



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

August 7, 2017

Mr. Hazem Gabr
Southern California Edison Company
Gateway Business Center
6040A Irwindale Avenue
Irwindale, CA 91702

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED
No. 7016 0750 0000 8035 3605

Dear Mr. Gabr:

RE: CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER
FOR THE MESA 500 KILOVOLTS SUBSTATION (4WQC40116019)

Enclosed please find a CLEAN WATER ACT SECTION 401 WATER QUALITY
CERTIFICATION AND ORDER, authorized by Los Angeles Regional Water Quality Control
Board Executive Officer, Samuel Unger. This Order is issued to Hazem Gabr, Southern
California Edison Company for MESA 500 KILOVOLTS SUBSTATION (Project). Attachments A
through C of the Enclosure are also part of the Order.

This Order is issued in response to an application submitted by Hazem Gabr for proposed
Project discharges to waters of the state, to ensure that the water quality standards for all
waters of the state impacted by the Project are met. You may proceed with your Project
according to the terms and conditions of the enclosed Order.

If you require further assistance, please contact Valerie CarrilloZara by phone at (213) 576-6759
or by email at Valerie.CarrilloZara@waterboards.ca.gov. You may also contact me by phone at
(213) 576-6785 or by email at LB.Nye@waterboards.ca.gov.

Sincerely,

LB Nye, Senior Environmental Scientist
Section 401 Certification and Wetlands Unit
Los Angeles Water Quality Control Board

Enclosures (1): Order for Mesa 500 Kilovolts Substation, File No. 16-019

cc: [Via email only] (w/ enclosure):

Richard Haywood
Southern California Edison Company

Bill Orme
CWA Section 401 WQC Program
Division of Water Quality
State Water Resources Control Board

Melissa Scianni
U.S. Environmental Protection Agency, Region 9

Victoria Chau
California Department of Fish and Wildlife

Shannon Pankratz
U.S Army Corps of Engineers

G. Mendel Stewart
Johnathan Snyder
U.S. Fish and Wildlife Service



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ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER

Effective Date: August 7, 2017

Program Type: Fill/Excavation

Reg. Meas. ID:	405157
Place ID:	823021
WDID:	4WQC40116019
NWP:	NWP 12
USACOE#:	SPL-2015-0324
R4 File No	16-019

Project Type: Support Facilities Only

Project: Mesa 500 Kilovolts Substation (Project)

Applicant: Southern California Edison Company (SCE)

Applicant Contact: Hazem Gabr
Southern California Edison Company
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Water Board Contact Person:

If you have any questions, please call Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) Staff listed above or (213) 576-6600 and ask to speak with the Water Quality Certification and Wetlands Unit Program Manager.

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I. Order

This Clean Water Act (CWA) section 401 Water Quality Certification action and Order (Order) is issued at the request of Southern California Edison Company (herein after Permittee) for the Mesa 500 kilovolt (kV) Substation Project (Project). This Order is for the purpose described in application submitted by the Permittee. The application was received on February 4, 2016. The application was deemed complete on February 27, 2017.

II. Public Notice

The Los Angeles Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 from February 9, 2016 to effective date of this Order. The Los Angeles Water Board did not receive any comments during the comment period.

III. Project Purpose

The Mesa 500 kilovolt (kV) Substation Project will provide additional transmission import capability, allowing greater flexibility in the siting of new generation facilities, and reducing the total amount of new generation required to meet local reliability needs in the Western Los Angeles Basin area. The Project will address reliability concerns resulting from the pending shutdown of certain generation facilities that rely on Once-Through Cooling (OTC) technology, as well as the recent retirement of the San Onofre Nuclear Generating Station (SONGS).

IV. Project Description

The proposed Mesa Substation will be constructed on approximately 69.4 acres within a 86.2 acres SCE fee-owned property located in the City of Monterey Park, in Los Angeles County. The existing Mesa Substation occupies approximately 21.6 acres within the same approximately 69.4-acre area.

The Mesa Substation will include the following main components:

- A new 500 kV switchrack with three 500/220 kV transformer banks;
- A loop-in of the existing Mira Loma-Vincent 500 kV Transmission Line (which currently passes through the substation without landing on a rack position) to the new 500 kV switchrack with new overhead getaways;
- Replacement of existing 220/66/16 kV switchracks, three 220/66 kV transformer banks, and two 66/16 kV transformer banks;
- Relocation of eight existing 220 kV transmission lines to the new 220 kV switchrack with new overhead getaways;
- A loop-in of the existing Goodrich-Laguna Bell 220 kV and Laguna Bell-Rio Hondo 220 kV transmission lines (which both currently pass through the existing substation without landing on a rack position) to the new 220 kV switchrack with new overhead getaways;
- Relocation of 16 existing 66 kV subtransmission lines to the new 66 kV switchrack with new underground getaways;

- Relocation of five existing 16 kV distribution lines to the new 16 kV switchrack with new underground getaways;
- Construction of two new Mechanical Electrical Equipment Rooms (MEERs), a Test and Maintenance Building, and an Operations Building;
- Relocation of various telecommunications cables;
- Removal of a Metropolitan Water District of Southern California 72-inch-diameter waterline that currently runs through the middle of the proposed Mesa Substation property which will be replaced by an 84-inch-diameter waterline to a westerly location on the substation site;
- Relocation of two sets of third-party cellular telephone buildings, towers, and antennas to the northeast corner of the property; and
- Installation of new 16 kV distribution Station Light and Power supplies from the existing franchise areas adjacent to Mesa Substation to replace the existing supplies.

Mesa Substation Construction

Prior to construction, the existing Mesa Substation site will be cleared and graded to prepare the site for construction. Approximately 83.3 acres of the site will be graded. Approximately 20 acres of on-site vegetation will be removed during the clearing, grubbing, and grading for the construction of the proposed Mesa Substation, including trees along the frontage and within the fence line of the existing Mesa Substation site. Construction of the proposed Mesa Substation will occur in phases.

Phase 1 includes preliminary activities, such as relocation of the Metropolitan Water District of Southern California water pipeline, vegetation removal, removal of some equipment stored on site, and installation of temporary fencing. This phase also includes, but is not limited to, activities such as mass grading; access road construction, including retaining walls; assembly and erection of various transmission and subtransmission overhead structures; and possibly the construction of the Operations Building and the Test and Maintenance Building. This phase involves the import of approximately 100,000 CY of fill to develop the western portion of the proposed Mesa Substation site.

Site grading will be accomplished primarily with bulldozers and backhoes, which will condition, cut and fill, and blend the native soil and imported material to the desired pad elevations.

Phase 1 will generally occur between the late third quarter of 2017 and the end of fourth quarter of 2018. The majority of impacts to waters (including permanent filling and rerouting/undergrounding of some features) will occur during this phase.

Phase 2 includes the extension of the new 220 kV switchrack, one 220/66 kV transformer bank, one 66 kV capacitor bank, and the necessary underground and overhead facilities to connect the relocated circuits (of both voltage levels). This will include, but is not limited to, activities such as decommissioning and removal of the western portion of the existing 220 kV switchrack; grading and civil improvements, including the detention basin and other drainage improvements; construction of the southern portion of the new 220 kV switchrack; and

assembly and erection of various transmission and subtransmission overhead structures. This phase will generally occur between the first quarter of 2018 and the fourth quarter of 2019.

Phase 3 includes decommissioning and demolition of the balance of the existing substation, construction of the new 500 kV switchrack on the eastern portion of the site, and connecting the transmission lines. This phase will include, but is not limited to, activities such as structural and civil demolition and access road construction, including retaining walls; installation of foundations and piping for three 500/220 kV transformer banks, including Spill Prevention Control and Countermeasure Plan facilities; and assembly and erection of various transmission overhead switchracks and transmission towers. This phase will generally take place between the first quarter of 2020 and the fourth quarter of 2021. However, post-construction testing after the substation is operational will occur through the second quarter of 2021.

Access

Primary access to the proposed Mesa Substation will be from Potrero Grande Drive via a new asphalt and/or concrete access driveway. Secondary access will be via a new access driveway off of East Markland Drive. The entrance at Potrero Grande Drive will be approximately 50 feet wide, and the entrance at East Markland Drive will be approximately 30 feet wide. Gates will be installed at both driveway entrances.

Trenching

Construction activities will begin with the survey of existing underground utilities along the proposed underground subtransmission source line route. The Project includes a total of approximately 5.5 miles of new underground 66 kV subtransmission lines and associated transition and support structures. A trench measuring approximately 2 feet wide and 5 feet deep will be required to place the 66 kV subtransmission line underground.

Excavated materials will be reused as fill for the Project and/or will be disposed of at an off-site disposal facility in accordance with applicable laws, if necessary. Should groundwater be encountered, it will be pumped into a tank and disposed of at an off-site disposal facility in accordance with applicable laws. Trenching will be staged so that open trench lengths will not exceed that which is required to install the lines. Where needed, open trench sections will have steel plates placed over them to maintain vehicular and pedestrian traffic.

Metropolitan Water District Water line Relocation

The Project will include the relocation of an approximately 2,700 foot portion of the existing 72-inch Metropolitan Water District (MWD) water line. The MWD water line traverses the Mesa Substation site in a north-south direction and crosses Potrero Grande Drive. The line will be replaced with an approximately 3,800 foot long 84-inch waterline and relocated to the west of its existing configuration. Both the existing and proposed water lines have, and will continue to have, approximately 10 feet of cover. Standard trenching methods will be used to install the proposed water line pipe on the north side of Potrero Grande Drive from the interception with the existing water line to the edge of the paved road, approximately 1,400 feet. South of Potrero Grande Drive, on the Mesa Substation property, trenching will be used from the south side of the road to where the new pipe intercepts the existing pipe, approximately 1,600 feet. The Permittee will use the horizontal jack-and-bore construction technique to install the water line underneath Potrero Grande Drive, approximately 500 feet.

Horizontal directional drilling

The Permittee will use horizontal directional drilling (HDD) to install several of the new subtransmission duct banks from the interior of the substation to the north side of Potrero Grande Drive, in order to resolve the change in grade between those areas and to help avoid impacts to other existing underground utilities typically found in the street. HDD technology is an underground boring technique that uses hydraulically powered, horizontal drilling equipment. It involves drilling along a vertical arc that passes beneath the intended feature.

As part of the drilling design process, geotechnical surveys of subsurface conditions will be conducted to determine the underlying geologic strata along the bore path. If a frac-out occurs, the boring operation will be stopped immediately, and a frac-out contingency plan will be implemented to contain and remove the drilling mud. No HDD operations will occur below any jurisdictional waters of the state; drilling paths are proposed under existing streets following existing utility lines.

Storm Water System

Development of the substation site includes a storm water system. A detention pond will be developed in the southwest corner of the substation site. The detention pond will be approximately 1 acre with a capacity of approximately 455,000 gallons, and will be constructed from mulch, gravel, soil, and geotextile membrane layers. Water runoff around the transformer banks will flow into a catch basin system installed around each transformer, which connects to a drainage pipe that flows into a concrete-lined detention basin that measures approximately 100 feet long, 50 feet wide, and 20 feet deep. Drainage systems will be constructed along the perimeter of the substation to direct interior surface runoff to the detention pond.

Drainages Impacted

There will be eight ephemeral drainage features impacted by the project.

CDFW Label	Feature Number	Approximate Impact to Feature (acres/linear feet)		Impact Description
		Permanent	Temporary	
Drainage 1	11-94-S-5	0.28/ 716	--	This feature is comprised of the concrete perimeter drain around the existing substation and disturbed earthen bottom channel. The feature will be permanently filled by site grading and the substation expansion.
Drainage 1.2	11-94-S-2	0.05/ 941	--	This feature is a small disturbed earthen channel that will permanently filled by the construction of the Mesa Substation. The feature is a remnant channel formerly carrying road runoff Potrero Grande Drive. Flows currently carried within this will be diverted within an underground perimeter drain to be constructed as part of the project.

CDFW Label	Feature Number	Approximate Impact to Feature (acres/linear feet)		Impact Description
		Permanent	Temporary	
Drainage 2	7-38-S-1 7-39-S-1 11-138-S100	0.18/ 2,916	--	This feature is primarily comprised of a disturbed earthen channel that will be permanently filled by the construction of the Mesa Substation. Flows currently carried within this will be diverted within an underground perimeter drain to be constructed as part of the project.
Drainage 2.1	7-39-S-6	0.02/ 430	--	This feature is a small, disturbed, earthen channel, a portion of which will be permanently filled by the construction of the Mesa Substation. Flows currently carried within this will be diverted into an underground perimeter drain to be constructed as part of the project.
Drainage 2.2	7-39-S-2	0.03/ 423	--	This feature is comprised of a concrete channel and earthen channel, a portion of which will be permanently filled by the construction of the Mesa Substation. Flows currently carried within this will be diverted into an underground perimeter drain to be constructed as part of the project.
Drainage 2.3	7-39-S-3	0.04/ 437	--	This feature is comprised of a grouted rip rap channel and an earthen channel a portion of which will be permanently impacted by construction of Mesa Substation. Flows currently carried within this will be diverted into an underground perimeter drain to be constructed as part of the project.
Drainage 3	7-39-S-5	0.01	0.03/ 684	This feature is a small earthen feature. Temporary impacts will occur for a wire setup site (including potential site preparation, temporary staging, and access for stringing activities) and small amount of permanent fill will be placed to support a transmission tower.
Drainage 4	11-136-S-100 11-136-S-101	--	0.03/ 376	This feature will be temporarily impacted by the structure work area for a subtransmission tower including potential site preparation, temporary staging, and access.

CDFW Label	Feature Number	Approximate Impact to Feature (acres/linear feet)		Impact Description
		Permanent	Temporary	
		--	0.02/ 260	This feature will be temporarily impacted by the structure work area for a subtransmission tower including potential site preparation, temporary staging, and access.
	TOTAL	0.63/ 5,863	0.08/ 1,320	--

The Permittee will clean up and recontour all areas temporarily disturbed by construction of the Project (which may include the material staging yards, stringing sites, structure work areas, and splicing sites) to as close to pre-construction conditions as feasible, or to the conditions agreed upon between the landowner and SCE following the completion of construction of the Project. If restoration and/or revegetation occur within sensitive habitats, a Revegetation Plan will be developed by SCE with the appropriate resource agencies and implemented after construction is complete.

V. Project Location

Proposed project is located in the City of Monterey Park in Los Angeles County.

<u>Latitude</u>	<u>Longitude</u>
34.039419	118.108403
34.037188	118.107130
34.033792	118.111389
34.033724	118.117885
34.034112	118.117988
34.036158	118.115298

A map showing the Project location and the ephemeral drainages are found in Attachment B of this Order.

VI. Project Impact and Receiving Waters Information

The Project is located within the jurisdiction of Los Angeles Regional Water Quality Control Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at: http://www.waterboards.ca.gov/plans_policies/. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet maximum contaminant levels designed to protect human health and ensure that water is safe for domestic use.

Receiving Water: Rio Hondo Reach 1 and 2
(Hydrologic Unit Code: 180701050403)

Designated Beneficial Uses: Rio Hondo Reach 1 and 2
MUN*, GWR, REC-1, REC-2, WARM, WILD

*Conditional beneficial use

VII. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table 1. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

Table 1: Total Project Fill/Excavation Quantity									
Aquatic Resource Type	Temporary Impact ¹			Permanent Impact					
				Physical Loss of Area			Degradation of Ecological Condition Only		
	Acres	CY ²	LF	Acres	CY	LF	Acres	CY	LF
Stream Channel	0.08		1,320	0.63	122	5863			

VIII. Compensatory Mitigation

The Permittee has proposed to pursue compensatory preservation or enhancement mitigation credits from an approved mitigation bank for impacts to jurisdictional Streambed and associated riparian habitat. The Permittee will provide documentation as described in permit conditions.

IX. California Environmental Quality Act (CEQA)

On October 7, 2016, the California Public Utilities Commission (CPUC), as lead agency, certified an environmental impact report (EIR) (State Clearinghouse (SCH) No. 2015061014) for the Project. The Los Angeles Water Board is a responsible agency under CEQA (Pub. Resources Code, § 21069) and in making its determinations and findings, must presume that CPUC’s certified environmental document comports with the requirements of CEQA and is valid. (Pub. Resources Code, § 21167.3.) The Los Angeles Water Board has reviewed and considered the environmental document and finds that the environmental document prepared by CPUC addresses the Project’s water resource impacts. (Cal. Code Regs., tit. 14, § 15096, subd. (f).)

¹ Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

² Cubic Yards (CY); Linear Feet (LF)

X. Petitions for Reconsideration

Any person aggrieved by this action may petition the State Water Board to reconsider this Order in accordance with California Code of Regulations, title 23, section 3867. A petition for reconsideration must be submitted in writing and received within 30 calendar days of the issuance of this Order.

XI. Fees Received

A fee of \$90,000 was received on February 4, 2016. The fee amount was determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as category A - Fill & Excavation Discharges (fee code 84) with the dredge and fill fee calculator.

XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, the Permittee may proceed with the Project under the following terms and conditions:

A. Authorization

Impacts to waters of the state shall not exceed quantities shown in Table 1.

B. Reporting and Notification Requirements

The following section details the reporting and notification types and timing of submittals. Requirements for the content of these reporting and notification types are detailed in Attachment C, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by the Permittee or an authorized representative.

1. Project Reporting

- a. **Annual Reporting:** The Permittee shall submit an Annual Report each year on the anniversary of effective date. Annual reporting shall continue until a Notice of Project Complete Letter is issued to the Permittee.

2. Project Status Notifications

- a. **Request for Notice of Completion of Discharges Letter:** The Permittee shall submit a Request for Notice of Completion of Discharges Letter following completion of active Project construction activities, including any required restoration and permittee-responsible mitigation. This request shall be submitted to the Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities. Upon acceptance of the request, Los Angeles Water Board staff shall issue a Notice of Completion of Discharges Letter to the Permittee which will end the active discharge period and associated annual fees.
- b. **Request for Notice of Project Complete Letter:** The Permittee shall submit a Request for Notice of Project Complete Letter when construction and/or any post-

construction monitoring is complete,³ and no further Project activities will occur. This request shall be submitted to Los Angeles Water Board staff within thirty (30) days following completion of all Project activities. Upon approval of the request, the Los Angeles Water Board staff shall issue a Notice of Project Complete Letter to the Permittee which will end the post discharge monitoring period and associated annual fees.

3. Conditional Notifications and Reports: The following notifications and reports are required as appropriate.

a. Accidental Discharges of Hazardous Materials⁴

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- i. As soon as (A) Permittee has knowledge of the discharge or noncompliance, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures then:
 - first call – 911 (to notify local response agency)
 - then call – Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
 - Lastly follow the required OES procedures as set forth in:
<http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill Booklet Feb2014 FINAL BW Acc.pdf>
- ii. Following notification to OES, the Permittee shall notify Los Angeles Water Board, as soon as practicable (ideally within 24 hours). Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.
- iii. Within five (5) working days of notification to the Los Angeles Water Board, the Permittee must submit an Accidental Discharge of Hazardous Material Report.

b. Violation of Compliance with Water Quality Standards: The Permittee shall notify the Los Angeles Water Board of any event causing a violation of compliance with water quality standards. Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.

- i. Examples of noncompliance events include: lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the state, and water contact with uncured concrete.

³ Completion of post-construction monitoring shall be determined by Los Angeles Water Board staff and shall be contingent on successful attainment of restoration and mitigation performance criteria.

⁴ "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

- ii. This notification must be followed within three (3) working days by submission of a Violation of Compliance with Water Quality Standards Report.

c. In-Water Work

- i. If stream diversion will be necessary, the Permittee shall submit to the Los Angeles Water Board staff a Stream Diversion Plan, with a diagram and a narrative description of the method to divert the stream and associated BMPs for acceptance at least 30 days in advance of any stream diversion.
- ii. During stream diversion, water quality monitoring shall be conducted. Requirements for water quality monitoring are below.
- iii. The Permittee shall notify the Los Angeles Water Board at least forty-eight (48) hours prior to initiating work in water or stream diversions. Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.

d. Modifications to Project

Project modifications may require an amendment of this Order. The Permittee shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. The Permittee shall inform Los Angeles Water Board staff of any Project modifications that will interfere with the Permittee's compliance with this Order.

e. Transfer of Property Ownership: This Order is not transferable in its entirety or in part to any person or organization except after notice to the Los Angeles Water Board in accordance with the following terms:

- i. The Permittee must notify the Los Angeles Water Board of any change in ownership or interest in ownership of the Project area by submitting a Transfer of Property Ownership Report. The Permittee and purchaser must sign and date the notification and provide such notification to the Los Angeles Water Board at least 10 days prior to the transfer of ownership. The purchaser must also submit a written request to the Los Angeles Water Board to be named as the permittee in a revised order.
- ii. Until such time as this Order has been modified to name the purchaser as the permittee, the Permittee shall continue to be responsible for all requirements set forth in this Order.

f. Transfer of Long-Term BMP Maintenance: If maintenance responsibility for post-construction BMPs is legally transferred, the Permittee must submit to the Los Angeles Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer or designer specifications. The Permittee must provide such notification to the Los

Angeles Water Board with a Transfer of Long-Term BMP Maintenance Report at least 10 days prior to the transfer of BMP maintenance responsibility.

C. Water Quality Monitoring

1. **General:** If surface water is present, continuous visual surface water monitoring shall be conducted to detect accidental discharge of construction related pollutants (e.g. oil and grease, turbidity plume, or uncured concrete).
2. **Accidental Discharges/Noncompliance:** Upon occurrence of an accidental discharge of hazardous materials or a violation of compliance with a water quality standard, Los Angeles Water Board staff may require water quality monitoring based on the discharge constituents and/or related water quality objectives and beneficial uses.
3. **In-Water Work or Diversions:** During planned work in water or stream diversions any discharge(s) to waters of the state shall conform to the following water quality standards:

- a. **Oil and Grease.** Waters shall not contain oils, greases, waxes or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses.
- b. **Dissolved Oxygen.** At a minimum, the mean annual dissolved oxygen concentration of all waters shall be greater than 7 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations.

The dissolved oxygen content of all surface waters designated as WARM shall not be depressed below 5 mg/L as a result of waste discharges.

- c. **pH.**
The pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge.
- d. **Turbidity.** Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Sampling shall be conducted in accordance with Table 2 sampling parameters.⁵

⁵ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Los Angeles Water Board staff. Grab samples shall be taken between the surface and mid-depth and not be collected at the same time each day to get a complete representation of variations in the receiving water. A hand-held field meter may be used, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring shall be maintained onsite.

Parameter	Unit of Measurement	Type of Sample	Minimum Frequency
Oil and Grease	N/A	Visual	Continuous
Dissolved Oxygen	mg/L & % saturation	Grab	Daily for the first week, weekly, thereafter
pH	Standard Units	Grab	Daily for the first week, weekly, thereafter
Turbidity	NTU	Grab	Daily for the first week, weekly, thereafter
Temperature	°F (or as °C)	Grab	Daily for the first week, weekly, thereafter

Baseline sampling may be conducted at one location within the project boundary for each phase. Results of the analyses shall be submitted to this Regional Board by the 15th day of each subsequent sampling month. A map or drawing indicating the locations of sampling points shall be included with each submittal.

4. **Post-Construction:** Visually inspect the Project site during the rainy season for five (5) years to ensure excessive erosion, stream instability, or other water quality pollution is not occurring in or downstream of the Project site. If water quality pollution is occurring, contact the Los Angeles Water Board staff member overseeing the Project within three (3) working days. The Los Angeles Water Board may require the submission of a Violation of Compliance with Water Quality Standards Report. Additional permits may be required to carry out any necessary site remediation.

D. Standard

1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, chapter 28, Article 6 commencing with sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Permittee, if the Los Angeles Water Board determines that: the Project fails to comply with any of the conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.
2. This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by the Permittee.

4. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the applicability of any state law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Order.

E. General Compliance

1. Failure to comply with any condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. The Permittee and/or discharger may then be subject to administrative and/or civil liability pursuant to Water Code section 13385.
2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Basin Plans by any applicable Los Angeles Water Board or any applicable State Water Board (collectively Water Boards) water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
3. In response to a suspected violation of any condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provide that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
4. The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order; and all subsequent submittals required as part of this Order. The conditions within this Order and Attachments supersede conflicting provisions within Permittee submittals.
5. This Order and all of its conditions contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.
6. **Construction General Permit Requirement:** The Permittee shall maintain compliance with conditions described in, and required by, NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ; NPDES No. CAS000002).

F. Administrative

1. Signatory requirements for all document submittals required by this Order are presented in Attachment A of this Order.
2. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & G. Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a “take” will result from any act authorized under this Order held by the Permittee, the Permittee must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. The Permittee is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.
3. The Permittee shall grant Los Angeles Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
 - a. Enter upon the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
 - b. Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
 - c. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
 - d. Sample or monitor for the purposes of assuring Order compliance.
4. A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors.
5. A copy of this Order must be available at the Project site(s) during construction for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its posted location at the Project site.

G. Best Management Practices**1. Good Site Management “Housekeeping”**

- The Project will utilize the laydown yard area, located just outside of the southwest corner of the existing Mesa Substation site, for material storage and usage locations. All material for this Project will be delivered from off-site locations directly to the laydown yard area where it will be utilized to properly store construction materials and wastes with proper containment.
- The Permittee will utilize stabilized areas, as necessary, to prevent potential spills and unnecessary tracking of sediment. Spill clean-up materials, material safety data sheets,

material inventory, and emergency contact numbers will be maintained and stored at the substation by the Permittee .

- Stockpiles shall be located a minimum of 50 feet away from any natural drainage courses and shall be for temporary use only.
- Stockpiles shall have proper wind erosion control.
- Stockpiles shall be effectively covered prior to the onset of precipitation and when inactive, or planned to be inactive.
- The Permittee will ensure that spill response personnel are assigned and trained. Spills of oil, petroleum products, and substances listed under Title 40 of the Code of Federal Regulations (parts 110, 117.3, and 302.4), those defined by California regulation or statute, and sanitary and septic wastes shall be contained and cleaned up immediately.
- The Permittee shall maintain equipment and spill clean-up materials on-site. Available equipment and spill clean-up materials include, but not limited to shovels, brooms, spill absorbent, rags, and proper waste containment (i.e. non-permeable, water proof spill containment bin). Waste materials shall be labeled and disposed of properly in accordance with local, state, and federal requirements.
- Storm water contact with waste materials and prevent waste discharges shall be minimized. Waste containers shall be equipped with functional lids and covered at the end of every business day and during rain events. Solid waste, including rubble stockpiles, will be removed and disposed of at appropriate offsite facilities weekly.
- The Permittee shall place hazardous materials in a non-permeable, waterproof spill containment bin and provide training of employees and subcontractors.
- The Permittee will utilize dedicated liquid-tight cement washout stations that will be continuously monitored by the Qualified Stormwater Practitioner (QSP). All dedicated above ground cement washouts will be located in the laydown yard area and shall be replaced prior to or when their capacity reaches 75 percent. Washouts will be constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations and placed a minimum of 50 feet from water courses. Concrete washouts will utilize a 10 milliliter plastic liner to prevent discharge to the underlying ground or surrounding areas, in accordance with the California Stormwater Quality Association (CASQA) BMP Fact Sheet guidelines. A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facility.
- The Permittee shall minimize or eliminate the discharge of construction sanitary/septic wastes. This BMP is applicable to temporary and portable sanitary/septic systems in the construction site area. Portable toilets will be located on the laydown yard area and shall have containment trays to prevent spillage of waste during use or servicing activities. However, should the location change, or if additional portable toilets are necessary, the QSP shall update the Site Maps. Weekly maintenance shall be provided and wastes will be properly disposed of at appropriate offsite facilities. The toilets will be located a minimum of 50 feet away from concentrated flow paths and traffic flow.

- All vehicle and equipment fueling shall be performed off-site, with this BMP being utilized to manage mobile fueling activities which may occur at the laydown yard, if needed. Fuel trucks, each equipped with absorbent spill clean-up materials, will be used for any mobile on the Project. All mobile fueling operations will be conducted at least 50 feet away from drainage courses and on a level graded area. Drip pans will be used for all mobile fueling.
- Construction vehicles and equipment will be serviced, if needed, and stored at the laydown yard. However, if locations change, the QSP shall update the Site Map to reflect current locations. All vehicle storage and maintenance will be conducted at least 50 feet away from any inlets and drainage facilities and on a level graded area. SCE will place drip pans, plastic sheeting, or absorbent material under vehicles and equipment while parked overnight. In storage, and when requiring maintenance activities that involve grease, oil, solvents, or other vehicle fluids.
- The Permittee shall reduce the discharge of pollutants to storm drain facilities or water courses caused by landscaping activities by scheduling said activities in a manner that will limit exposure of disturbed soil to wind, rain, and storm water run-on and runoff. The Project schedule will sequence construction activities with the installation or use of landscaping materials.
- The construction work area will be mass graded. However, The Permittee shall protect and preserve any existing vegetation that may be established within the construction work areas as the three phases of construction are implemented. The protection and preservation of such vegetation will serve to control erosion and filter out sediment.
- At a minimum, and as directed by the QSP or designated personnel, a velocity dissipation device shall be installed within the proposed detention basin on the westerly side of the expanded substation.
- Water Conservation Practices to provide dust control and prevent discharges from dust control activities and water supply equipment. Water will be applied to disturbed soil areas of the Project to control dust and maintain optimum moisture levels for compaction. The water will be applied using water trucks. Water equipment leaks will be repaired immediately. Water application rates will be minimized, as necessary, to prevent runoff and ponding. Note: Water utilized for dust control shall be dechlorinated.
- Linear barriers are placed to prevent sheet flow from running uninterrupted into the laydown yard and active construction areas. If utilized, silt fence shall be placed with a setback of at least three feet from the toe of slope. Sediment shall be removed when it reaches approximately one-third of the barrier height. Barriers shall be removed from the site when no longer required, per the "Final Stabilization Phase" Site Map. The QSP, or designated personnel, shall update Site Maps to show usage locations.
- Gravel bag check dams may be placed per the check dam spacing chart along the access road located at the eastern side of the substation to prevent potential sediment discharge from running uninterrupted. Check dams should be utilized if precipitation is forecasted and construction of the access road has not yet been completed. Upon completion of access road construction, and compaction testing shows 90 percent or greater compaction rates, check dams may be removed and are no longer required prior to forecasted rain events unless otherwise directed by the QSP, or designated personnel. The Permittee shall place check

dams to intercept flows, reduce flow velocity, and provide removal of sediment from runoff flows.

- To prevent sediments from entering the basin, the Permittee will place fiber rolls along the perimeter of the detention basin. Fiber rolls may be placed around disturbed soil area perimeters, the perimeter of the detention basin, trenching, down-slope of exposed soil areas, and around temporary stockpiles. The Permittee shall place fiber rolls in locations to intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from runoff. Pro-Wattle™ may be used in lieu of standard fiber roll material. The QSP, or designated personnel, shall update the Site Maps to show locations. Fiber roll barriers shall be secured (staked) to the ground in a trench depth of one fourth to one-third of the thickness of the roll, and a width of the diameter of the roll. The area behind the wattles will collect and hold runoff in order to allow suspended sediment to settle out. The Permittee will remove this sediment periodically, and especially after heavy rains. Any linear barrier which becomes clogged with sediment will be replaced as necessary to ensure the free flow of water.

- Gravel bag berms will be placed along the Project area perimeter, or trenching upstream and downstream locations to prevent sheet flow from running uninterrupted. The Permittee shall place gravel bags to intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from runoff. The area behind the gravel bags will collect and hold runoff in order to allow suspended sediment to settle out. The Permittee will remove this sediment periodically, and especially after heavy rains. Berms, which become clogged with sediment, will be replaced as necessary to ensure the free flow of water.

- The Permittee will implement sweeping and vacuuming, as necessary at the Project's three construction ingress/egress access points to control sediment that is tracked from the construction areas onto public roads. This will limit the amount of sediment that may be transported to storm drains or watercourses.

- During construction activities, if run-on is observed to be entering the construction area, the Permittee will redirect flows around the substation area and along the natural path of flow. Additionally, if construction sediment laden run-off is observed to be entering the detention basin area, the Permittee shall immediately implement this BMP to redirect flows around the proposed basin. The QSP, or designated personnel, shall update the Site Maps to show implementation locations.

- Existing inlets shown on Potrero Grande Drive will be protected, as necessary, from sediment using SE-5 or SE-6. Protection is only anticipated to be required during the grading and land development phase of construction Phase 1. If the QSP determines that the inlet shall be protected during other phases of construction, the Site Maps shall be updated to reflect this BMP installation. Storm drain inlet protection measures temporarily pond run-off before it enters the storm drain. SCE will remove this sediment periodically, and especially after heavy rains. Gravel bags, which become clogged with sediment, will be replaced as necessary to ensure the water will eventually pass through the gravel bag. Leave room upstream from barrier for water to pond and sediment to settle. Existing inlets shall be covered and protected from grinding, sandblasting, and demolition operations. Any airborne debris from these operations can settle into surrounding inlets. Therefore, these inlets shall be protected with gravel bags or with a plastic medium.

- Stabilized construction entrances/exits shall be constructed and maintained per CASQA's factsheet TC-1 and modified in the field by the QSP as construction conditions change. Stabilized entrance/exits are proposed at the end of the proposed pavement driveway, at the existing substation's entrance, along Markland Drive, along Greenwood Avenue, and along Potrero Grande Drive. Construction entrances/exits will be stabilized to reduce tracking of sediment as result of construction traffic. The designated entrances/exits will be graded to prevent runoff from leaving the construction areas. Stabilization material will be 3- to 6 inch aggregate, minimum. The entrances will be flared where it meets the existing road to provide an adequate turning radius. SCE shall limit speed of vehicles to control dust.

- Impacts will be minimized at construction sites by flagging native vegetation to be avoided. If unable to avoid impacts to protected vegetation, a Habitat Compensation and Revegetation Plan (HCRP) will be prepared in coordination with the appropriate agencies for areas of native habitat temporarily and/or permanently impacted during construction. The HCRP will describe, at a minimum, which vegetation restoration method (e.g. natural revegetation, planting, or reseeding with native seed stock in compliance with the Project's SWPPP) will be implemented in the Project area. The HCRP will also include the species or habitats that could be implemented, the replacement or restoration ration (as appropriate), the restoration methods and techniques, and the monitoring periods and success criteria, as identified in each measure.

2. Storm Water

The project shall comply with the local regulations associated with the Regional Board's Municipal Stormwater Permit issued to Los Angeles County and co-permittees under NPDES No. CAS004001 and Waste Discharge Requirements Order No. R4-2012-0175. The project shall also comply with all requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction Activity, Order No. 2009-0009-DWQ. All stormwater treatment systems shall be located outside of any water of the State and shall not be used as a wetland or riparian mitigation credit.

H. Mitigation for Temporary Impacts

1. The Permittee shall restore all areas of temporary impacts to waters of the state and all Project site upland areas of temporary disturbance which could result in a discharge of waters of the state in accordance with the Habitat Restoration and Monitoring Plan (HRMP) dated March 31, 2017 and incorporated herein by reference.
2. Total required Project compensatory mitigation information for temporary impacts is summarized in Table 3.

Table 3: Required Project Mitigation Quantity for Temporary Impacts ⁷									
Aquatic Resource Type	Mit. Type ⁸	Units	Method ⁹						
			Est.	Re-est.	Reh.	Enh.	Pres.	Unknown	
Stream Channel	PR	Acres		0.08					

I. Compensatory Mitigation for Permanent Impacts¹⁰

1. Compensatory Mitigation Plan

- a. Permittees fulfilling their compensatory mitigation obligations by securing credits from an approved mitigation bank or in-lieu fee program, need only include the items described in 40 CFR § 230.94(c)(6), and the name of the specific mitigation bank or in-lieu fee program to be used.

2. Purchase of Mitigation Credits by Permittee for Compensatory Mitigation

- a. The compensatory mitigation required for impacts to the combined temporary and permanent impacts to Waters of the State is 3.55 acres (5:1 ratio)
- b. To satisfy the above requirement and additional requirements of the CDFG, the Permittee will purchase a total of 8.01 acres of restoration credits from two certified mitigation banks.
 - i. 2.82 acres of Ephemeral Riparian Restoration Credit-Soquel Canyon Mitigation Bank
 - ii. 0.04 acres of Ephemeral Waters Restoration Credits-Soquel Canyon Mitigation Bank
 - iii. 0.07 acres of Intermittent Riparian Restoration Credits-Soquel Canyon Mitigation Bank
 - iv. 0.72 acres of Alluvial Floodplain Re-Establishment Credit- Petersen Ranch Mitigation Bank

⁷ For Staff use only: Record quantities in CIWQS table side B for mitigation for temporary impacts and for permanent degradation of ecological condition; ecological restoration/enhancement projects.

⁸ Mitigation type for onsite restoration of temporary impacts is Permittee Responsible (PR).

⁹ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

¹⁰ Compensatory Mitigation is for permanent physical loss and permanent ecological degradation of a water of the state.

- v. 0.03 acres of Alluvial Floodplain Rehabilitated Credits-Petersen Mitigation Bank
- vi. 4.33 acres of Seasonal Wetland Rehabilitated-Petersen Mitigation Bank

This will leave a surplus of mitigation available to be utilized for additional impacts under any subsequent amendment(s) to this Order.

- c. A copy of Bill of Sale for the purchase of mitigation credit from an approved mitigation bank shall be will be provided to the Los Angeles Water Board within 60 days after project initiation.
- d. The Permittee shall retain responsibility for providing the compensatory mitigation and long-term management until Los Angeles Water Board staff has received documentation of the credit purchase.

Aquatic Resource Type	Comp Mit. Type ¹²	Units	Method ¹³					
			Est.	Re-est.	Reh.	Enh.	Pres.	Unknown
Stream Channel	MB	Acres			0.04			
Riparian Zone	MB	Acres			2.89			
Wetland	MB	Acres			4.33			

XIII. Water Quality Certification

I hereby issue the Order for the Mesa 500 Kilovolts Substation, 4WQC40116019 certifying that as long as all of the conditions listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards). This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this Order to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.)

¹² Compensatory mitigation type may be: In-Lieu-Fee (ILF); Mitigation Bank (MB); Permittee-Responsible (PR)

¹³ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

Except insofar as may be modified by any preceding conditions, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions of this Order and the attachments to this Order; and, (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies, the Regional Water Boards' Water Quality Control Plans and Policies.



Chief Deputy E.O.

Samuel Unger, PE
Executive Officer

for

Los Angeles Water Quality Control Board

8-7-17

Date

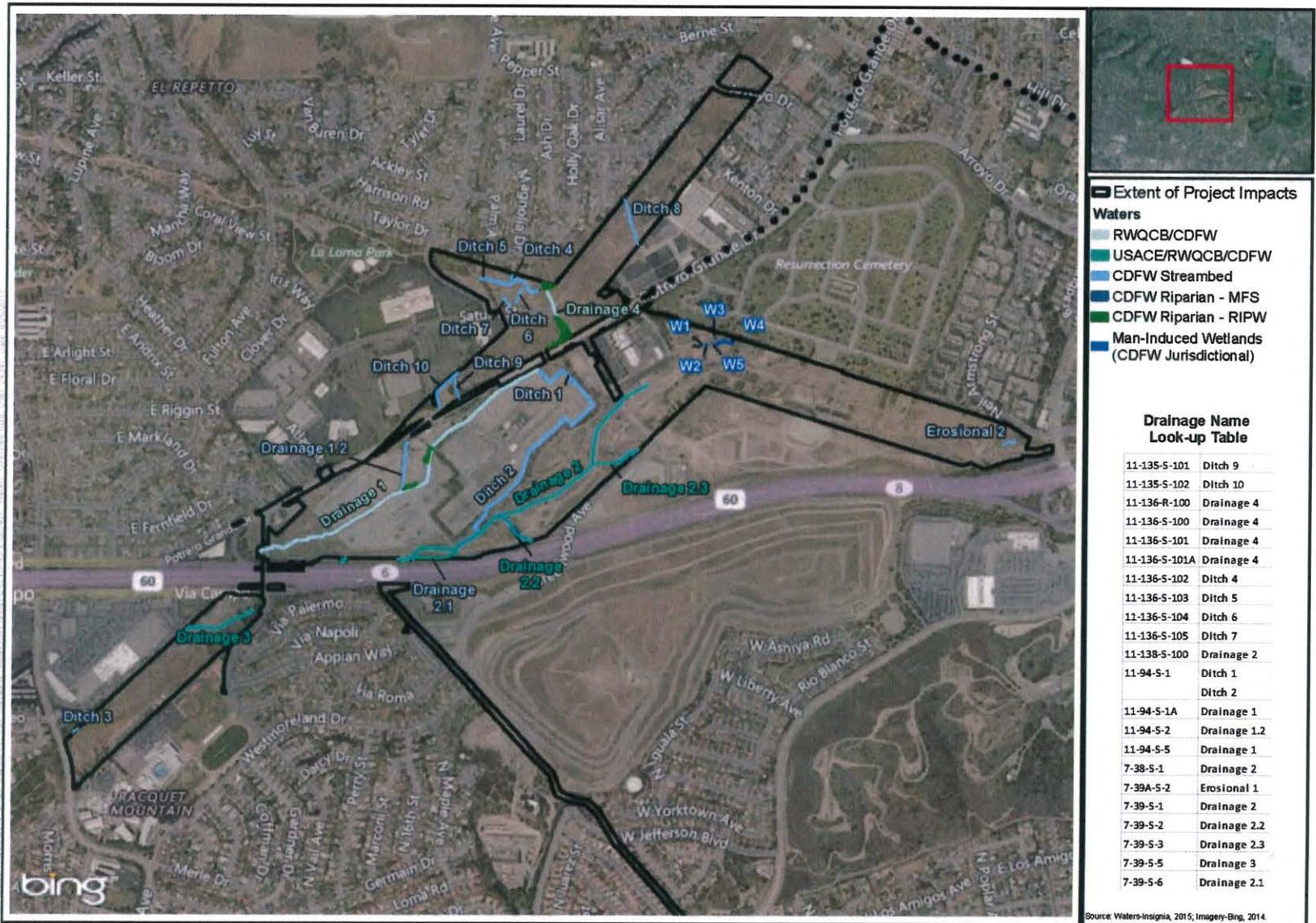
Attachment A
Signatory Requirements

SIGNATORY REQUIREMENTS

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

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

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



Impacts on Waters Overview
Mesa 500-kV Substation Project

Copies of this Form

In order to identify your project, it is necessary to include a copy of the Project specific Cover Sheet below with your report: please retain for your records

Report Submittal Instructions

1. Check the box on the Report and Notification Cover Sheet next to the report or notification you are submitting.
 - **Part A (Annual Report):** This report will be submitted annually from the anniversary of Project effective date until a Notice of Project Complete Letter is issued.
 - **Part B (Project Status Notifications):** Used to notify the Los Angeles Water Board of the status of the Project schedule that may affect Project billing.
 - **Part C (Conditional Notifications and Reports):** Required on a case by case basis for accidental discharges of hazardous materials, violation of compliance with water quality standards, notification of in-water work, or other reports.
2. Sign the Report and Notification Cover Sheet and attach all information requested for the Report Type.
3. **Electronic Report Submittal Instructions:**
 - Submit signed Report and Notification Cover Sheet and required information via email to: Valerie.CarrilloZara@waterboards.ca.gov
 - Include in the subject line of the email:
Subject: ATTN: Valerie CarrilloZara ; File No: 16-019, Reg. Measure ID: 405157_Report

Definition of Reporting Terms

1. **Active Discharge Period:** The active discharge period begins with the effective date of this Order and ends on the date that the Permittee receives a Notice of Completion of Discharges Letter or, if no post-construction monitoring is required, a Notice of Project Complete Letter. The Active Discharge Period includes all elements of the Project including site construction and restoration, and any Permittee responsible compensatory mitigation construction.
2. **Request for Notice of Completion of Discharges Letter:** This request by the Permittee to the Los Angeles Water Board staff pertains to projects that have post construction monitoring requirements, e.g. if site restoration was required to be monitored for 5 years following construction. Los Angeles Water Board staff will review the request and send a Completion of Discharges Letter to the Permittee upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee.
3. **Request for Notice of Project Complete Letter:** This request by the Permittee to the Los Angeles Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements, and no further Project activities are planned. Los Angeles Water Board staff will review the request and send a Project Complete

Letter to the Permittee upon approval. Termination of annual invoicing of fees will correspond with the date of this letter.

4. **Post-Discharge Monitoring Period:** The post-discharge monitoring period begins on the date of the Notice of Completion of Discharges Letter and ends on the date of the Notice of Project Complete Letter issued by the Los Angeles Water Board staff. The Post-Discharge Monitoring Period includes continued water quality monitoring or compensatory mitigation monitoring.
5. **Effective Date:** Date of Order issuance.

Map/Photo Documentation Information

When submitting maps or photos, please use the following formats.

1. **Map Format Information:**

Preferred map formats of at least 1:24000 (1" = 2000') detail (listed in order of preference):

- **GIS shapefiles:** The shapefiles must depict the boundaries of all project areas and extent of aquatic resources impacted. Each shape should be attributed with the extent/type of aquatic resources impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify datum/projection used and if possible, provide map with a North American Datum of 1983 (NAD38) in the California Teale Albers projection in feet.
- **Google KML files** saved from Google Maps: My Maps or Google Earth Pro. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. Include URL(s) of maps. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
- **Other electronic format** (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
- Aquatic resource maps marked on paper **USGS 7.5 minute topographic maps** or **Digital Orthophoto Quarter Quads (DOQQ)** printouts. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.

2. **Photo-Documentation:** Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post construction conditions.

REPORT AND NOTIFICATION COVER SHEET

Project: Mesa 500 Kilovolts Substaion
Permittee: Southern California Edison Company, Nazem Gabr
Reg. Meas. ID: 405157 **Place ID:** 823021
File No: 16-019

Report Type Submitted

Part A – Project Reporting

Report Type **Annual Report**

Part B - Project Status Notifications

- Report Type** **Commencement of Construction**
- Report Type** **Request for Notice of Completion of Discharges Letter**
- Report Type** **Request for Notice of Project Complete Letter**

Part C - Conditional Notifications and Reports

- Report Type** **Accidental Discharge of Hazardous Material Report**
- Report Type** **Violation of Compliance with Water Quality Standards Report**
- Report Type** **In-Water Work/Diversions Water Quality Monitoring Report**
- Report Type** **Modifications to Project Report**
- Report Type** **Transfer of Property Ownership Report**
- Report Type** **Transfer of Long-Term BMP Maintenance Report**

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

Print Name ¹

Affiliation and Job Title

Signature

Date

¹STATEMENT OF AUTHORIZATION (include if authorization has changed since application was submitted)

I hereby authorize _____ to act in my behalf as my representative in the submittal of this report, and to furnish upon request, supplemental information in support of this submittal.

Permittee's Signature

Date

*This Report and Notification Cover Sheet must be signed by the Permittee or a duly authorized representative and included with all written submittals.

Part A – Project Reporting

Report Type	Annual Report
Report Purpose	Notify the Los Angeles Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit	Annual reports shall be submitted each year on the anniversary of Project effective date. Annual reports shall continue until a Notice of Project Complete Letter is issued to the Permittee.
Report Contents	<p>The contents of the annual report shall include the topics indicated below for each project period. Report contents are outlined in Annual Report Topics below.</p> <p><u>During the Active Discharge Period</u></p> <ul style="list-style-type: none"> • Topic 1: Construction Summary • Topic 2: Mitigation for Temporary Impacts Status • Topic 3: Compensatory Mitigation for Permanent Impacts Status <p><u>During the Post-Discharge Monitoring Period</u></p> <ul style="list-style-type: none"> • Topic 2: Mitigation for Temporary Impacts Status • Topic 3: Compensatory Mitigation for Permanent Impacts Status
Annual Report Topics (1-3)	
Annual Report Topic 1	Construction Summary
When to Submit	With the annual report during the Active Discharge Period.
Report Contents	<ol style="list-style-type: none"> 1. Project progress and schedule including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water best management practices (BMPs). If construction has not started, provide estimated start date and reasons for delay. 2. Map showing general Project progress. 3. If applicable: <ol style="list-style-type: none"> a. Summary of Conditional Notification and Report Types 6 and 7 (Part C below). b. Summary of Certification Deviations. See Certification Deviation Attachment for further information.
Annual Report Topic 2	Mitigation for Temporary Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post-Discharge Monitoring Period.

Report Contents	<ol style="list-style-type: none"> 1. Planned date of initiation and map showing locations of mitigation for temporary impacts to waters of the state and all upland areas of temporary disturbance which could result in a discharge to waters of the state. 2. If mitigation for temporary impacts has already commenced, provide a map and information concerning attainment of performance standards contained in the restoration plan.
Annual Report Topic 3	Compensatory Mitigation for Permanent Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post-Discharge Monitoring Period.
Report Contents	<p>*If not applicable report N/A.</p> <p>Part A. Permittee Responsible</p> <ol style="list-style-type: none"> 1. Planned date of initiation of compensatory mitigation site installation. 2. If installation is in progress, a map of what has been completed to date. 3. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan. <p>Part B. Mitigation Bank or In-Lieu Fee</p> <ol style="list-style-type: none"> 1. Status or proof of purchase of credit types and quantities. 2. Include the name of bank/ILF Program and contact information. 3. If ILF, location of project and type if known.

Part B – Project Status Notifications

Report Type	Commencement of Construction
Report Purpose	Notify Los Angeles Water Board staff prior to the start of construction.
When to Submit	Must be received at least seven (7) days prior to start of initial ground disturbance activities.
Report Contents	<ol style="list-style-type: none"> 1. Date of commencement of construction. 2. Anticipated date when discharges to waters of the state will occur. 3. Project schedule milestones including a schedule for onsite compensatory mitigation, if applicable.

Report Type	Request for Notice of Completion of Discharges Letter
Report Purpose	Notify Los Angeles Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and permittee responsible compensatory mitigation, is complete.
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities.
Report Contents	<ol style="list-style-type: none"> 1. Status of storm water Notice of Termination(s), if applicable. 2. Status of post-construction storm water BMP installation. 3. Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized. 4. Summary of Certification Deviation discharge quantities compared to initial authorized impacts to waters of the state, if applicable. 5. An updated monitoring schedule for mitigation for temporary impacts to waters of the state and permittee responsible compensatory mitigation during the post-discharge monitoring period, if applicable.

Report Type	Request for Notice of Project Complete Letter
Report Purpose	Notify Los Angeles Water Board staff that construction and/or any post-construction monitoring is complete, or is not required, and no further Project activity is planned.
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents	<p>Part A: Mitigation for Temporary Impacts</p> <ol style="list-style-type: none"> 1. A report establishing that the performance standards outlined in the restoration plan have been met for Project site upland areas of temporary disturbance which could result in a discharge to waters of the state. 2. A report establishing that the performance standards outlined in the restoration plan have been met for restored areas of temporary impacts to waters of the state. Pre- and post-photo documentation of all restoration sites.

Part B: Permittee Responsible Compensatory Mitigation

3. A report establishing that the performance standards outlined in the compensatory mitigation plan have been met.
4. Status on the implementation of the long-term maintenance and management plan and funding of endowment.
5. Pre- and post-photo documentation of all compensatory mitigation sites.
6. Final maps of all compensatory mitigation areas (including buffers).

Part C: Post-Construction Storm Water BMPs

7. Date of storm water Notice of Termination(s), if applicable.
8. Report status and functionality of all post-construction BMPs.

Part C – Conditional Notifications and Reports

Report Type	Accidental Discharge of Hazardous Material Report
Report Purpose	Notifies Los Angeles Water Board staff that an accidental discharge of hazardous material has occurred.
When to Submit	Within five (5) working days following the date of an accidental discharge. Continue reporting as required by Los Angeles Water Board staff.
Report Contents	<ol style="list-style-type: none"> 1. The report shall include the OES Incident/Assessment Form, a full description and map of the accidental discharge incident (i.e. location, time and date, source, discharge constituent and quantity, aerial extent, and photo documentation). If applicable, the OES Written Follow-Up Report may be substituted. 2. If applicable, any required sampling data, a full description of the sampling methods including frequency/dates and times of sampling, equipment, locations of sampling sites. 3. Locations and construction specifications of any barriers, including silt curtains or diverting structures, and any associated trenching or anchoring.

Report Type	Violation of Compliance with Water Quality Standards Report
Report Purpose	Notifies Los Angeles Water Board staff that a violation of compliance with water quality standards has occurred.
When to Submit	The Permittee shall report any event that causes a violation of water quality standards within three (3) working days of the noncompliance event notification to Los Angeles Water Board staff.
Report Contents	The report shall include: the cause; the location shown on a map; and the period of the noncompliance including exact dates and times. If the noncompliance has not been corrected, include: the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and any monitoring results if required by Los Angeles Water Board staff.

Report Type	In-Water Work and Diversions Water Quality Monitoring Report
Report Purpose	Notifies Los Angeles Water Board staff of the completion of in-water work.
When to Submit	Within three (3) working days following the completion of in-water work. Continue reporting in accordance with the approved water quality monitoring plan.
Report Contents	As required by the approved water quality monitoring plan.

Report Type	Modifications to Project Report
Report Purpose	

Report Purpose	Notifies Los Angeles Water Board staff if the Project, as described in the application materials, is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
When to Submit	If Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
Report Contents	A description and location of any alterations to Project implementation. Identification of any Project modifications that will interfere with the Permittee's compliance with the Order.

Report Type	Transfer of Property Ownership Report
Report Purpose	Notifies Los Angeles Water Board staff of change in ownership of the Project or Permittee-responsible mitigation area.
When to Submit	At least 10 working days prior to the transfer of ownership.
Report Contents	<ol style="list-style-type: none"> 1. A statement that the Permittee has provided the purchaser with a copy of this Order and that the purchaser understands and accepts: <ol style="list-style-type: none"> a. the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and b. responsibility for compliance with any long-term BMP² maintenance plan requirements in this Order. 2. A statement that the Permittee has informed the purchaser to submit a written request to the Los Angeles Water Board to be named as the permittee in a revised order.

Report Type	Transfer of Long-Term BMP Maintenance Report
Report Purpose	Notifies Los Angeles Water Board staff of transfer of long-term BMP maintenance responsibility.
When to Submit	At least 10 working days prior to the transfer of BMP maintenance responsibility.
Report Contents	A copy of the legal document transferring maintenance responsibility of post-construction BMPs.

² Best Management Practices (BMPs) is a term used to describe a type of water pollution or environmental control.