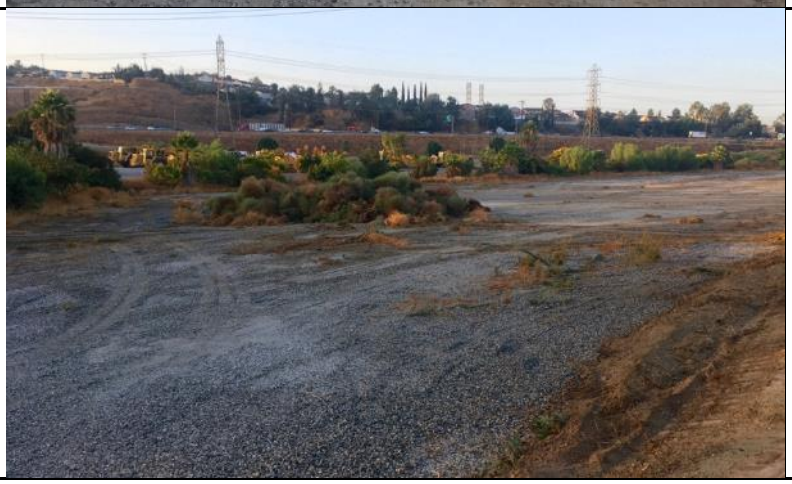
☐ Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.

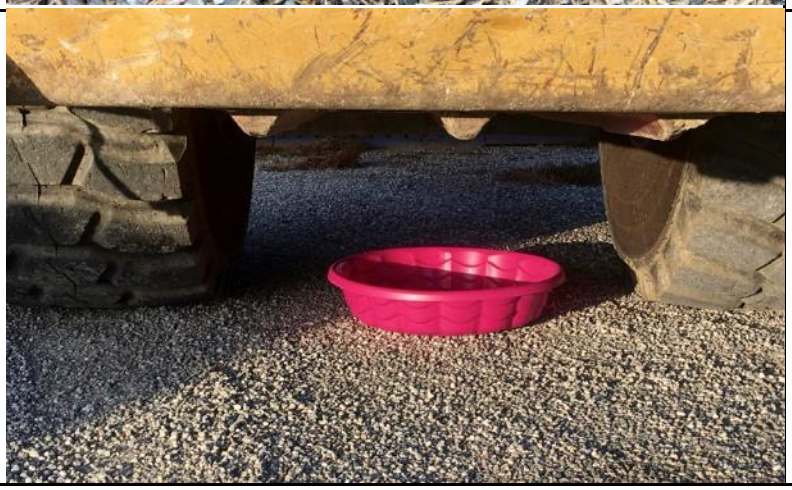
☐ Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

Date	Non-Compliance Issue and Resolution	Relevant Mitigation Measure	NC Report #
	None		

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

None

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-04-17	Parking Area		Photo 1 – The 0700 tailboard meeting for all project personnel.
10-04-17	Entry/Exit Roadway		Photo 2 – The entry/exit BMP has been installed with gravel and rumble plates.
10-04-17	Mesa Substation		Photo 3 – Stockpiled vegetation onsite. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-04-17	Mesa Substation		Photo 4 – Vegetation removed from the drainage channel. Photo facing west.
10-04-17	Mesa Substation		Photo 5 – One of the many post holes left after the fence removal.
10-04-17	Mesa Substation		Photo 6 – New kiddie pool drip pans used in addition to the small black plastic drip pans.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-04-17	Mesa Substation		Photo 7 – An excavator clearing vegetation in the drainage channel. Photo facing east.
10-04-17	Mesa Substation		Photo 8 – Clearing and grubbing taking place near the northwest corner of the Mesa Substation site. Photo facing north.
10-04-17	Mesa Substation		Photo 9 – Water truck providing dust control prior to equipment conducting vegetation removal. Photo facing south.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-04-17	Mesa Substation		Photo 10 – The existing road off of Greenwood Avenue that is proposed for an additional access road for the Mesa Substation Project. Photo taken from Greenwood Avenue facing west.

Mesa 500-kV Substation Project
CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	**Date:**	October 10, 2017
Project Proponent:	Southern California Edison	**Report #:**	VS003
Lead Agency:	California Public Utilities Commission	**Monitor(s):**	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	**AM/PM Weather:**	Clear, cool, and calm early in the day; afternoon temperatures are expected in the high 80s
E & E CM:	Jenny Vick	**Start/End Time:**	0630 to 1100
Project NTP(s):	NTP-1		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?			X
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?			X
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?		X	
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads?	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?	X		

Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?			X
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

Mesa 500-kV Substation (Mesa Substation)

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived onsite at 0630 to participate in the morning tailboard meeting with a number of Southern California Edison (SCE) and construction personnel. All Mesa Substation Project personnel appeared to have gone through the Worker Environmental Awareness Program (WEAP) training (MM BR-5).

Several biological monitors were at the tailboard meeting (APM BIO-03, MM BR-9) along with two paleontological monitors (MM CR-4). A total of four biological monitors were onsite.

I met with the two new ICF biological monitors Ben Smith and Jenni Snibbe who were clearing the site prior to the start of construction (MM BR-1). Jenni Snibbe said she saw a pair of coyotes exiting the site as she entered, but she did not observe anything else of note within the newly grubbed areas. Bird life is fairly diverse within the remaining vegetation. I observed a number of species including a flock of bush tits, several white-crowned sparrows, house finches, California towhees, mourning doves, and one Cooper's hawk.

A number of large piles of vegetation were stockpiled throughout the site (Photo 1). Much of the vegetation had been removed from the western portion of the Mesa Substation site (Photo 2). All of the vegetation within the drainage channel running east to west through the construction site has been removed (Photo 3). The stockpiled vegetative material was being mulched onsite (Photo 4).

At the west end of the Mesa Substation site, within the cleared drainage channel, there is a culvert where storm water runoff would exit the site. Any storm water runoff from the cleared Mesa Substation site and the newly excavated drainage channel would enter this culvert. There was only a small stack of gravel bags within the mouth of the culvert (Photo 5). I planned to speak with Storm Water Pollution Prevention Plan (SWPPP) inspector Lucy Cortez-Johnson (CASC Engineering and Consulting, Inc. [CASC]) about sediment containment at this location and throughout the Mesa Substation site.

Excavation within Areas 1B and 1BB using bulldozers and scrapers had begun (Photo 6). This activity was being overseen by an onsite paleontological monitor, Bobby Ebelhar (Paleo Solutions). An excavator was also being used to remove all of the concrete and debris within the drainage channel (Photo 7); paleontological monitor Hannah Cohen (Paleo Solutions) and biological monitor Ben Smith (ICF) were observing this work. They said that nothing of interest had been seen coming out of the channel.

Biological monitor Matt Daniele (ICF) is a United States Fish and Wildlife Service (USFWS) approved biologist for coastal California gnatcatchers and is overseeing the MarketPlace work in the southeastern portion of the Mesa Substation site (APM BIO-04). An excavator was being used to remove vegetation and riprap downstream of an existing culvert (Photo 8). The coastal California gnatcatchers have nested in this area and Matt Daniele said he sometimes sees these birds within the surrounding vegetation.

Some vegetation removal was scheduled for an area within the Transmission Corridor north of Potrero Grande Drive and biological monitor Eric Willems (ICF) was onsite waiting for the work to begin; however, he could not confirm that the removal work would begin on that day.

A survey crew is onsite, and water trucks were onsite at all of the various clearing and excavation operations to provide dust control prior to and during the work (APM AIR-01, MM HY-1).

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

See the mitigation measures (MMs) listed in the observed activities descriptions.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Follow-up with SWPPP inspector Lucy Cortez-Johnson (CASC) about sediment containment throughout the site.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

None

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

☐ New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.

☐ Non-Compliance Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.

☐ Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

Date	Non-Compliance Issue and Resolution	Relevant Mitigation Measure	NC Report #
	None		

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:
None

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-10-17	Mesa Substation		Photo 1 – Cleared vegetation stockpiled onsite. Photo facing southwest.
10-10-17	Mesa Substation		Photo 2 – Overview of the construction site; much of the vegetation has been cleared. Photo facing northeast.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-10-17	Mesa Substation		Photo 3 – The drainage channel within the construction site; all of the vegetation has now been removed from this channel. Photo facing south.
10-10-17	Mesa Substation		Photo 4 – All the cleared vegetation is being ground up onsite. Photo facing south.
10-10-17	Mesa Substation		Photo 5 – A culvert that drains the construction site. Photo facing west.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-10-17	Mesa Substation		Photo 6 – Excavation has begun along the southern edge of the Mesa Substation site using bulldozers and scrapers. Photo facing east.
10-10-17	Mesa Substation		Photo 7 – An excavator is removing concrete and debris from the drainage channel. Photo facing north.
10-10-17	Mesa Substation		Photo 8 – Vegetation clearing, excavation, and removal of riprap near the drainage culvert entering the Mesa Substation site from under Greenwood Avenue Photo facing east.

Mesa 500-kV Substation Project
CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	**Date:**	October 12, 2017
Project Proponent:	Southern California Edison	**Report #:**	VS004
Lead Agency:	California Public Utilities Commission	**Monitor(s):**	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	**AM/PM Weather:**	Clear, calm, and warm
E & E CM:	Jenny Vick	**Start/End Time:**	1130 to 1430
Project NTP(s):	NTP-1		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?			X
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?			X
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads?	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?	X		

Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?			X
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

The Mesa 500-kV Substation (Mesa Substation) and the Transmission Corridor north of Potrero Grande Drive.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived onsite at 1130 and met with Storm Water Pollution Prevention Plan (SWPPP) inspector Lucy Cortez-Johnson (CASC Engineering and Consulting, Inc. [CASC]). I asked her about storm water runoff issues, knowing that large quantities of the Mesa Substation site had been excavated and all of the runoff would drain toward the culvert at the western end of the site. She said the weather conditions were being monitored and best management practices (BMPs) would be installed two days ahead of any predicted storms (MM HY-1). There is a plan to create a detention basin ahead of the culvert so that rainwater runoff will not exit the site (MM HY-3).

I attended the "after lunch" tailgate meeting and then entered the Mesa Substation site.

My first stop was the Kiewit jack-and-bore site near the northern edge of the Mesa Substation site. The excavation work was nearly complete and the crew will be working on the other side of Potrero Grande Drive to excavate the exit hole (Photo 1). Paleontological monitor Hannah Cohen (Paleo Solutions) was spot-checking the excavation work around the site (MM CR-4).

At the drainage culvert, an earthen road had been built across the drainage, just upstream of the culvert entrance (Photo 2). This is much better BMP than the gravel bag wall noted in a previous site visit; however, this BMP but will only hold back a small amount of water. Vegetation had been cleared from the entire drainage channel, and- rock and concrete debris had also been removed from the lower half of the channel (Photo 3).

Within Areas 1B and 1BB earthwork continued with the use of bulldozers and scrapers (Photo 4). This activity was being overseen by the onsite paleontological monitor, Hannah Cohen (Paleo Solutions).

At the time of my site visit, the SCE staging area had been graveled and construction materials were stockpiled (Photo 5).

I walked by the Restricted Use Area located along the southeastern edge of the Mesa Substation site; this area supports coastal sage scrub (CSS) vegetation and had been cordoned off with orange silt fencing (APM BIO-01, MM BR-2) (Photo 6). Some portions of the area were lined with black silt fencing, but some of this fencing was in need of repair (Photo 7). It was unclear if the black silt fencing delineated any of the Restricted Use Area.

Market Place crews were continuing work to clear vegetation and riprap from the drainage area within the southeastern portion of the Mesa Substation site (Photos 8, 9, and 10). All of the rock and vegetation had been removed and crews were reshaping the drainage channel. United States Fish and Wildlife Service (USFWS) approved biological monitor Matt Daniele (ICF) was overseeing this work because coastal California gnatcatchers were in the area (APM BIO-04, APM BIO-03, MM BR-9).

Biological monitor Jenni Snibbe (ICF) was also onsite and stated that she observed nothing that was noteworthy as the crews cleared the site during the morning (MM BR-1).

Stockpiled vegetative material continued to be mulched onsite (Photo 11), and excavation work had begun within the Transmission Corridor north of Potrero Grande Drive (Photo 12). Biological monitor Eric Willems (ICF) and paleontological monitor Hannah Cohen (Paleo Solutions) were onsite.

Water trucks were onsite for all clearing and excavation operations to provide dust control prior to and during the work (APM AIR-01, MM HY-1).

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have gone through the Worker Environmental Awareness Program (WEAP) training (MM BR-5). See the mitigation measures (MMs) listed in the observed activities descriptions.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Check on the silt fencing around the Restricted Use Area

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

None

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

☐ New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.

☐ Non-Compliance Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.

☐ Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.

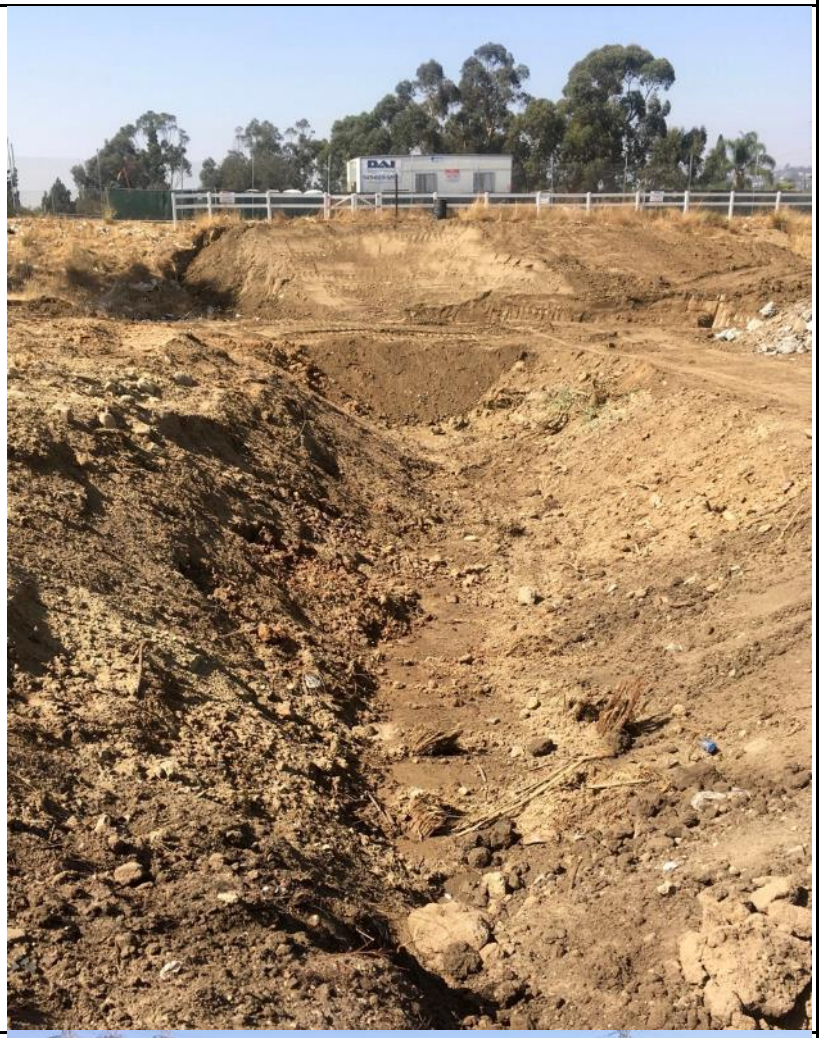
☐ Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

Date	Non-Compliance Issue and Resolution	Relevant Mitigation Measure	NC Report #
	None		

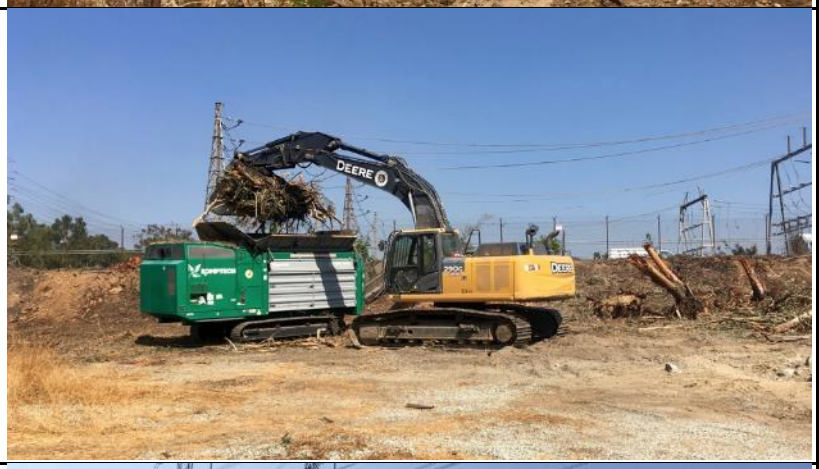
PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:
None

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	**Photo**	**Description**
10-12-17	Mesa Substation		Photo 1 – Excavation work at the Kiewit jack-and-bore site. Photo facing west.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	**Photo**	**Description**
10-12-17	Mesa Substation		Photo 2 – Drainage channel at the south end of the Mesa Substation site. Note the channel has been plugged with a road crossing. Photo facing west.
10-12-17	Mesa Substation		Photo 3 – Cleaned out drainage channel. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	**Photo**	**Description**
10-12-17	Mesa Substation		Photo 4 – Excavation continues along the southern edge of the Mesa Substation site using bulldozers and scrapers. Photo facing east.
10-12-17	Mesa Substation		Photo 5 – SCE transmission laydown yard; some materials have been brought in.
10-12-17	Mesa Substation		Photo 6 – Fencing around CSS sensitive habitat along the southeastern portion of the Mesa Substation site. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	**Photo**	**Description**
10-12-17	Mesa Substation		Photo 7 – Some of the exclusion fencing needs repair and replacement. Photo facing east.
10-12-17	Mesa Substation		Photo 8 – Equipment and material storage for work within the drainage channel near Greenwood Avenue. Photo facing north.
10-12-17	Mesa Substation		Photo 9 – A cleared area downstream of the drainage culverts under Greenwood Avenue. Photo facing east

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	**Photo**	**Description**
10-12-17	Mesa Substation		Photo 10 – Work within the drainage channel just downstream of the Greenwood Avenue culverts. Photo facing southwest.
10-12-17	Mesa Substation		Photo 11 – Mulching vegetation onsite.
10-12-17	Transmission Corridor		Photo 12 – Excavation work north of Potrero Grande Drive for the transmission towers. Photo facing west.

Mesa 500-kV Substation Project
CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	**Date:**	October 16, 2017
Project Proponent:	Southern California Edison	**Report #:**	VS005
Lead Agency:	California Public Utilities Commission	**Monitor(s):**	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	**AM/PM Weather:**	Scatter clouds, slight breeze and hot
E & E CM:	Jenny Vick	**Start/End Time:**	1100 to 1330
Project NTP(s):	NTP-1		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?	X		
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?		X	
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads?	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?	X		

Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?			X
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

The Mesa 500-kV Substation (Mesa Substation) and the Transmission Corridor north of Potrero Grande Drive.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived onsite at 1100 and checked the Kiewit jack-and-bore site within the Mesa Substation site. The excavation had been completed and materials were being delivered (Photo 1).

Earthwork had begun in Area 1BB closer to the western end of the Mesa Substation site. Two scrapers, a motorgrader, a dozer, and a water truck were working in this area (Photo 2). Paleontological monitor Hannah Cohen (Paleo Solutions) was spot-checking this excavation work (MM CR-4).

At the outflow culvert, a line of sediment control material had been installed on the slope just north of the culvert (Photo 3). This best management practice (BMP) was replacing straw wattles and was expected to work well (MM HY-1).

Within the same western portion of Area 1BB, a small crew was breaking up old concrete and removing the rebar and dirt so the concrete would be ready for recycling (Photo 4).

Soil from the excavation activities north of Potrero Grande Drive was being stockpiled onsite (Photo 5).

Work within the SCE staging area consisted of a crew removing the old wire from the existing towers and rewinding it back onto spools. According to SCE inspector Ray Spaulding, the old copper wire was going to be recycled (Photo 6).

Vegetation clearing and mulching continued along the south side of the existing Mesa Substation—Areas 1J and 2A (Photos 7, 8, and 11). Full-time biological monitoring of this activity was being conducted by the monitoring team of Jenni Snibbe (ICF), Kristen Kleinfelter, (ICF), and Marissa Maggio (ICF) (APM BIO-04, APM BIO-03, MM BR-1, MM BR-9).

United States Fish and Wildlife Service (USFWS) approved biological monitor Matt Daniele (ICF) continued to oversee the Market Place work within the drainage channel entering the Mesa Substation site at its far southeastern portion. All of the vegetation and riprap had been removed (Photos 9 and 10).

Excavation work continued within the Transmission Corridor north of Potrero Grande Drive (Photo 12) This area was spot-checked by the onsite monitors. Dump trucks were hauling excess soil across to the Mesa Substation site; the loads were tarped.

Water trucks were onsite during all clearing and excavation operations to provide dust control prior to and during the work (APM AIR-01, MM HY-1).

Clearing and grubbing had begun north of Potrero Grande Drive for the Kiewit jack-and-bore operation (Photo 13), and I saw biological monitor Eric Willems (ICF) at this location.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have gone through the Worker Environmental Awareness Program (WEAP) training (MM BR-5). See the mitigation measures (MMs) listed in the observed activities descriptions.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Check on the effectiveness of the BMPs that replaced the straw wattle.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

There were numerous observations of fox and coyote scat throughout the Mesa Substation site.

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

☐ New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.

☐ Non-Compliance Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.

☐ Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

Date	Non-Compliance Issue and Resolution	Relevant Mitigation Measure	NC Report #
	None		

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

None

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-16-17	Mesa Substation		Photo 1 – Kiewit jack-and-bore site. Photo facing west.
10-16-17	Mesa Substation		Photo 2 – Earth moving activities in Area 1BB of the Mesa Substation. Photo facing west.
10-16-17	Mesa Substation		Photo 3 – Sediment control BMPs are now being installed throughout the Mesa Substation site. This plastic material is staked and is being used instead of straw wattles.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-16-17	Mesa Substation		Photo 4 – Breaking up concrete and removing rebar and excess dirt. Photo facing north.
10-16-17	Mesa Substation		Photo 5 – Soil stockpiled onsite. Photo facing west.
10-16-17	Mesa Substation		Photo 6 – SCE crews are taking down the old copper wire and rewinding it onto spools. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-16-17	Mesa Substation		Photo 7 – Vegetation clearing. Photo facing east.
10-16-17	Mesa Substation		Photo 8 – Equipment and material storage for work within the drainage channel near Greenwood Avenue. Photo facing north.
10-16-17	Mesa Substation		Photo 9 – Cleared area downstream of the drainage culverts under Greenwood Avenue. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-16-17	Mesa Substation		Photo 10 – Work within the drainage channel just downstream of the Greenwood Avenue culverts. Photo facing southwest.
10-16-17	Mesa Substation		Photo 11 – Vegetation clearing. Photo facing southwest.
10-16-17	Transmission Corridor		Photo 12 – Excavation work north of Potrero Grande Drive for the transmission towers. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10-16-17	Kiewit jack-and-bore Work North of Potrero Grande Drive		Photo 13 – Clearing and grubbing work. Photo facing west.

Mesa 500–kV Substation Project
CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	**Date:**	October 24, 2017
Project Proponent:	Southern California Edison	**Report #:**	VS006
Lead Agency:	California Public Utilities Commission	**Monitor(s):**	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	**AM/PM Weather:**	Cool and clear in the morning with hot temperatures expected later in the day
E & E CM:	Jenny Vick	**Start/End Time:**	0630 to 1000
Project NTP(s):	NTP-1, NTP-2		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?			X
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?	X		
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?		X	
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads?		X	
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		

Are excavations and trenches covered at the end of the day?	X		
Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?			X
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?			X
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

The Mesa 500-kV Substation (Mesa Substation) and the Transmission Corridor north of Potrero Grande Drive.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I was onsite for the 0630 tailboard meeting. A focus of the tailboard was the projected heat wave, with temperatures expected to reach triple digits. Biological and paleontological monitors were at the tailboard meeting. After the meeting, the biological monitors headed out to "clear the site" (APM BIO-03, MM BR 1, MM BR-9).

Upon walking into the Mesa Substation site, I noted that one portion of the drainage channel had been cleared of all vegetation and debris (Photo 1).

I checked the Kiewit jack-and-bore site within the Mesa Substation site where crews continued to prepare the area for the boring operation (Photo 2). The area around the jack-and-bore operation was quite dusty and a tall spoil stockpile needed some soil stabilization measures (Photo 3). Since this was early in the morning, it was obvious that no dust suppression had been conducted at the end of the previous day. I discussed the need for some "end of the day" dust suppression with the Mesa Project Coordinator Pete Lubich (ULM Services, Inc. [ULM}), since they are responsible for dust control outside of working hours. Later in the day, Pete Lubich said he had passed on the recommendation to the contractors (APM AIR-01, MM HY-1).

Excavation continued within the western portion of the Mesa Substation site; this will be the detention basin (MM HY-3, MM HY-4). Numerous pieces of equipment, including scrapers, a motorgrader, a bulldozer, and a water truck, were being utilized in this area (Photo 4). The scrapers cannot hold the 15 mile per hour (mph) speed limit on unpaved roads; this issue was brought up early in the project and is now accepted. Paleontological monitor Bobby Ebelhar (Paleo Solutions) was spot-checking this excavation work (MM CR-4).

Tower foundations were being drilled and poured (Photo 5). A concrete spill was noted (Photo 6). I spoke to the foundation crew foreman who said that it was an accident and would be cleaned up (MM HY-1). There was no designated concrete washout area. At another tower location, crews had drilled the hole the previous day and were getting ready to set the cage (Photo 7). I asked the same foreman if the hole had been left open and he explained that they seal the holes by leaving the drill bit in the hole and then adding gravel bags around the edges (MM BR-10).

A piece of equipment has been brought in to grind up the old concrete and rocky debris excavated from the Mesa Substation site (Photo 8). This material was being used to backfill the cleaned out drainage channel (Photo 10).

Approximately 25 construction vehicles were parked onsite each night, and each had a drip pan (Photo 9).

Temporary wood poles were being installed along the southern edge of the Mesa Substation site and some of the old towers were being removed (Photos 11 and 12).

Work was ongoing on the Market Place drainage channel entering the Mesa Substation site at its far southeastern portion (Photo 13). This activity was being monitored by United States Fish and Wildlife Service (USFWS) approved biological monitor Matt Daniele (ICF) who explained the staking of the Environmentally Sensitive Area (ESA) and the old silt fencing (APM BIO-04, MM BR-2). He also said the coastal California gnatcatchers were still present, though I did not see any.

I met with biological monitor Ben Smith (ICF) who was spot-checking various sites within the Mesa Substation site.

At the Kiewit jack-and-bore site exit hole area north of Potrero Grande Drive, an excavator was removing soil and placing it in dump trucks to be transported across the street to the main area of the Mesa Substation (Photo 14). A water truck was onsite

and the trucks were tarped when transporting soil. Rumble plates were in place and several Kiewit crew members were keeping the street clear of soil.

Other activities north of Potrero Grande Drive included preparation work for the installation of a new tower (Photo 15) and the installation of a laydown yard under the transmission lines (Photo 16).

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have gone through the Worker Environmental Awareness Program (WEAP) training (MM BR-5). See the mitigation measures (MMs) listed in the observed activities descriptions.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Dust control is needed at the end of each day and there are a number of soil piles that need stabilization measures.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

I discussed the dust control issue with Mesa Project Coordinator Pete Lubich (ULM) and recommended watering down the site at the end of each day.

The scrapers travel at speeds that are sometimes greater than 15 mph (the speed limit); however, this has been discussed and accepted since the beginning of the project.

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

☐ New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.

☐ Non-Compliance Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.

☐ Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.

☐ Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.

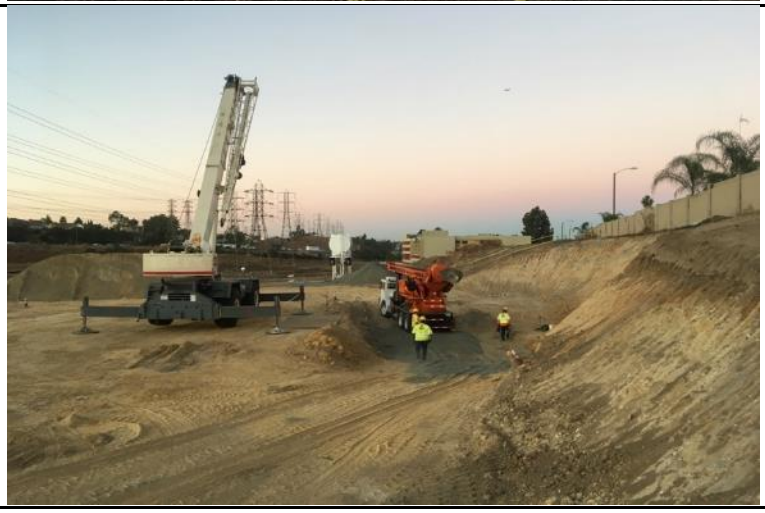
☐ Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

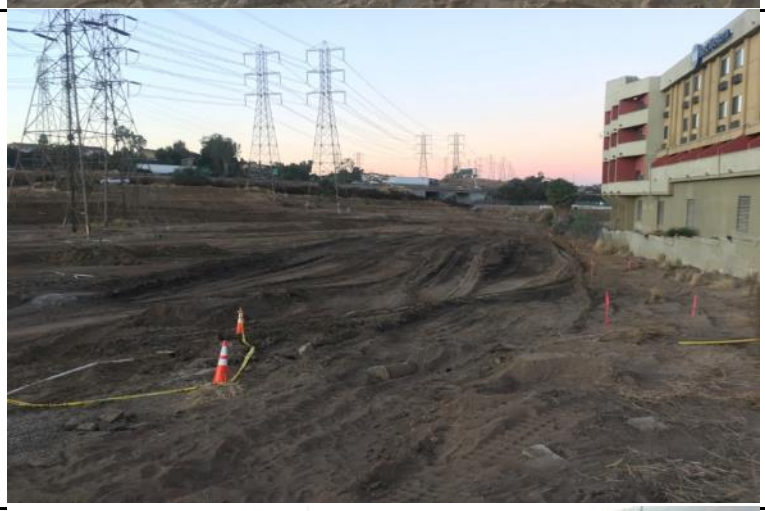
Date	Non-Compliance Issue and Resolution	Relevant Mitigation Measure	NC Report #
	None		

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

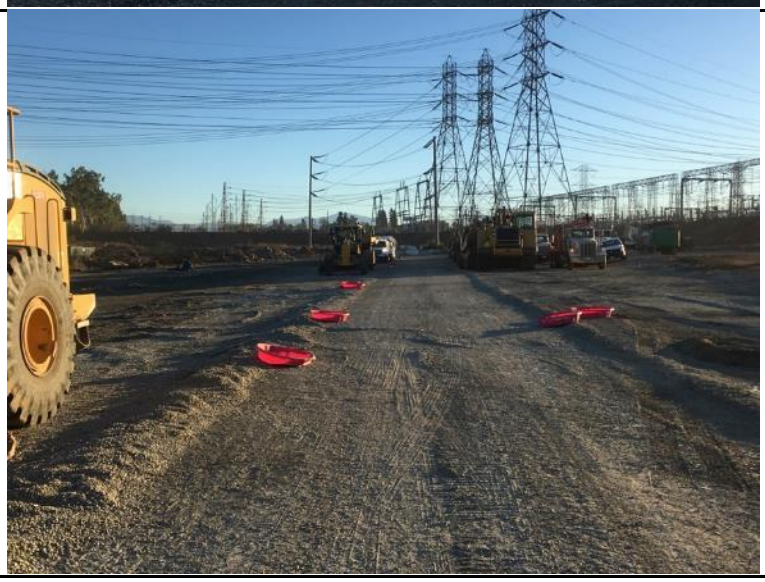
None

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/24/17	Mesa Substation		Photo 1 – The area along the old drainage near the project entrance is being cleared of vegetation. Photo facing southwest.
10/24/17	Mesa Substation		Photo 2 – Kiewit boring operation site preparation. Photo facing west.

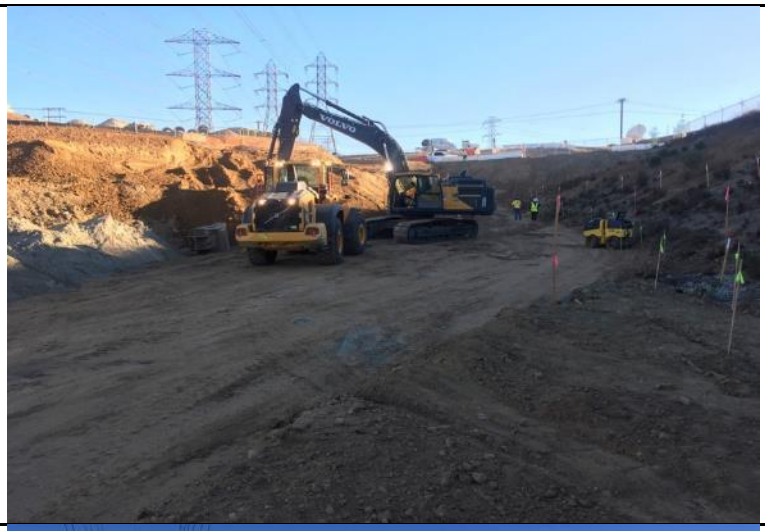
REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 3 – Soil stockpile near the Kiewit boring site. Photo facing south.
10/24/17	Mesa Substation		Photo 4 – Earthwork being conducted near the hotel at the western end of the Mesa Substation site. Photo facing west.
10/24/17	Mesa Substation		Photo 5 – New pole foundations. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 6 – Concrete washout spillage. Photo facing north.
10/24/17	Mesa Substation		Photo 7 – Tubular steel pole (TSP) foundation cage with an open hole.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 8 – Grinding of concrete and rocky debris. Photo facing north.
10/24/17	Mesa Substation		Photo 9 – Equipment parking area with kiddie pool drip pans.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 10 – Ground up rock/concrete being used to backfill the old drainage. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 11 – Temporary wooden poles installed. Photo facing west.
10/24/17	Mesa Substation		Photo 12 – Old lattice work towers being removed.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 13 – Market Place drainage excavation work. Photo facing east.
10/24/17	Mesa Substation		Photo 14 –Exit hole of jack-and-bore pit north of Potrero Grande Drive. Photo facing west.
10/24/17	Mesa Substation		Photo 15 – Transmission Corridor grading in the area north of Potrero Grande Drive. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	**Location**	**Photo**	**Description**
10/24/17	Mesa Substation		Photo 16 – Staging area within the Transmission Corridor north of Potrero Grande Drive. Photo facing east.