

Southern California Edison

Notice to Proceed Request–2

Construct Segments VIG4 through VIG8; Excluding sites requiring jurisdictional waters permits

June 26, 2020

Table of Contents

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 PROJECT COMPONENTS	2
2.1 Subtransmission, Distribution and Telecommunications Components	2
2.1.1 Segment VIG4	3
2.1.2 Segment VIG5	3
2.1.3 Segment VIG6	3
2.1.4 Segment VIG7	4
2.1.5 Segment VIG8	4
2.1.6 Ivyglen Substation	4
2.2 Project Support Components	4
2.2.1 Staging Areas	4
2.2.2 Grading	5
2.2.3 Helicopter Support	6
2.3 Consistency with the FEIR	6
2.4 Construction Activities	7
2.5 Ancillary Activities	7
2.6 Excavation	7
2.6.1 Subtransmission Pole Installation	8
2.6.2 Underground Facility Installation	8
3.0 IMPLEMENTATION OF PROJECT COMMITMENTS AND MITIGATION MEASURES	8
4.0 PROJECT LOCATIONS	9
4.1 Disturbance Area	9
5.0 CONSTRUCTION AND ACTIVITY SCHEDULE	10
6.0 CONSTRUCTION EQUIPMENT AND PERSONNEL	10
6.1 Total and Peak Personnel	10
7.0 BIOLOGICAL RESOURCE SURVEYS	14
8.0 CULTURAL AND PALEONTOLOGICAL RESOURCE SURVEYS	14
9.0 MITIGATION MONITORING COMPLIANCE AND REPORTING PROGRAM IMPLEMENTATION	14
10.0 JURISDICTIONAL PERMITS AND AGENCY APPROVALS	15
11.0 PRECONSTRUCTION COMPLIANCE ACTIVITIES OUTSTANDING	16
Appendix A Project Schedule	
Appendix B Construction Location Maps	
Appendix C Mitigation Monitoring Compliance Reporting Program Implementation Table	
Appendix D Biological Review	
Appendix E Cultural Resources Assessment	
Appendix F Paleontological Resources Assessment	

Tables

Table 1.0-1	Activities Associated with NTPR-2 Components	1
Table 2.2-1	Road Improvement Levels	6
Table 2.2-2	Road Improvement Lengths	6
Table 2.6-1	Volume of Soil to be Excavated for Each Structure Type	8
Table 4.1-1	Disturbances Associated with NTPR-2 Project Components	9
Table 6.1-1a	Construction Equipment and Personnel Expected for Survey, Laydown Yard, Right of Way Clearing, Roads and Landings Construction, and Blasting	10
Table 6.1-1b	Construction Equipment and Personnel Expected for Guard Structure Installation and Removal	12
Table 6.1-1c	Construction Equipment and Personnel Expected for Subtransmission Installation	12
Table 6.1-1d	Construction Equipment and Personnel Expected for Infrastructure Removal Activities	13
Table 6.1-1e	Construction Equipment and Personnel Expected for Underground Scope	13
Table 6.1-1f	Construction Equipment and Personnel Expected for Restoration Scope	14
Table 10.0-1	Permits and Documentation Associated with VIG NTPR-2	15
Table 11.0-1	State of Outstanding Preconstruction Compliance Activities and Items	16

Acronyms

Acronym	Definition
BMP	Best Management Practice
Caltrans	California Department of Transportation
CPUC	California Public Utilities Commission
ESA	Environmentally Sensitive Area
FEIR	Final Environmental Impact Report
LWS	Light-weight steel
MM	Mitigation Measure
NTPR	Notice to Proceed Request
Project or VIG	Valley-Ivyglen Subtransmission Line Project
SCE	Southern California Edison
SWPPP	Stormwater Pollution Prevention Plan
TSP	Tubular steel pole

1.0 INTRODUCTION

This Notice to Proceed Request 1 (NTPR-2) includes construction for the Valley-Ivyglen Subtransmission Line Project (Project or VIG) on Segments VIG4, VIG5, VIG6, VIG7, and VIG8, including installation of overhead 115-kV subtransmission line and fiber optic line on new structures and in underground trenches, transfer of existing distribution circuits along the subtransmission line to new 115-kV structures or underground positions, and installation of new 115-kV switching and protective equipment at Ivyglen Substation. NTPR-2 excludes work at sites requiring jurisdictional waters permits.

Table 1.0-1 Activities Associated with NTPR-2 Components

Project Component	Approval Device	Sub-area	Primary Project Activities to be Conducted	Site Preparation Activities
Segment VIG4	Final Environmental Impact Report (FEIR)	Subtransmission Telecommunications Distribution	Install tubular steel poles (TSPs), light-weight steel (LWS) poles, guard poles, anchors, guy poles, conductor, and fiber optic.	Improve/construct access roads and work areas as necessary, install Stormwater Pollution Prevention Plan (SWPPP) best management practices (BMPs).
Segment VIG5	FEIR	Subtransmission Telecommunications Distribution	Install TSPs, LWS poles, guard poles, anchors, guy poles, wires, conductor, and fiber optic.	Improve/construct access roads and work areas as necessary, install SWPPP BMPs.
Segment VIG6	FEIR	Subtransmission Telecommunications Distribution	Install TSPs, LWS poles, guard poles, anchors, wires, conductor, and fiber optic.	Improve/construct access roads and work areas as necessary, install SWPPP BMPs.
Segment VIG7	FEIR	Subtransmission Telecommunications Distribution	Install TSPs, LWS poles, wood poles, guard poles, anchors, wires, conductor, and fiber optic.	Improve/construct access roads and work areas as necessary, install SWPPP BMPs.
Segment VIG8	FEIR	Subtransmission Telecommunications Distribution	Install TSPs, guard poles, underground duct banks and vaults, manholes, conductor, and fiber optic.	Improve/construct access roads and work areas as necessary, install SWPPP BMPs.
Ivyglen Substation	FEIR	Substation	Install circuit breakers and disconnect switches.	None; all work to be performed on existing disturbed areas suitable for construction within substations.
Concordia Yard (Requested in MPR 001)	FEIR	Subtransmission Telecommunications Distribution	Contractor show-up area, material equipment storage, equipment and material receipt, equipment repair, welding and cutting	Vegetation removal, placement of gravel. Installation of construction trailers, SWPPP BMPs, fencing with screening, temporary sanitation facilities, and trash containers. Install fuel tank.

2.0 PROJECT COMPONENTS

2.1 Subtransmission, Distribution and Telecommunications Components

NTPR-2 would include all work within the general disturbance areas in Segments VIG4–VIG8 as described in the VIG FEIR with the exclusion of locations that require jurisdictional waters permits as described here:

- Structure work within the channel area at Structures 338E, 339E, 340E, 341E, 342E, 343E, and 344E (VIG4);
- Structure work within the ephemeral streambed at Structure 344E (VIG4);
- Structure work within the wetland at Structure 369E (VIG4);
- Structure work, wire work, and tree trimming within the wetland/riparian area at Structure 370E (VIG4);
- Structure work within the wetland at Structure 372E and tree trimming before and after Structure 372E (VIG4);
- Structure work within the riparian area at Structure WP1 (VIG4);
- Structure work within the ephemeral streambed/riparian area at Structure 413E (VIG5);
- Structure work within the ephemeral streambed/riparian area at Structure 421E (VIG5);
- Structure and access road work within the ephemeral streambed at Structure 424E (VIG5);
- Structure work within the riparian area at Structure 449E (VIG5);
- Structure and access road work within the ephemeral streambed/riparian area at Structures 481E and FIG-015 (VIG5);
- Tree trimming within the riparian area between Structures 481E and 482E and between FIG-015 and FIG-016 (VIG5);
- Guard pole work within the ephemeral streambed/riparian area at Structures FIG-030 (VIG5);
- Structure work within the riparian area at Structure FIG-039 (VIG5);
- Structure work within the ephemeral streambed at Structure FIG-048 (VIG5);
- Structure work within the ephemeral streambed/riparian area at Structure 520E (VIG6);
- Tree trimming within the riparian area between Structures 520E and 521E (VIG6);
- Structure and access road work within the riparian area at Structure 522E (VIG6);
- Tree trimming within the wetland/riparian area between Structures 522E and 523E (VIG6);
- Structure work within the ephemeral streambed/riparian area at Structures TBD and TBD, west of 525E (VIG6);
- Gabion basket and access road work within the ephemeral streambed leading to Structures 528E and 529E (VIG6);
- Gabion basket and access road work within the riparian area leading to Structures 533E (VIG6);
- Structure work within the ephemeral streambed at Structure 574E (VIG7);
- Structure work within the ephemeral streambed/riparian area at Structure 580E (VIG8);
- Structure and wire work within the ephemeral streambed/riparian area at Structures 581E and 2378044E (VIG8).

The excluded sites requiring jurisdictional waters permits are adjacent to sites requested in NTPR-2. To ensure that construction activities do not inadvertently occur within the excluded work areas, protective measures shall be implemented. Per MM BR-1, areas requiring waters permits will be flagged and marked with signs as Environmentally Sensitive Areas (ESAs). If the ESAs are immediately adjacent to active work areas, fencing may be installed at the ESA boundary to ensure that encroachment does not occur. Construction monitors will regularly inspect ESA flagging, signage, and fencing and perform repairs, as necessary. Furthermore, Project personnel will have access to the Collector for ArcGIS application via their smart

phones. Collector will provide project maps showing their current location relative to ESA avoidance areas.

2.1.1 Segment VIG4

The work within the general disturbance area of Segment VIG4 described in the VIG FEIR Section 2.3 would be completed under NTPR-2, except for work at locations requiring jurisdictional waters permits described above in Section 2.1.

VIG FEIR Scope	NTP-2 Scope¹
Install 2.5 miles of new 115-kV conductor	Install 2.40 miles of new 115-kV conductor
Install 2 wood, 63 LWS poles, and 4 hybrid poles, 8 TSPs, 3 guy poles	Install 0 wood, 53 LWS, 0 hybrid poles, 10 TSPs, 2 guy poles ²
Relocate portions of existing distribution line to new 115-kV structures	Relocate existing distribution line to new structures, remove 17 distribution poles
Install fiber optic line on new 115-kV structures and in new underground conduit	Install 2.257 miles of fiber optic line overhead and 0.143 miles of fiber optic line underground
¹ To facilitate installation and relocation of conductor in VIG4, helicopter landing may occur within work areas within the VIG4 general disturbance area. Guard sites would be established at 8 locations, and 24 pulling/tensioning sites would be established.	
² LWS poles 65–115 feet tall, TSPs 80–115 feet tall, guy poles 30–60 feet tall.	

2.1.2 Segment VIG5

The work within the general disturbance area of Segment VIG5 described in the VIG FEIR Section 2.3 would be completed under NTPR-2, except for work at locations requiring jurisdictional waters permits described above in Section 2.1.

VIG FEIR Scope	NTP-2 Scope¹
Install 5.11 miles of new or relocated 115-kV conductor	Install 5.46 miles of new 115-kV conductor
Install 1 wood and 100 LWS, 49 TSPs	Install 0 wood, 95 LWS, 53 TSPs, 3 guy poles ²
Relocate portions of existing distribution line to new 115-kV structures	Relocate existing distribution line to new structures, remove 28 distribution poles
Relocate a portion of the existing Fogarty-Ivyglen 115-kV circuit from Temescal Canyon Road to Lake Street	Relocate a portion of the existing Fogarty-Ivyglen 115-kV circuit from Temescal Canyon Road to Lake Street
Install fiber optic line on new 115-kV structures and in existing underground conduit	Install 5.63 miles of fiber optic line overhead and 0.0 miles of fiber optic line underground
¹ To facilitate installation and relocation of conductor in VIG5, helicopter landing may occur within work areas within the VIG5 general disturbance area. Guard sites would be established at 11 locations, and 45 pulling/tensioning sites would be established.	
² LWS poles 65–115 feet tall, TSPs 80–115 feet tall, guy poles 30–60 feet tall.	

2.1.3 Segment VIG6

The work within the general disturbance area of Segment VIG6 described in the VIG FEIR Section 2.3 would be completed under NTPR-2, except for work at locations requiring jurisdictional waters permits described above in Section 2.1.

VIG FEIR Scope	NTP-2 Scope¹
Install 1.83 miles of new 115-kV conductor	Install 1.14 miles of new 115-kV conductor
Install 30 LWS, 12 TSPs, 3 guy poles	Install 3 LWS, 13 TSPs, 0 guy poles ²
Relocate portions of existing distribution line to new 115-kV structures	Relocate existing distribution line to new structures, remove 13 distribution poles
Install fiber optic line on new 115-kV structures	Install 1.14 miles of fiber optic line overhead
¹ To facilitate installation and relocation of conductor in VIG6, helicopter landing may occur within work areas within the VIG6 general disturbance area. Guard sites would be established at 0 locations, and 10 pulling/tensioning sites would be established.	
² LWS poles 65–115 feet tall, TSPs 80–115 feet tall.	

2.1.4 Segment VIG7

The work within the general disturbance area of Segment VIG7 described in the VIG FEIR Section 2.3 would be completed under NTPR-2, except for work at locations requiring jurisdictional waters permits described above in Section 2.1.

VIG FEIR Scope	NTP-2 Scope ¹
Install 2.3 miles of new 115-kV conductor	Install 1.75 miles of new 115-kV conductor for the VIG 115-kV circuit and 0.55 miles of new 115-kV conductor for the Fogarty-Ivyglen circuit
Install 10 wood and 30 LWS, 20 TSPs, 10 wood shoofly poles, and 1 riser pole	Install 0 wood, 23 LWS, 21 TSPs, 12 wood shoofly poles, and 1 riser pole ²
Relocate portions of existing distribution line to new 115-kV structures	Relocate existing distribution line to new structures, remove 30 distribution poles
Install fiber optic line on new 115-kV structures and in new underground conduit	Install 1.13 miles of fiber optic line overhead and ~1330ft of fiber optic line underground in new conduit
¹ To facilitate installation and relocation of conductor in VIG7, helicopter landing may occur within work areas within the VIG7 general disturbance area. Guard sites would be established at 6 locations, and 16 pulling/tensioning sites would be established.	
² LWS poles 65–115 feet tall, TSPs 80–115 feet tall, Wood poles 70–90 feet tall.	

2.1.5 Segment VIG8

The work within the general disturbance area of Segment VIG8 described in the VIG FEIR Section 2.3 would be completed under NTPR-2, except for work at locations requiring jurisdictional waters permits described above in Section 2.1.

VIG FEIR Scope	NTP-2 Scope ¹
Install 1.9 miles of new 115-kV conductor	Install 1.89 miles of new underground 115-kV cable and 0.05 miles of new overhead 115-kV conductor
Install 2 wood, 4 TSPs	Install 0 wood, 3 TSPs ²
Install underground duct bank, 8 underground vaults	Install 1.89 miles underground duct bank, 8 underground vaults
Relocate portions of existing distribution line to new 115-kV structures	Relocate existing distribution line to new structures, remove 0 distribution poles
Install fiber optic line underground in existing underground conduit and in new underground conduit	Install ~10,670 ft of fiber optic line underground in existing conduit and ~1500 ft in new underground conduit
¹ Guard sites would be established at 2 locations, and 1 pulling/tensioning sites would be established.	
² TSPs 80–115 feet tall.	

2.1.6 Ivyglen Substation

The following subtransmission-related work, as described in the VIG FEIR Section 2.3 would be completed at Ivyglen Substation under NTPR-2.

VIG FEIR Scope	NTP-1 Scope
Install 115-kV circuit breaker, 115-kV disconnect switches	Install 115-kV circuit breakers, 115-kV disconnect switches

2.2 Project Support Components

2.2.1 Staging Areas

As described in Section 2.4.3 of the VIG FEIR, construction of the Project requires the establishment of temporary staging areas. Staging areas would be used as reporting locations for workers, vehicle and equipment parking, and material storage. These areas could also have

construction trailers for supervisory and clerical personnel and could be lit for staging and security purposes. In addition, normal maintenance and refueling of construction equipment would also be conducted at staging areas. All refueling and storage of fuels would be performed in accordance with the SWPPP.

Materials commonly stored at the staging areas would include, but not be limited to, construction trailers, construction equipment, temporary sanitation facilities, steel bundles, steel/wood poles, conductor reels, fiber optic cable reels, hardware, insulators, cross arms, signage, consumables (such as fuel and filler compound), tools, waste materials for salvaging, recycling, or disposal, and materials used according to best management practices, such as straw wattles, gravel, and silt fences.

Temporary lighting (mobile light standards) may be installed at any of the staging areas. To mitigate the escape of artificial light from mobile light standards, the lights would be shielded and directed inward to illuminate the staging area. Lights would be manually controlled and used only when necessary. In addition, construction trailers may be equipped with external lights over stairways and external doors.

Hazardous materials (fuels, lubricants, compressed gasses) may be used at any of the staging yards. As described in FEIR Section 2.4.4.7, Hazardous Materials Use and Hazardous Waste Disposal, Hazardous materials would be stored, handled, and used in accordance with applicable regulations. Safety Data Sheets would be made available at the construction site for all crew workers.

Temporary sanitation facilities and bins for construction-related waste may be placed at any of the staging areas. As described in FEIR Section 2.4.4.8, Waste Disposal and Recycling, waste that cannot be reused or recycled (e.g., wood, soil, vegetation, and sanitary waste) would be disposed at approved disposal facilities.

The Concordia yard is proposed to be added to the Project as an approved staging area in MPR 001. Concordia yard would be used for contractor show-up staging of equipment and materials. Existing vegetation would be removed, and gravel placed over the entire surface area. Perimeter fencing with visual screening would be installed. Fuel storage tanks with secondary containment will be installed, as needed. Electrical power and communication services will be provided to the onsite office trailer from the nearby distribution source.

2.2.2 Grading

Prior to the start of construction activities described above, access roads and structure work areas would be constructed or improved as described in the VIG FEIR Sections 2.3.1.3, Access Roads, and 2.4.5.4, 115-kV Structure Construction, Grading and Laydown Areas. Only those access roads or work areas that need improvement will be improved. Table 2.2-1 provides an explanation of road rehabilitation levels.

Water control features, including v-ditches, downdrains, water bars, and berms, among others, would be installed along the access roads as necessary. In some locations along the access road network, steel plates will be placed to protect existing infrastructure (e.g., culverts). The lengths of the access roads to be improved are presented in Table 2.2-2.

Blasting or fracturing would not occur in Segments VIG4 and VIG7, and is not anticipated during access road construction, site preparations, excavation work, or foundation work in Segments VIG5, VIG6, and VIG8, as described in the VIG FEIR Section 2.4.5.4. If blasting or fracturing is needed, a blasting plan would be submitted for CPUC review and approval in accordance with MMs WQ-1 and NV-2. Blasting would only be used in areas where subsurface obstructions reasonably preclude excavation using conventional construction equipment.

Table 2.2-1 Road Improvement Levels

Improvement Level	Definition
0, No Improvement	No improvements to be performed on road.
1, Overland Travel	Drive and crush only. No road improvement or design. No vegetation clearing/grubbing.
2, Minimum Improvement	Scraping/blading, grubbing, vegetation clearing within existing road prism, no widening of road.
3, Medium Improvement	Level 2 plus additional grading, fill ruts and washouts. No widening of road.
4, Heavy Improvement	Includes all previous improvements and road widening.
5, Design Road	Civil engineering-designed road with grading, cut, and fill.

Table 2.2-2 Road Improvement Lengths

Segment	Improvement Level	Length (miles)
VIG4	0	5.49 ^a
	1	0.1
	5	0.07
VIG5	0	5.56 ^a
	1	1.24
	2	0.5
	5	1.00
VIG6	0	10.87 ^a
	1	0.41
	2	1.05
	5	1.24
VIG7	0	2.3 ^a
	1	0.05
	5	0.05
VIG8	0	1.84 ^a
	2	0.06
	5	0.06

^a Includes paved haul roads used to access Project right-of-way.

2.2.3 Helicopter Support

NTPR-2 includes the use of light-duty helicopters for materials delivery, hardware installation, and wire stringing. Helicopter operations will be limited to areas within the general disturbance area in proximity to wire stringing sites or access roads and previously disturbed areas near construction sites. Helicopter fueling, takeoff, and landing may occur at Skylark Field Airport, Perris Valley Airport, the Chino Air Operations Facility at Chino Airport, and within the VIG4, VIG5, VIG6, and VIG7 general disturbance area.

2.3 Consistency with the FEIR

The Project components and activities included under NTPR-2 are addressed in the VIG FEIR. Specifically, the work to be conducted under NTPR-2 is described in the following VIG FEIR Sections: 2.3.1.1, 115-kV Subtransmission Lines; 2.3.1.2, Telecommunications. Work described

in the FEIR but located outside of the general disturbance area areas in VIG4–VIG8 will be presented to the CPUC in a Minor Project Refinement request.

All components that would be completed under NTPR-2 are in areas that have been subject to biological and cultural resources surveys and have been analyzed in the VIG FEIR.

2.4 Construction Activities

A description of the construction activities associated with each of the Project components included in NTPR-2 is provided in Table 1.0-1 above. Construction of these components would be accomplished in a manner consistent with the descriptions contained in the following VIG FEIR Sections: 2.4.5.1, Access Road Construction; 2.4.5.4, 115-kV Structure Construction; 2.4.5.6, Wire Stringing; and 2.4.7.1, Fiber Optic Line Installation.

2.5 Ancillary Activities

Several ancillary activities would be conducted prior to or during the construction, development, or establishment of the components described within NTPR-2.

For example, as described in the VIG FEIR Section 2.4.4.3, Storm Water Pollution Prevention Plans, Storm Water Pollution Prevention Plans (SWPPPs) would be prepared to include Project information, monitoring and reporting procedures, and Best Management Practices (BMPs). Work included in NTPR-2 will be covered by two SWPPPs, one that includes the Concordia yard, and another that includes all other areas of soil disturbance. Project Commitment J addresses dust control, stating that watering would occur three times per day or as needed during excavation, bulldozing, scraping, and grading activities to control fugitive dust. Prior to excavation, underground utilities would be located and marked. Exploratory excavations (potholing) may be required to verify the location of existing utilities.

Material and equipment would be delivered to and moved from staging areas throughout construction of VIG. Appropriate traffic control measures would be established as described in the VIG Traffic Management and Control Plan and as required by the California Department of Transportation (Caltrans) or Riverside County.

As necessary, privately-owned asphalted roads that would be used to access work sites would be protected from damage from construction vehicle traffic. These roads are part of SCE's access road network, and SCE has rights to use them to access their infrastructure. SCE will notify the owners of these roads prior to the start of construction. Pursuant to MM TT-6, photographs of these roads would be taken prior to construction and after completion of any repairs to document restoration to pre-project pavement conditions.

Following the completion of all construction at a given site, sites would be restored/reclaimed in accordance with the Project SWPPPs, Project Commitment D, and the VIG Habitat Restoration and Revegetation Plan.

2.6 Excavation

In total, approximately 9,248 cubic yards of material would be excavated under NTPR-2 during the construction of the components above; this volume is broken down by component below. Non-contaminated soils excavated as part of the NTPR-2 Project components will be used for backfilling, improvement/construction of access roads and work areas, spread onsite to match the existing grade, recycled, or disposed of at an approved facility.

2.6.1 Subtransmission Pole Installation

Table 2.6-1. Volume of Soil to be Excavated for Each Structure Type

	VIG4	VIG5	VIG6	VIG7	VIG8
TSP^a	428 CY	2266 CY	556 CY	898 CY	128 CY
Wood^b	2 CY	3 CY	N/A	15 CY	N/A
LWS^c	64 CY	114 CY	4 CY	28 CY	N/A
Hybrid	N/A	N/A	N/A	N/A	N/A
^a Assumes depth of 30 feet and auger diameter of 7 feet. ^b Assumes depth of 6.7 feet and auger diameter of 2 feet for guy stub wood poles except for VIG7 which assumes a depth of 10.3 ft. ^c Assumes depth of 10.3 feet and auger diameter of 2 feet.					

2.6.2 Underground Facility Installation

- Segment VIG4, installation of fiber optic duct bank: ~70 cubic yards, assuming depth of 2.96' and length of 640'.
- Segment VIG4, installation of fiber optic manhole: ~ 6 cubic yards, assuming outer dimensions of L= 5', W= 5', H= 6'-6".
- Segment VIG8, installation of subtransmission duct bank: ~3,709.5 cubic yards, assuming depth of 5'-7" for a length of 7,300'; and a depth of 9' for a length of 2,500'.
- Segment VIG8, installation of fiber optic duct bank: ~69.4 cubic yards, assuming depth of 2.96' and length of 400'
- Segment VIG8, installation of 8 underground vaults: ~774.8 cubic yards, assuming outer dimensions of L=21'-2.5", W=11'-2.5", H=11'
- Segment VIG8, installation of 8 fiber optic manhole: ~48.1 cubic yards, assuming outer dimensions of L= 5', W= 5', H= 6'-6".

3.0 IMPLEMENTATION OF PROJECT COMMITMENTS AND MITIGATION MEASURES

During construction of the Project components described above, SCE will implement all applicable Project Commitments and Mitigation Measures (MMs) as identified in the VIG FEIR. Appendix C includes a listing of all Project Commitments and MMs applicable to the work that would be conducted under NTPR-2 and includes a discussion of how each item will be implemented during construction.

Prior to construction, SCE will communicate the environmental compliance requirements and appropriate work practices to all SCE crews and Project contractors through a Worker Environmental Awareness Program (WEAP) training. The training includes, but is not limited to, a review of archaeological and paleontological resources, biological resources, dust control measures, hazardous waste and spill prevention, construction fire control and emergency response measures, noise control measures, and SWPPP Best Management Practices (BMPs).

All required preconstruction surveys for biological resources also will be conducted prior to the start of construction, as applicable

4.0 PROJECT LOCATIONS

Construction of the components included in NTPR-2 would occur at locations within the general disturbance area along the lengths of Segments VIG4–VIG8, including Ivyglen Substation. Work locations are located in the City of Lake Elsinore and unincorporated Riverside County. A project location map is provided in Appendix B; detailed project maps are in the Biological Review (Appendix D). The property ownership by component is listed below:

- Segment VIG4: SCE fee owned property, SCE easements over private property, and Public Right of Way.
- Segment VIG5: SCE fee owned property, SCE easements over private property and Public Right of Way.
- Segment VIG6: SCE fee owned property, SCE easements over private property and Public Right of Way.
- Segment VIG7: SCE fee owned property, SCE easements over private property and Public Right of Way.
- Segment VIG8: SCE fee owned property, SCE easements over private property and Public Right of Way.
- Ivyglen Substation: SCE fee owned property.
- Concordia Yard (VIG5): Private Property.

4.1 Disturbance Area

Temporary and permanent disturbance areas associated with the construction components under NTPR-2 are detailed in Table 4.1-1 below. Notably, the Construction Work Areas identified within the Temporary Work Areas comprise structure work areas, drill rig pads, crane pads, civil work limits, and general disturbance areas. Total permanent impacts associated with construction are 6.30 acres. Total temporary impacts associated with construction are 146.68 acres. The quantity and dimensions of NTPR-2 disturbance areas are consistent with what is described in Table 2-5 of the FEIR. Section 2.4.2.1 of the FEIR states that construction of VIG would disturb approximately 633.7 acres of land, including approximately 141.5 acres of permanent disturbance. Total impacts for NTPR-2 are below the amount in the FEIR. Total impacts for all VIG NTPRs are anticipated to be below the quantities given in the FEIR, if quantities in future NTPRs exceed the FEIR, an explanation of significance will be provided.

Table 4.1-1. Disturbances Associated with NTPR-2 Project Components

Project Feature Class	Project Feature	Number of Miles	Number of Sites	Standard Size	Temporary Impact Total	Permanent Disturbance Total
Roads	Level 0 Improvement	26.1 ^a	--	--	0.0	0.0
	Level 1 Improvement	1.8	--	--	0.0	0.0
	Level 2 Improvement	1.64	--	--	0.23 ac (10,018 sq ft)	0.0
	Level 5 Improvement	2.42	--	--	0 ac	6.22 ac
Temporary Work Areas	Guard Sites	--	27	--	2.8 ac (121,968 sq ft)	0.0
	Pull/Tension Sites	--	96	--	38.63 ac ^b (1,682,722 sq ft)	0.0
	Construction Work Areas	--	371	--	102.25 ac (4,454,010 sq ft)	0.0
	General Construction Area	--	4	--	0.89 ac (38,768 sq ft)	--
	Anchor Work Areas	--	41	--	0.56 ac (24,394 sq ft)	--

**Valley-Ivyglen Project
NTPR-2**

Project Feature Class	Project Feature	Number of Miles	Number of Sites	Standard Size	Temporary Impact Total	Permanent Disturbance Total
Install or Modify Structure	LWS or Wood Pole, New	--	174	0.000072 ac (3.14 sq ft)	--	0.012528 ac (546 sq ft)
	Guy Pole	--	5	0.000072 ac (3.1 sq ft)	--	0.00036 ac (16 sq ft)
	TSP New	--	100	0.00065 ac (28.3 sq ft)	--	0.065 ac (2,830 sq ft)
Remove Wood Pole	Distribution pole/Guy Pole	--	88	--	--	0.0
Undergrounding	Trenching	1.85	--	.000036 ac (1.6 sq ft/ft)	1.28 ac (55,717 sq ft)	0.0
	Install Underground Vaults	--	8	0.0055 ac (237.7 sq ft)	0.044 ac (1,902 sq ft)	0.00046 ac (20 sq ft)
	Install Fiber Optic Manhole	--	8	0.00057 ac (25.0 sq ft)	0.0046 ac (200 sq ft)	0.0009 ac (39.2 sq ft)
^a Includes paved haul roads used to access Project right-of-way.						
^b Acreage is greater than actual due to overlapping work areas in engineering data.						

5.0 CONSTRUCTION AND ACTIVITY SCHEDULE

Construction and use of the Project components described above is anticipated to begin in the third quarter of 2020 and end no later than the fourth quarter of 2021 (Appendix A). Activities under NTPR-2 would be conducted in conformance with the following jurisdictional requirements:

- County of Riverside: If activities occur within one-quarter mile of an inhabited dwelling, construction shall occur between 6:00 a.m. and 6:00 p.m. from June through September and between 7:00 a.m. and 6:00 p.m. from October through May.
- City of Lake Elsinore: Between 7:00 a.m. and 7:00 p.m., Monday through Friday. No construction is allowed on weekends or holidays.

In the event construction activities are necessary on days or hours outside of what is specified by municipal code, SCE would obtain variances as necessary from appropriate jurisdictions where the work would take place. SCE has established a Valley-Ivyglen Project toll-free information line (1-866-785-7057) and website link under Riverside County projects (<https://www.sce.com/valleyivyglen>). The information line is the designated public notification contact for the Valley-Ivyglen Subtransmission Project.

6.0 CONSTRUCTION EQUIPMENT AND PERSONNEL

The types of equipment and number of personnel needed to perform the components included under NTPR-2 are presented in the tables below.

6.1 Total and Peak Personnel

As shown in the tables, an average of 60 construction personnel is projected to be used to complete the work under NTPR-2. SCE estimates the peak number of personnel to be working on NTPR-2 components will be approximately 75.

Table 6.1-1a. Construction Equipment and Personnel Expected for Survey, Laydown Yard, Right of Way Clearing, Roads and Landings Construction, and Blasting.

Equipment	Horsepower	Fuel Type	Number on Site	Personnel
Survey				2
1/2 Ton Truck	300	Gas	4	
Laydown Yard Operation				3
1/2 Ton Truck	250	Gas	1	
12k Forklift	150	Diesel	1	

Valley-Ivyglen Project
NTPR-2

20k Forklift	150	Diesel	1	
Front Loader	294	Diesel	2	
Skidsteer	75	Diesel	1	
Water Truck	300	Diesel	1	
Office Generator	49	Gas	1	
Right of Way Clearing				4
Front Loader	294	Diesel	1	
Skidsteer	75	Diesel	1	
Excavator	302	Diesel	1	
Motor Grader	215	Diesel	1	
Track Loader	302	Diesel	1	
D8 Dozer	365	Diesel	1	
Front Loader	402	Diesel	1	
Skiploader	99	Diesel	4	
Dump Truck 4X4	380	Diesel	2	
Water Truck	300	Diesel	3	
Lowboy Truck/Trailer	350	Diesel	1	
6X6 Tractor	350	Diesel	1	
1-Ton Truck 4X4	300	Diesel	4	
1/2-Ton Truck 4X4	250	Gas	1	
Roads and Landing Work				10
Front Loader	294	Diesel	1	
Skid Steer	73	Diesel	1	
Motor Grader	215	Diesel	1	
D8 Dozer	365	Diesel	1	
Front Loader	402	Diesel	1	
Track Loader	230	Diesel	1	
Roller	148	Diesel	1	
Skiploader	99	Diesel	3	
Backhoe, 4x4	143	Diesel	1	
Dump Truck, 4x4	380	Diesel	2	
Water Truck	300	Diesel	4	
Lowboy Truck/Trailer	350	Diesel	1	
1/2 -Ton Truck, 4X4	250	Gas	1	
6X6 Tractor	350	Diesel	1	
1-Ton Truck, 4x4	300	Diesel	4	
Street Sweeper	75	Diesel	1	
Blasting				6
Front Loader	294	Diesel	1	
Excavator	302	Diesel	1	
Motor Grader	215	Diesel	1	
Front Loader	402	Diesel	1	
D10 Dozer	700	Diesel	1	
Mobil Crushing Unit	450	Diesel		
100k Excavator	370	Diesel	2	
Articulated Rock Truck	370	Diesel	2	
Atlas Copco Smart Rock Drill	225	Diesel	2	
MACK DM690S ANFO Loader	300	Diesel	1	
Dump Truck 4X4	380	Diesel	6	
Water Truck	300	Diesel	3	
6X6 Tractor	350	Diesel	1	
1-Ton Truck, 4x4	300	Diesel	4	
1/2 -Ton Truck, 4X4	250	Gas	1	

Table 6.1-1b. Construction Equipment and Personnel Expected for Guard Structure Installation and Removal.

Equipment	Horsepower	Fuel Type	Number on Site	Personnel
Guard Structure Installation and Removal				5
Digger Derrick	275	Diesel	2	
1-Ton Truck, 4x4	300	Diesel	4	

Table 6.1-1c. Construction Equipment and Personnel Expected for Subtransmission Installation.

Equipment	Horsepower	Fuel Type	Number on Site	Personnel
TSP Foundation Install				12
Lowboy Truck/Trailer	350	Diesel	1	
Attenuator Truck	250	Diesel	2	
1-1/4 Ton Truck	300	Diesel	5	
1/2 Ton Truck	250	Gas	6	
Concrete Pump Truck	380	Diesel	1	
Dump Truck	380	Diesel	2	
Concrete Truck	350	Diesel	6	
Tracked Crane	260	Diesel	1	
RT Crane	270	Diesel	1	
Skidsteer	90	Diesel	2	
Front Loader	280	Diesel	2	
Drill Rig	300	Diesel	2	
TSP Haul				4
6x6 Tractor/Trailer	350	Diesel	2	
1-Ton Truck	300	Diesel	2	
TSP Assembly				12
50 Ton Crane	300	Diesel	2	
80 Ton Crane	350	Diesel	1	
Bucket Truck	275	Diesel	2	
1-1/4 Ton Truck	300	Diesel	4	
TSP Erection				12
50 Ton Crane	300	Diesel	2	
80 Ton Crane	350	Diesel	1	
Bucket Truck	275	Diesel	2	
1-1/4 Ton Truck	300	Diesel	4	
LWSP / Wood Pole Haul				12
6x6 Tractor/Trailer	350	Diesel	2	
1-Ton Truck	300	Diesel	2	
LWSP / Wood Pole Assembly				12
50 Ton Crane	300	Diesel	2	
80 Ton Crane	350	Diesel	1	
Bucket Truck	275	Diesel	2	
1-1/4 Ton Truck	300	Diesel	4	
LWSP / Wood Pole Installation				12
50 Ton Crane	300	Diesel	2	
80 Ton Crane	350	Diesel	1	
Bucket Truck	275	Diesel	2	
1-1/4 Ton Truck	300	Diesel	4	
Install Conductor				12
1-1/4 Ton Truck	300	Diesel	6	
3 Drum Puller	140	Diesel	1	
Bucket Truck	300	Diesel	8	
V-Groove Puller	175	Diesel	1	
Air Compressor	50	Diesel	1	

Water Truck	300	Diesel	2	
Line Truck	275	Diesel	2	
Hughes 500 Helicopter	450	Jet A	1	
Overhead Installation (Fiber)				12
1-1/4 Ton Truck	300	Diesel	4	
Rope Puller	75	Diesel	1	
Bucket Truck	275	Diesel	4	
V-Groove Puller	175	Diesel	1	
Air Compressor	50	Diesel	1	
Water Truck	300	Diesel	2	
Distribution Relocation				12
Bucket Truck	275	Diesel	4	
1-1/4 Ton Truck	300	Diesel	3	
Water Truck	300	Diesel	1	

Table 6.1-1d. Construction Equipment and Personnel Expected for Infrastructure Removal Activities.

Equipment	Horsepower	Fuel Type	Number on Site	Personnel
Remove Conductors and Existing Wires				12
1-1/4 Ton Truck	300	Diesel	6	
3 Drum Puller	140	Diesel	1	
Bucket Truck	275	Diesel	8	
V-Groove Puller	175	Diesel	1	
Air Compressor	50	Diesel	1	
Water Truck	300	Diesel	2	
Line Truck	275	Diesel	2	
LWSP / Wood Pole Removal				12
50 Ton Crane	300	Diesel	2	
Bucket Truck	275	Diesel	2	
1-1/4 Ton Truck	300	Diesel	4	

Table 6.1-1e. Construction Equipment and Personnel Expected for Underground Scope.

Equipment	Horsepower	Fuel Type	Number on Site	Personnel
Duct Bank Installation				10
1-Ton Truck	300	Diesel	2	
1-1/4 Ton Truck	300	Diesel	2	
12k Forklift	150	Diesel	1	
Skidsteer	90	Diesel	1	
Backhoe, 4x4	99	Diesel	1	
Water Truck	300	Diesel	2	
Concrete Truck	350	Diesel	1	
Vault Installation				10
6x6 Tractor/Trailer	350	Diesel	4	
150 Ton Crane	400	Diesel	1	
Excavator	450	Diesel	1	
1-Ton Truck	300	Diesel	2	
1-1/4 Ton Truck	300	Diesel	1	
12k Forklift	150	Diesel	1	
Install Underground Cable				12
1-Ton Truck	300	Diesel	3	
1-1/4 Ton Truck	300	Diesel	2	
80 Ton Crane	350	Diesel	1	
Excavator	450	Diesel	1	
Backhoe, 4x4	99	Diesel	1	

Underground Distribution				6
1-1/4 Ton Truck	300	Diesel	3	
1-Ton Truck	300	Diesel	1	
Underground Puller	35	Diesel	1	
Backhoe, 4x4	99	Diesel	1	
12k Forklift	150	Diesel	1	
Underground Installation (Fiber)				6
1-1/4 Ton Truck	300	Diesel	2	
1-Ton Truck	300	Diesel	3	
Underground Puller	35	Diesel	1	
Duct Bank Installation (Fiber)				10
1-1/4 Ton Truck	300	Diesel	3	
1-Ton Truck	300	Diesel	1	
Underground Puller	35	Diesel	1	
Backhoe, 4x4	99	Diesel	1	
12k Forklift	150	Diesel	1	
Manhole Installation				6
1-1/4 Ton Truck	300	Diesel	3	
1-Ton Truck	300	Diesel	1	
35 Ton Crane	275	Diesel	1	

Table 6.1-1f. Construction Equipment and Personnel Expected for Restoration Scope.

Equipment	Horsepower	Fuel Type	Number on Site	Personnel
Restoration				5
Front Loader	294	Diesel	1	
Motor Grader	215	Diesel	2	
D8 Dozer	365	Diesel	1	
Front Loader	402	Diesel	1	
Roller	148	Diesel	1	
Backhoe, 4x4	99	Diesel	3	
Super Dump Truck	380	Diesel	2	
Dump Truck	380	Diesel	12	
Water Truck	300	Diesel	6	
6X6 Tractor	350	Diesel	1	
Street Sweeper	75	Diesel	1	
Lowboy Truck/Trailer	350	Diesel	1	
1-Ton Truck	300	Diesel	4	

7.0 BIOLOGICAL RESOURCE SURVEYS

The biological review for NTPR-2 is contained in Appendix D. Habitat impacts for specific vegetation types are described in the VIG Habitat Restoration and Revegetation Plan.

8.0 CULTURAL AND PALEONTOLOGICAL RESOURCE SURVEYS

The cultural resources assessment for NTPR-2 is contained in Appendix E. The paleontological resources assessment for NTPR-2 is contained in Appendix F.

9.0 MITIGATION MONITORING COMPLIANCE AND REPORTING PROGRAM IMPLEMENTATION

The Project Commitments/Mitigation Measures Implementation Table contained in Appendix C specifies how SCE will employ each measure during construction of NTPR-2 project components. The plans and reports required by the Project Commitments and MMs are contained in the appendices to this document.

10.0 JURISDICTIONAL PERMITS AND AGENCY APPROVALS

A checklist of permits and documentation applicable to NTPR-2 is provided in Table 10.0-1. Work components requiring jurisdictional waters permits are excluded from NTPR-2 and will be included in a future NTPR.

Table 10.0-1 Permits and Documentation Associated with VIG NTPR-2

Permits/Documentation	Applicable to NTP?	Comments
General Permits		
City Permits	X	City of Lake Elsinore
County Permits	X	Riverside County
Electrical Permit	--	Not applicable
Grading Permit	X	Riverside County
Caltrans Permits	X	I-15 crossings
Aqueduct Permits	--	Not applicable
Railroad Permits	--	Not applicable
Utility Permit	--	Not applicable
Other Permits and Documentation		
Federal Aviation Administration (FAA) Form 7460(1) Notice of Proposed Construction	X	
FAA Form 7480-1 Notice of Landing Area Proposal	--	Not applicable. Landing zones will not be constructed on Right of Way
Permit for Clean Water Act Section 401 Water Quality Certification/Porter Cologne Act	--	Not applicable
Permit for Clean Water Act 404 Nationwide Permit	--	Not applicable
California Dept. of Fish and Wildlife (CDFW) Sec 1602 Streambed Alteration Agreement	--	Not Applicable
Consultation agreement under Section 7 of the Endangered Species Act	--	Federal Endangered Species Act consultation was fulfilled as part of WR-MSHCP, and SKR HCP process.
CDFW Sec 2081 (B) and (C) Endangered Species Permit	--	California Endangered Species Act consultation was fulfilled as part of WR-MSHCP, and SKR HCP process.
National Pollution Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Association with Construction Activities including Notice of Intent (NOI)/Stormwater Pollution Prevention Plan	X	Prior to construction, a traditional construction project SWPPP will be prepared for the Concordia yard and a Linear Underground/Overhead Project (LUP) SWPPP will be prepared for the project.
California or U.S. EPA Hazardous Waste Generator Identification Number Application	X	Temporary Identification Number for generation of used oil may be needed
Certified Unified Program Agency (CUPA) Permit (hazardous substances)	X	A Hazardous Material Business Plan (HMBP) may be required if substances greater than threshold quantities are stored onsite
Clean Air Act General Conformity Determination	--	Not applicable
Air Quality Permits for portable engines greater than 50 hp not registered under the CARB Portable Engine Registration Program	--	Not anticipated. Will be acquired if needed.
Portable Engine Registration for specified non-mobile portable engines	--	Not anticipated. Will be acquired if needed.
Other Air Quality Permit(s)	--	Not applicable
Caltrans Heliport Site Approval Permit DOA-0201	--	Not applicable

Permits/Documentation	Applicable to NTP?	Comments
FAA Part 133 Congested Area Plan (CAP)	X	A CAP would be prepared for each of the I-15 crossings and receive approval by the FAA prior to commencement of work
Licenses for new microwave paths – Federal Communication Center (FCC)	--	Not applicable
Permits for new microwave towers – Federal Aviation Administration (FAA)	--	Not applicable
Construction permit for construction involving trenches 5 feet or deeper into which a person is required to descend (OSHA)	X	OSHA

11.0 PRECONSTRUCTION COMPLIANCE ACTIVITIES OUTSTANDING

As stated earlier, SCE will implement all applicable Project Commitments (PCs) and Mitigation Measures (MMs) as identified in the Valley-Ivyglen Subtransmission Project FEIR. However, some preconstruction compliance activities and items contained in Appendix C, Mitigation Monitoring Compliance Reporting Program Implementation Table, to NTPR-2 have not been completed yet, and may not be completed prior to issuance of the NTP; these are presented in Table 11.0-1 below.

Table 11.0-1 State of Outstanding Preconstruction Compliance Activities and Items

PC or MM	Title	Status
PC B	Worker Environmental Awareness Plan	Project personnel will receive WEAP training prior to start of construction but after issuance of NTP.
MM AES-4	Lake Street Pole Placement and Landscaping	Proposed colors, finishes, and textures of poles to be used along Lake Street will be submitted to the CPUC for approval prior to procurement, but after issuance of NTP. A landscape design for Lake Street and evidence of coordination with the City of Lake Elsinore will be submitted to the CPUC prior to pole erection along Lake Street, but after issuance of NTP.
MM AQ-1	Minimize NOX and PM Emissions from Off-Road Diesel Powered Construction Equipment	A copy of the certified tier specification, best available control technology documentation, and/or CARB or SCAQMD operating permit for each piece of construction equipment, as applicable, will be provided to the CPUC at the time the equipment is mobilized.
MM AQ-2	Oxides of Nitrogen (NOX) Credits	Prior to construction, but after issuance of NTP, documentation of purchase of the required RTCs to the SCAQMD will be provided to the CPUC
MM BR-2	Preconstruction Surveys	Preconstruction surveys will be conducted prior to construction, but after issuance of NTP.
MM BR-5	California Gnatcatcher Protection measures	Preconstruction surveys will be conducted prior to construction, but after issuance of NTP.
MM BR-11	Migratory Birds and Raptors Impact Reduction Measures	Preconstruction surveys will be conducted prior to construction in the appropriate breeding season, but after issuance of NTP.
MM BR-12	Burrowing Owl Impact Reduction Measures	Results for preconstruction surveys for BUOW will be provided to the CPUC within 14 days of the start of construction.
MM HZ-3	Contacting Affected Landowners Regarding Underground Facilities	Landowners will be contacted regarding underground facilities prior to construction, but some landowners may be contacted after issuance of NTP.
MM WQ-1	Blasting Plan and Best Management Practices	Blasting is not anticipated at this time. If deemed necessary at a later date, a Blasting Plan will be submitted to and approved by the CPUC prior to the start of blasting, but after issuance of NTP.

Valley-Ivyglen Project
NTPR-2

MM NV-2	Blasting Vibration Control Measures	Blasting is not anticipated at this time. If deemed necessary at a later date, a blasting mitigation and monitoring plan will be submitted to the CPUC for review and approval at least 30 days prior to the start of blasting, but after issuance of NTP.
MM TT-4	Helicopter Lift Plan	Helicopter Lift Plan (HLP) will be provided to the CPUC prior to commencing helicopter operations, including any necessary coordination with the FAA.
MM TT-5	FAA No-Hazard Determination	SCE shall provide FAA documentation to the CPUC prior to the use of equipment or installation of structures that require notification.

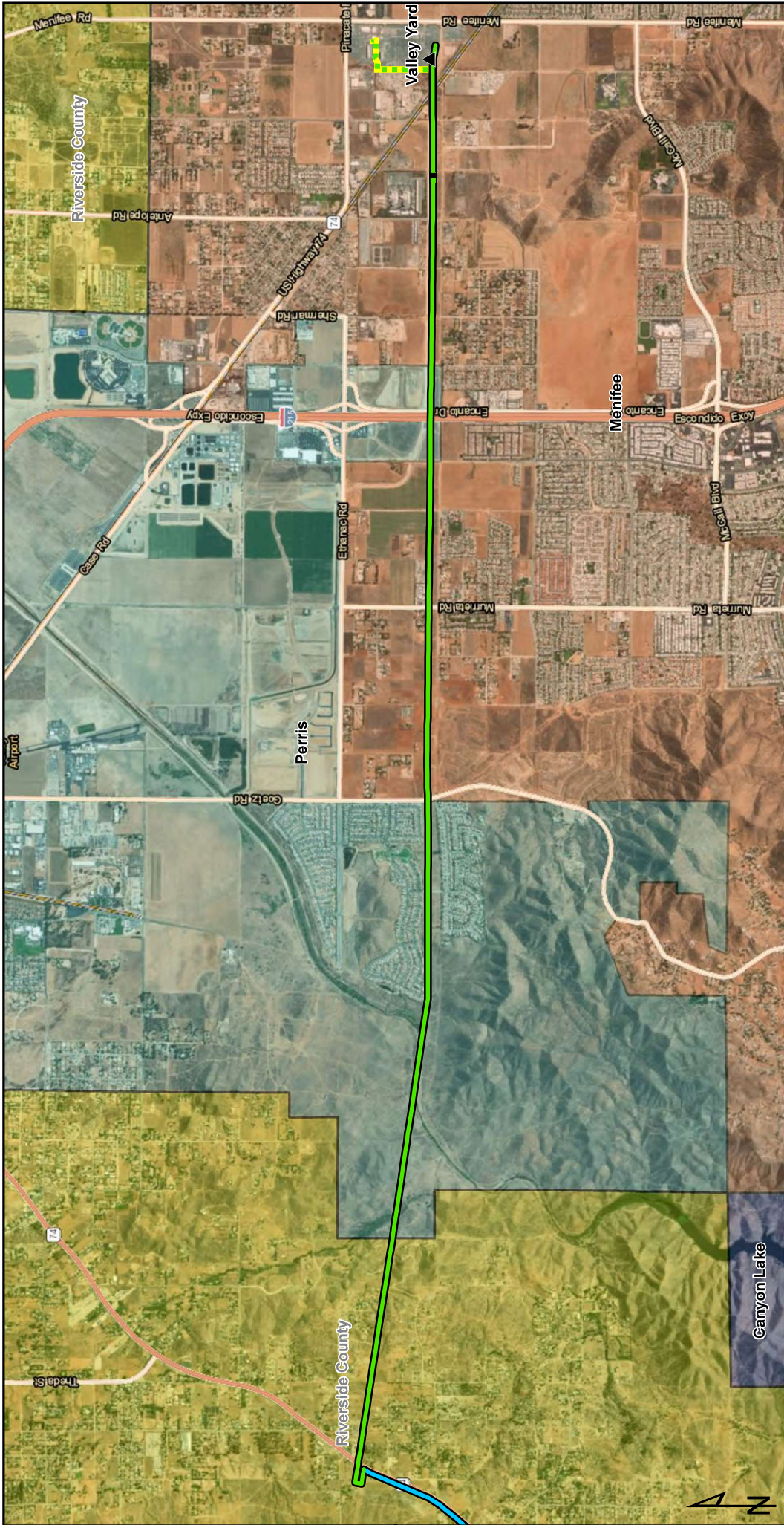
Appendix A

Project Schedule

Construction Schedule NTPR-2				
Segment	Activity	Start	Finish	Duration (Days)
VIG4-VIG8	Mobilization	07/22/2020	07/25/2020	14
VIG4	Access roads, foundation installation, structure installation, wire stringing	10/23/2020	09/18/2021	330
VIG5	Access roads, foundation installation, structure installation, wire stringing	10/23/2020	11/17/2021	390
VIG6	Access roads, foundation installation, structure installation, wire stringing	11/05/2020	08/17/2021	285
VIG7	Access roads, foundation installation, structure installation, wire stringing	09/12/2020	04/10/2021	210
VIG8	Foundation installation, structure installation, wire stringing	09/05/2020	07/02/2021	300
VIG4-VIG8	Restoration	06/11/2021	03/01/2022	263

Appendix B

Construction Location Maps



Valley - Ivyglen



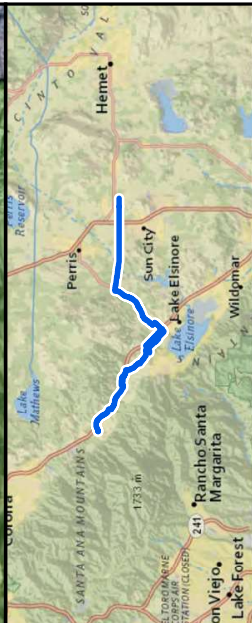
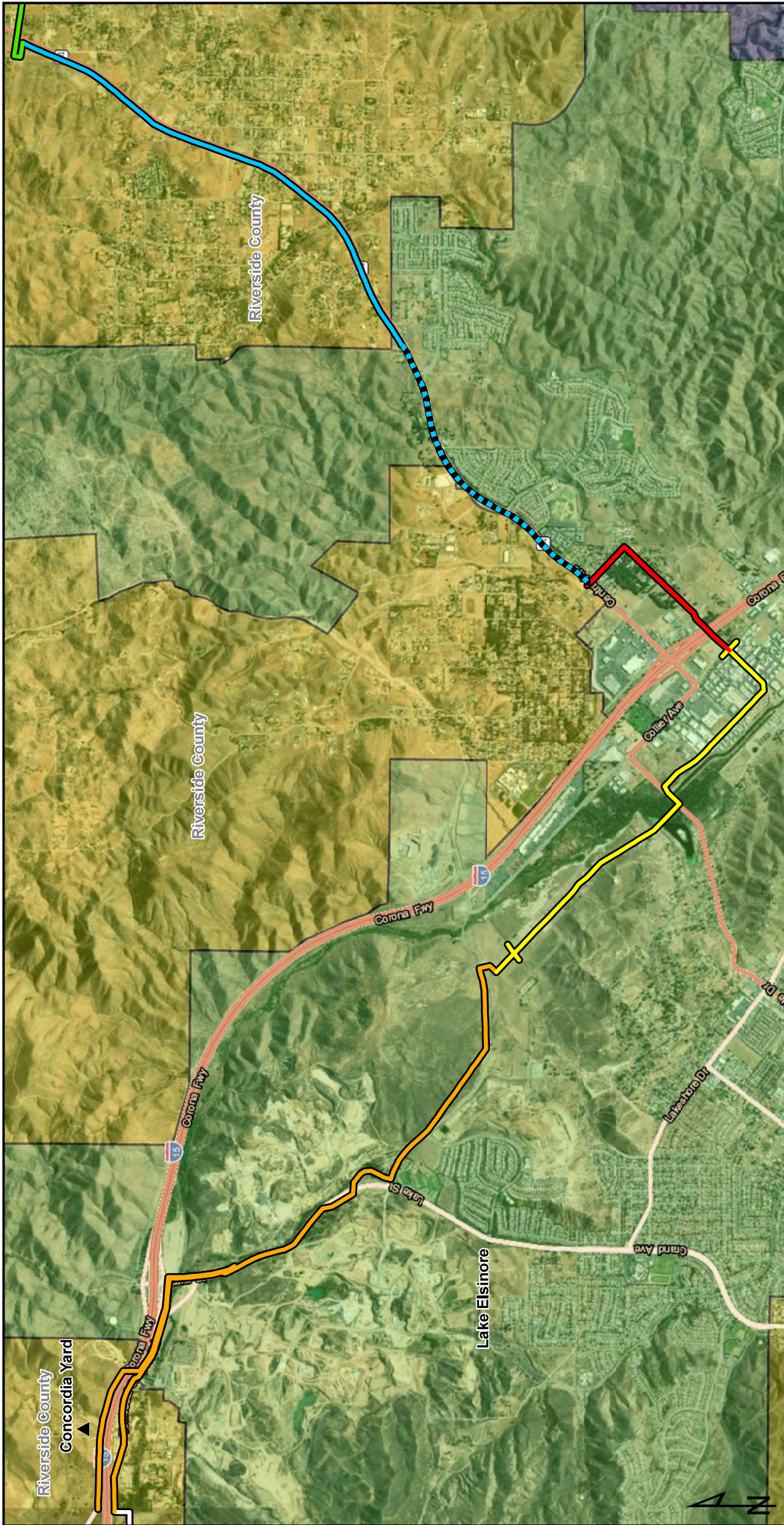
Miles

1:30,000

Page: 1 of 3



Underground		Overhead	
Segment 1		Segment 1	
Segment 2		Segment 2	
Segment 8		Segment 3	
		Segment 4	
		Segment 5	
		Segment 6	
		Segment 7	
		Segment 8	
Telcom			
Segment 1			
Segment 8			



Valley - Ivyglen



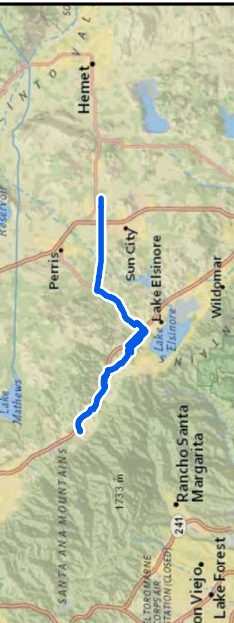
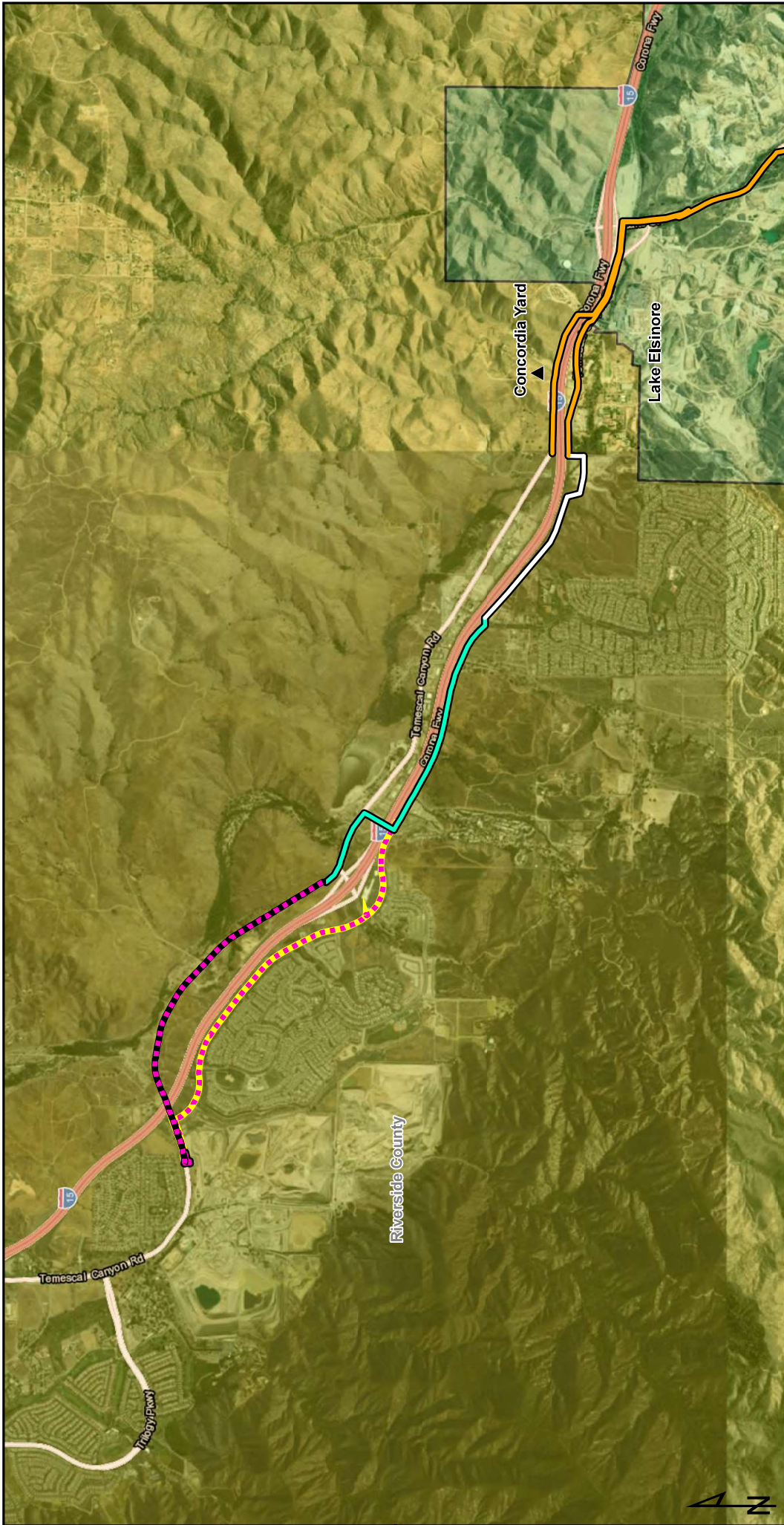
Miles

1:30,000

Page: 1 of 3



- | | | | |
|--------------------|-----------|-----------|-----------|
| Underground | Segment 1 | Segment 2 | Segment 8 |
| Overhead | Segment 1 | Segment 2 | Segment 3 |
| | Segment 4 | Segment 5 | Segment 6 |
| Telcom | Segment 1 | Segment 2 | Segment 3 |
| | Segment 4 | Segment 5 | Segment 6 |
| | Segment 7 | Segment 8 | Segment 8 |



Valley - Ivyglen

0 1
Miles

1:30,000

Page: 1 of 3



Underground	Segment 1	Segment 5
Segment 2	Segment 8	
Telcom	Segment 1	Segment 8
Segment 1	Segment 8	
Overhead	Segment 1	Segment 5
Segment 2	Segment 8	
Segment 3	Segment 4	
Segment 4	Segment 7	
Segment 5	Segment 6	
Segment 6	Segment 8	
Segment 7		
Segment 8		

Appendix C

Mitigation Monitoring Compliance Program Implementation Table

Mitigation Monitoring Compliance Reporting Program Implementation Table		Applicable to NTP?	Comments
Commitment / Mitigation Measure (MIM)	Item		
	PROJECT COMMITMENTS / MITIGATION MEASURES		
	Project Commitments		
Project Commitment B	<p>Worker Environmental Awareness Plan. Prior to construction of the proposed projects, a Worker Environmental Awareness Plan would be developed based on final engineering designs, the results of preconstruction surveys, project commitments, and mitigation measures imposed by the California Public Utilities Commission. A presentation would be prepared by the applicant and shown to all site workers prior to their start of work. A record of all trained personnel would be kept with the construction foreman. In addition to the instruction for compliance with any site-specific biological or cultural resource protective measures and project mitigation measures, all construction personnel would also receive the following:</p> <ul style="list-style-type: none"> • A list of phone numbers of the applicant's personnel with the (archeologist, biologist, environmental coordinator, and regional spill response coordinator); • Instruction on the South Coast Air Quality Management District Rule 403 for control of dust; • Instruction on what typical cultural resources look like, and if discovered during construction, to suspend work in the vicinity of any find and contact the site foreman and archeologist or environmental coordinator; • Instruction on washing the wheels, tracks, and underbodies of construction vehicles to minimize the spread of invasive species; • Instruction on individual responsibilities under the Clean Water Act, the Storm Water Pollution Prevention <p>Plan for the projects, site-specific Best Management Practices, and the location of Material Safety Data Sheets for the projects;</p> <ul style="list-style-type: none"> • Instructions to notify the foreman and regional spill response coordinator in case of hazardous materials spills and leaks from equipment or upon the discovery of soil or groundwater contamination; • A copy of the truck routes to be used for material delivery; and • Instruction that noncompliance with any laws, rules, regulations, or mitigation measures could result in being barred from participating in any remaining construction activities associated with the proposed projects. 	X	SCE and its contractors will implement this commitment as defined.
Project Commitment C	<p>Raptor Protection on Power Lines. The applicant would design all 115-kV subtransmission structures consistent with the Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006 (APLIC 2006).</p>	X	SCE and its contractors will implement this measure as defined.
Project Commitment D	<p>Habitat Restoration and Revegetation Plan. With input from the appropriate resource agencies, the applicant would develop and implement a Habitat Restoration and Revegetation Plan to restore temporarily impacted areas where construction of the projects would be unable to avoid impacts on native vegetation and sensitive resources, such as wetlands, wetland buffer areas, riparian habitat, and other sensitive natural communities. The applicant would restore all temporarily impacted areas disturbed during construction of the projects, including staging areas and pull, tension, and splicing</p>	X	Temporarily impacted project areas will be restored and revegetated per the approved Habitat Restoration and Revegetation Plan.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<p>sites, to as close to pre-construction conditions as possible, or to the conditions agreed upon between the applicant and landowner. Replanting and reseeded would be conducted under the direction the applicant or contract biologists. If revegetation would occur on private property, revegetation conditions would be part of the agreement between the applicant and the landowner.</p> <p>Grading Plan. SCE shall consult with Riverside County regarding the grading plans for construction and operation of the proposed projects. Storm water improvements shall be designed to maintain a discharge of storm water runoff consistent with the characteristics of storm water runoff presently discharged from project areas including the Alberhill Substation site. Measures included in the plans shall minimize adverse effects on existing or planned storm water drainage systems. Ground surface improvements installed at the site pursuant to the plans shall be designed to minimize discharge of materials that would contribute to a violation of water quality standards or waste discharge requirements. The final grading design shall include features that would minimize erosion and siltation both onsite and offsite. In addition, the final grading (and drainage) design shall be based on the results of the geotechnical study and soil evaluation for the substation site (Project Commitment F).</p>	X	SCE and its contractors will implement this measure as defined. The requirements related to the Alberhill System Project are not part of the Valley-Ivyglen Project scope.
Project Commitment E			
Project Commitment F	<p>Geotechnical Study, Soil Testing, and Seismic Design Standards. Prior to the start of construction, the applicant shall conduct geotechnical and hydrologic studies and field investigations of the Alberhill Substation site, 500-kV transmission line routes, all 115-kV subtransmission line routes, and all telecommunications line routes. The studies shall include an evaluation of the depth to the water table, liquefaction potential, physical properties of subsurface soils, soil resistivity, and slope stability (landslide susceptibility). The studies shall include soil boring and laboratory testing to determine the engineering properties of soils, characterize soils and underlying bedrock units, characterize groundwater conditions, and evaluate faulting and seismicity risk. Soil samples shall be collected and analyzed for common contaminants and the presence of hazardous materials. If chemicals are detected in the soil samples at concentrations above acceptable threshold levels, the applicant shall avoid the above threshold soil or work with the property owner to remove the above threshold soil. The results of this study shall be applied to final engineering designs for the projects. The information collected shall be used to determine final tubular steel pole foundation designs. In addition, the applicant shall design Alberhill Substation consistent with the applicable federal, state, and local codes, including the Institute of Electrical and Electronic Engineers 693 Standard, Recommended Practices for Seismic Design of Substations.</p>	X	SCE and its contractors will implement this measure as defined. The requirements related to the Alberhill System Project are not part of the Valley-Ivyglen Project scope.
Project Commitment G	<p>Aircraft Flight Path Safety Provisions and Consultations. Prior to construction, the applicant shall consult with the Federal Aviation Administration and ensure the filing of forms and associated specifications per the requirements of Federal Aviation Regulations Part 77 (Objects Affecting Navigable Airspace). The applicant shall review all recommendations and/or determinations from the</p>	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table		
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?
	<p>FAA and mark and/or light the FAA recommended components where the applicant finds they are reasonable and feasible.</p> <p>Noise Control and Notification. The applicant shall implement the following noise control measures for the proposed projects:</p> <ul style="list-style-type: none"> All construction and general maintenance activities, except in an emergency or within enclosed structures which reduce the noise to less than significant, shall be limited to the hours of 7 a.m. to 7 p.m. and prohibited on Sundays and all legally proclaimed holidays recognized by the local jurisdictions. In the event that construction activities are necessary on days or hours outside of what is specified by the local ordinance, SCE would provide advance notification, including a general description of the work to be performed, location and hours of construction anticipated, to the CPUC, the local jurisdiction, and residents within 300 feet of the anticipated work, as well route all construction traffic away from residences, schools and recreational facilities to the extent feasible. Construction equipment shall use noise reduction features (e.g., mufflers and engine shrouds) that are no less effective than those originally installed by the manufacturer. Construction traffic shall be routed away from residences and schools, where feasible. Unnecessary construction vehicle use and idling time shall be minimized to the extent feasible. The ability to limit construction vehicle idling time is dependent upon the sequence of construction activities and when and where vehicles are needed or staged. A "common sense" approach to vehicle use shall be applied: if a vehicle is not required for use immediately or continuously for construction activities, its engine should be shut off. Note: certain equipment, such as large diesel-powered vehicles require extended idling for warm-up and repetitive construction tasks. The applicant will notify all receptors within 300 feet of construction of the potential to experience significant noise levels during construction. During construction, the applicant will use a temporary noise barrier that blocks the line of sight between the construction area and the residence in areas where sensitive receptors would be subjected to significant noise impacts. The applicant would shield small stationary equipment with portable barriers within 100 feet of residences, where feasible. The applicant would minimize engine idling and turn off engines when not in use. Where blasting is required the applicant would conduct additional preblast notification and coordination with residents, utilities, and others that may be affected by blasting operations. 	X
		SCE and its contractors will implement this measure as defined and in compliance with the approved Noise Control Plan.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
Project Commitment I	<p>Agricultural Uses. Existing agricultural and grazing uses within the existing and proposed ROW areas shall be allowed to continue during operation of the proposed projects. In addition, the applicant shall coordinate construction and maintenance activities with agricultural landowners to avoid interference with grazing and agricultural activities unless such coordination is not possible due to emergency circumstances.</p>	X	SCE and its contractors will implement this measure for Valley-Ivyglen as defined.
Project Commitment J	<p>Air Emissions Controls. The applicant would implement the following fugitive dust control measures for the Valley-Ivyglen Subtransmission Project:</p> <ul style="list-style-type: none"> • Water three times per day or as needed during excavation, bulldozing, scraping, and grading activities, in order to ensure compliance with SCAQMD Rule 403, Fugitive Dust. • Water storage piles twice a day, resulting in a 50% fugitive dust control efficiency. • Limit vehicle speeds on unpaved roads to 15 miles per hour, per SCAQMD's Table XI-A, Mitigation Measure Examples: Fugitive Dust from Construction and Demolition (Rev. 4/2007). • <p>The applicant would implement the following fugitive dust control measures for the Alberhill System Project:</p> <ul style="list-style-type: none"> • Water three times per day or as needed during excavation, bulldozing, scraping, and grading activities, in order to ensure compliance with SCAQMD Rule 403, Fugitive Dust. • Water storage piles twice a day, resulting in a 50% fugitive dust control efficiency. • Limit vehicle speeds on unpaved roads to 15 miles per hour, per SCAQMD's Table XI-A, Mitigation Measure Examples; Fugitive Dust from Construction and Demolition (Rev. 4/2007). 	X	SCE and its contractors will implement this measure for Valley-Ivyglen as defined and in compliance with the approved Dust Control Plan. The requirements related to the Alberhill System Project are not part of the Valley-Ivyglen Project scope.
Project Commitment L	<p>San Diego Ambrosia. During construction, ground-disturbing activities including parking and staging of equipment and vehicles off-road within 50 feet of known populations of San Diego Ambrosia, the following will be implemented: Work should occur in the late summer/early fall (August to October) to avoid: 1) the San Diego ambrosia blooming season and 2) wet soil conditions during the rainy season when work could result in damage to the growing plant/rhizomes. If work, such as pole brushing, is required at other times, a biological monitor will be present to locate the San Diego ambrosia for avoidance. As a general rule, no work is allowed within 72 hours following a rain event but dry site conditions will be verified by crews prior to initiation of work. If equipment and vehicles need to be situated over the plant population, metal grates or plywood sheets (depending on the size of equipment) will be placed over the plants temporarily. A biological monitor will be present during ground disturbing activities to ensure avoidance and minimization of impacts to San Diego Ambrosia. (Formerly Bio Project Commitment I; changed in FEIR Final Errata #2.)</p>	X	SCE and its contractors will implement this measure for Valley-Ivyglen as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
Project Commitment M	AR Land. Temporary impacts to MSHCP ARLs will be restored to greatest extent practicable using species present prior to disturbance. Should any permanent impacts to ARL result during construction, the Applicant will dedicate biologically equivalent or superior land to the MSHCP. The Applicant will prepare an ARL equivalency analysis to be included as part of the MSHCP PSE submittal. This equivalency analysis will compare the potential effects on the ARL to the benefits of proposed replacement land, including compensation for potentially lost conservation functions and values. The analysis will consider specific project design features, siting and design, and MSHCP BMPs, as well as address effects on covered species and habitats, core areas, linkages, constrained linkages, MSHCP Conservation Area configuration and management, and ecotones. The replacement land ratio is anticipated to be not less than 2:1 within MSHCP Core 1 but will ultimately be determined through MSHCP consistency findings made by RCA, CDFW and USFWS concurrence as part of the MSHCP PSE process. (Formerly Bio Project Commitment J; changed in FEIR Final Errata #2.)	X	SCE and its contractors will implement this measure as defined and in accordance with the approved Habitat Restoration and Revegetation Plan.
Project Commitment N	Wildlife Movement. In the event that retaining walls or some other structural method of slope stabilization would be needed, walls will be sited, designed, and oriented to minimize impacts to movement of native resident wildlife species and established wildlife corridors, in coordination with the RCA, USFWS, and CDFW. (Formerly Bio Project Commitment K; changed in FEIR Final Errata #2.)	X	SCE and its contractors will implement this measure as defined.
	Aesthetics		
MM AES-1	Staging Area. Staging areas will be screened with perimeter screening fences at least 8 feet tall. Perimeter screening fences will be dark in color and covered with a dark colored (e.g., dark green, brown, or black) fabric or other material that provides at least 50 percent screening.	X	SCE and its contractors will implement this measure as defined.
MM AES-2	Segment VIG2 Wood Poles and Undergrounding. 115-kV Segment VIG2 shall be placed on wood poles with the exception of an approximately 1.5-mile section that will be placed underground between Crumpton Road and Conard Avenue.	--	Segment VIG2 included in NTPR-1
MM AES-3	Glare Reduction. To reduce glare from components of the project, reduce color contrast between the project components and the surrounding landscape, and visually unify the project components with the surrounding landscape, the applicant shall use non-specular conductor and guy wire for all powerlines installed as part of the projects. Only use lightweight steel, hybrid, guy, and TSPs and LSTs with a galvanized steel that has been treated to create a dulled finish.	X	SCE and its contractors will implement this measure as defined.
MM AES-4	Lake Street Pole Placement and Landscaping. Poles installed along Lake Street for 115-kV Segment VIG5 and for the Fogarty-Ivyglen 115-kV Subtransmission line shall adhere to the following requirements: <ul style="list-style-type: none"> • Poles shall be set back an average of 20 feet from Lake Street's edge of pavement. 	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<ul style="list-style-type: none"> Wood or galvanized steel poles with surface coatings with appropriate colors, finishes and textures to most effectively blend the structures with the visible backdrop landscape shall be used along Lake Street. The applicant shall submit preferences for specific colors, finishes, and textures to the CPUC for approval. SCE shall plant trees with a maximum height and spread of 25 feet at maturity and a minimum height of 10 feet at planting, large shrubs, and other plants within the setback area between the subtransmission alignment and the Lake Street edge of pavement along the segment. Plantings shall be placed at intervals and in locations to maximize screening of lower portions of the transmission structures in views from the road. Plantings shall be drought tolerant. SCE shall coordinate with the City of Lake Elsinore prior to finalizing landscaping design. SCE shall submit the design to the CPUC, along with evidence that SCE has coordinated with the City of Lake Elsinore, prior to pole erection along Lake Street. 		
MM AES-5	<p>Night Lighting During Construction. To minimize the effect on any nearby sensitive receptors, lighting for construction activities, staging areas, and maintenance activities will be the minimum necessary to ensure safety and security for nighttime activities. All lighting used for nighttime construction activities will be oriented downward and shielded to eliminate off-site light spill at times when the lighting is in use. Any new safety and security lighting at staging areas or other areas established for long-duration construction activities, such as laydown areas, will be motion-activated or use timers to reduce impacts of nighttime lighting.</p>	X	SCE and its contractors will implement this measure as defined.
	<p>Air Quality</p>		
MM AQ-1	<p>Minimize NOX and PM Emissions from Off-Road Diesel Powered Construction Equipment. To the extent available, the applicant shall utilize off-road diesel-powered construction equipment with engines greater than 150 horsepower that comply with Tier 4 interim or Tier 4 road emission standards (Tier 4 Standards). In the event that equipment with a Tier 4 Standards compliant engine is not available, that equipment shall be operated with tailpipe retrofit controls that reduce NOX and PM to no more than Tier 3 emission standards (Tier 3 Standards) levels.</p> <p>Equipment with a non-Tier 4 Standards compliant engine shall be utilized only when the applicant has made an unsuccessful good faith effort to locate equipment with a Tier 4 Standards compliant engine in the Valley-Ivyglen Project vicinity (defined as within 200 miles of the applicable project site). Each such good faith effort shall be documented with written correspondence (or signed statement and electronic mail) by the appropriate construction contractor, along with written correspondence from at least two construction equipment rental firms within the defined vicinity confirming the unavailability of equipment with a Tier 4 Standards compliant engine.</p>	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<p>The applicant shall make available to the California Public Utilities Commission (CPUC) a copy of the certified tier specification, best available control technology documentation, and/or CARB or SCAQMD operating permit for each piece of construction equipment, as applicable, at the time the equipment is mobilized.</p> <p>In addition, the applicant shall:</p> <ul style="list-style-type: none"> • Maintain construction equipment according to manufacturing specifications and use low-emissions equipment; • Reduce emissions of PM and other pollutants by using, whenever feasible, alternative clean fuel technology to power vehicles and equipment instead of gasoline- or diesel-powered engines (e.g., electric, hydrogen fuel cell, propane, natural gas, or compressed natural gas-powered equipment with oxidation catalysts); • Ensure that all construction equipment is properly tuned and maintained and shut off when not in direct use; • Prohibit engine tampering to increase horsepower; • Locate engines, motors, and equipment as far as possible from residential areas and other sensitive receptors, such as schools, daycare centers, and hospitals; • Encourage carpooling to and from staging yards to construction sites to minimize private vehicle use; • Minimize construction-related transport of workers and equipment including trucks; and • Require that on-road vehicles utilized during construction meet CARB fleet regulations. 		
MM AQ-2	<p>Oxides of Nitrogen (NOX) Credits. The remaining emissions of NOX resulting from construction of the proposed projects shall be mitigated through the purchase of Regional Clean Air Incentive Market Trading Credits (RTCs), Mobile Source Emission Reduction Credits (MSERCs), or a combination of RTCs and MSERCs for every pound of NOX in excess of the SCAQMD regional significance threshold of 100 pounds per day, as measured per project. The total amount of NOX RTCs to be purchased shall be calculated once the construction schedules for each project are finalized. The applicant shall purchase and submit documentation of purchase of the required RTCs to the SCAQMD prior to the start of construction of each project. The applicant shall also track actual daily emissions during construction of each project according to a monitoring plan, which shall require keeping records of equipment and vehicle usage for each project.</p>	X	SCE and its contractors will implement this measure as defined.
MM AQ-3	<p>Dust Control Plan. The applicant shall prepare a Dust Control Plan based on final engineering and pursuant to Rule 403 of the SCAQMD. The applicant shall submit the Plan to the CPUC prior to commencement of ground disturbing activities.</p>	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
MM AQ-4	Odor Reduction at Staging Yard VIG13. At Staging Yard VIG13, heavy equipment use shall be conducted at least 36 feet away from the Southern California Online Academy property.	--	SCE and its contractors will not use the staging yard VIG13.
Biological Resources			
MM BR-1	Limit Construction to Designated Areas and Avoid Riparian, Aquatic, and Wetland Areas. Vehicular traffic (including movement of all equipment) shall be restricted to approved access roads and established construction areas shown in Figure 2.6 of the EIR. These areas shall be delineated in the field with flagging and signage. If disturbance is required outside the established construction areas, CPUC notification and approval shall be required. Sensitive resources such as waterbodies, oak trees, and special status plant populations shall be clearly marked for avoidance with flagging and signage. Nighttime lighting, if necessary adjacent to aquatic areas, shall be shielded away from these areas to prevent impacts on aquatic wildlife.	X	SCE and its contractors will implement this measure as defined.
MM BR-2	Preconstruction Surveys. Qualified biologists shall conduct preconstruction surveys within two weeks of the start of construction in any given project construction area. Surveyors shall focus on areas proposed for vegetation removal or ground disturbance that are within habitat that a qualified biologist has deemed suitable for sensitive species. As part of preconstruction surveys, the composition of the vegetation community shall be surveyed to establish baseline conditions prior to construction and to guide post-construction restoration efforts. The surveys shall be conducted to determine the presence of special status plants, noxious weeds, and all wildlife species for the purpose of preventing direct loss of vegetation and wildlife and the spread of noxious plant species. Preconstruction surveys shall be performed for each discrete work area prior to the start of ground disturbance, or if work has lapsed for longer than 30 days. Biologists shall document survey results in a daily logbook or report.	X	SCE and its contractors will implement this measure as defined.
MM BR-3	Biological Monitoring During Construction. In areas where sensitive resources may be impacted by construction activities, a qualified biological monitor shall be present during construction activities. The monitor shall have the authority to temporarily stop work that he or she determines to be threatening to a special status wildlife or plant species or nesting bird. The monitor shall determine appropriate action, and work will resume once the monitor determines there is no longer a threat to the special status species or approval has been obtained from the appropriate wildlife agencies or CPUC. Biologists shall document monitoring observations in a daily logbook.	X	SCE and its contractors will implement this measure as defined.
MM BR-4	Limit Removal of Native Vegetation Communities and Trees. The removal of native vegetation and trees shall be limited to the minimum practicable area required for construction and operations. Grading, grubbing, graveling, or paving shall only occur where required for construction and operations. The applicant shall use temporary staging areas in a way that facilitates post-construction restoration, and	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	shall restore these areas to as close to pre-construction conditions as possible, or to the conditions agreed upon between the applicant and landowner.		
MM BR-5	<p>California Gnatcatcher Protection Measures. In accordance with the MSHCP, removal of Riversidean sage scrub habitat will not occur during the coastal California gnatcatcher breeding season. (February 15 to August 15). Should nesting coastal California gnatcatcher be observed during preconstruction surveys, outside of the breeding season, vegetation removal and other construction-related disturbance shall not commence within the applicable nest buffer area, as identified in the projects' Nesting Bird Management Plan, until the nest is determined to be inactive.</p>	X	SCE and its contractors will implement this measure as defined.
MM BR-6	<p>Oak Tree Protection Measures. This measure applies to oak trees in all project areas. Preventive measures shall be taken during construction activities to minimize impacts in the protected zone of each oak tree. The protected zone commences at a point 5 feet outside the dripline and extends inward to the trunk of the tree. All work conducted in the protected zone of oak trees shall be performed using hand implements and in the presence of a certified arborist. If it is determined that oak tree removal is necessary, the applicant shall relocate oak trees to a place outside of the area of anticipated impacts under the direction of the certified arborist.</p> <p>If the applicant cannot feasibly relocate oak trees that are removed, 1-gallon oak trees shall be planted at a 12:1 ratio within the appropriate habitat to replace removed trees. These replacement trees shall be indigenous coast live oak trees that have been grown in a natural form (no topping or street tree forming).</p> <p>The applicant shall be responsible for monitoring and maintaining the relocated or replacement trees for a minimum of two years (to include at least two complete California rainy seasons, here defined as the period of the year from November – May).</p> <p>In addition, the following minimization measures shall be implemented under the direction of the certified arborist:</p> <ul style="list-style-type: none"> • Equipment, materials, and vehicles shall not be stored, parked, or operated within the protected zone of an oak tree, except on sites approved for this use by a certified arborist. • Removal of the natural leaf mulch within the protected zone of oak trees is prohibited except where absolutely necessary. • All trees not approved for removal shall be fenced or flagged for avoidance and to designate the protected zone. • Any pruning, including removal of dead wood, shall be performed in compliance with the latest American National Standards Institute pruning standards by a certified arborist (or certified tree worker). 	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<ul style="list-style-type: none"> Any root-pruning required within the protected zone of an oak shall be limited to the minimum amount necessary. All root-pruning shall consist of clean, 90-degree angle cuts utilizing sharp hand tools. Any major roots (2 inches or greater in diameter) encountered shall be preserved to the extent possible and wrapped in moist burlap until the soil is replaced. Soil shall be replaced around preserved roots as soon as possible. <p>To evaluate whether or not this type of mitigation is successful over the long-term, the relocated oak trees and replacement oaks will be revisited by a certified arborist in the fifth, tenth, and fifteenth years after relocation or planting to assess the survival/mortality rate of these oaks, and to evaluate the health of the surviving individuals. The applicant will prepare an initial report on the implementation of this measure after the second year of monitoring and maintenance has been completed. A Final Report will be prepared after the Year-15 assessment has been carried out; the Final Report will be submitted to the CPUC, and copies shall be sent to the USFWS (Palm Springs Fish and Wildlife Office), to the CDFW (Inland/Desert Regional Office), and to the California Native Plant Society's Conservation Program staff.</p>		
MM BR-7	<p>Habitat Restoration and Revegetation Plan Requirements. Pursuant to Project Commitment D, the applicant shall develop a Habitat Restoration and Revegetation Plan to address ground disturbance in all project areas. In addition to including the provisions set forth in Project Commitment D, the Habitat Restoration and Revegetation Plan shall detail topsoil segregation and conservation methodology; restoration of special status plant species habitat; vegetation removal and revegetation methods, including seed mixes, rates, and transplants; criteria to monitor and evaluate revegetation success; and alternative restoration and revegetation methods in the event that the revegetation success criteria are not initially reached.</p> <p>The applicant shall implement the Habitat Restoration and Revegetation Plan until the restoration success criteria are achieved. Appropriate agencies (CPUC, USFWS, and CDFW) shall be consulted during the preparation of the Habitat Restoration and Revegetation Plan. A copy of the final Habitat Restoration and Revegetation Plan, along with documentation of agency review and incorporation of comments into the final version, shall be provided to the CPUC, the USFWS, and the CDFW for approval prior to the CPUC issuing a notice to proceed.</p>	X	SCE and its contractors will implement this measure as defined, including implementation of the approved Habitat Restoration and Revegetation Plan.
MM BR-8	<p>Special Status Plant Avoidance and Mitigation Measures. For project areas not covered by the MSHCP, the applicant shall avoid the special status plant populations listed in Appendix G, Table 1. However, where avoidance is not feasible, special status plants in project work areas shall be identified in the field, and the following avoidance measures shall be implemented to minimize the possibility of inadvertent encroachment:</p>	X	SCE and its contractors will implement this measure as defined. Segments VIG4 through VIG8 will have an MSHCP certificate of inclusion prior to the start of construction.

Mitigation Monitoring Compliance Reporting Program Implementation Table		Applicable to NTP?	Comments
Commitment / Mitigation Measure (MM)	Item		
	<ul style="list-style-type: none"> A qualified biologist shall flag or otherwise mark special status plants. Construction crews will avoid direct or indirect impacts on these flagged areas. Should impacts on special status plants be unavoidable, the applicant will implement the following measures: <ul style="list-style-type: none"> - A qualified botanist shall determine if transplantation is feasible. If determined feasible, a qualified botanist shall develop and implement a transplantation plan in coordination with appropriate agencies (CDFW, USFWS, RCA). The special status plant transplantation plan shall identify a suitable transplant site, moving the plant material and seed bank to the transplant site, collecting seed material and propagating it in a nursery, and monitoring the transplant sites to document recruitment and survival rates. - If transplantation is infeasible, the applicant shall replace impacted special status plants at a 2:1 ratio within the project area within one year of the end of construction. Measures to restore special status plants shall be implemented in accordance with the Habitat Restoration and Revegetation Plan (MM BR-7). 		
MM BR-9	<p>Invasive Plant Control Measures. The applicant shall develop an Invasive Plant Management Plan outlining measures to prevent the spread of invasive plants such as tamarisk (<i>Tamarix</i> sp.) and giant reed (<i>Arundo donax</i>) during construction of the projects. The Invasive Plant Management Plan shall include, but is not limited to, the following measures:</p> <ul style="list-style-type: none"> All vehicles and equipment shall be cleaned prior to arrival at the work site. Straw or hay bales used for sediment barrier installations or mulch distribution shall be obtained from weed-free sources. <p>The Invasive Plant Management Plan will be submitted to the CDFW and CPUC for review and comment no more than three months prior to the start of construction. A copy of the final Invasive Plant Management Plan, along with documentation of agency review (CDFW and CPUC) and incorporation of comments into the final version, shall be provided to the CPUC for approval prior to the CPUC issuing a notice to proceed.</p>	X	SCE and its contractors will implement this measure as defined in accordance with the approved Invasive Plant Management Plan.
MM BR-10	<p>Prevent Wildlife Entrapment. In all project work areas, the applicant shall install covers, ramps, and/or fencing to avoid trapping wildlife in excavations or trenches. Covers must be weighted at the edges or installed in a way that prevent wildlife from attempting to burrow beneath the cover. Fine-gauge fencing shall be used to prevent small animals from passing through the fence. Ramps with an angle of less than 45 degrees shall be utilized. The applicant's biological monitor will check open trenches and excavations for trapped wildlife each morning prior to the start of work on the trench or excavation. Trenches and excavations that are covered for more than one week will be inspected on a weekly basis. In addition, where retaining walls or another method of slope stabilization are required, the facility shall be sited, designed, and oriented to avoid impacts on the movement of native wildlife species and established wildlife corridors in coordination with the wildlife agencies (USFWS, CDFW, RCA).</p>	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
MM BR-11	<p>Migratory Birds and Raptors Impact Reduction Measures. The applicant shall develop a Nesting Bird Management Plan in consultation with the USFWS and CDFW that outlines protective measures and BMPs that shall be employed in all project work areas to prevent disturbance of active nests. The final Plan shall be submitted to the CPUC for approval. The Nesting Bird Management Plan shall include the following components: species-specific buffer distances (including vertical buffers in areas where helicopters will be used) and conditions under which these buffer distances can be reduced, including concurrence by the CDFW, USFWS, and CPUC for special status species; dates of local breeding seasons during which nest surveys shall be conducted; preconstruction nest survey timing, methods, and surveyor qualifications; nest deterrent methods, including vegetation clearing, monitoring and reporting protocols during construction; protocols for determining whether a nest is active; protocols for documenting, reporting, and protecting active nests within construction areas; and avian monitor qualifications. If preconstruction survey protocols exist for a certain species, the Nesting Bird Management Plan shall incorporate these protocols. The survey area shall include the construction area, plus an additional distance large enough to accommodate the protective buffer of bird species likely to occur in proximity to the construction area.</p> <p>The Nesting Bird Management Plan shall further specify that active bird nests shall not be removed during breeding season unless the projects are expressly permitted to do so by the USFWS or CDFW; all project-related nest failures shall be reported to the USFWS and CDFW; and the biological monitor shall halt work if he or she determines that active nests would be disturbed by construction activities. If construction begins during the breeding season (February 1 through August 31), the Nesting Bird Management Plan shall be submitted to the USFWS and CDFW for review and comment no less than two months prior to the start of construction, with the intent that the plan will be finalized no less than one month prior to the start of construction. A copy of the final Nesting Bird Management Plan, along with documentation of agency review (CDFW, USFWS, CPUC) and incorporation of comments into the final version, shall be provided to the CPUC for approval prior to the CPUC issuing a notice to proceed during the breeding season.</p>	X	SCE and its contractors will implement this measure as defined and in accordance with the approved Nesting Bird Management Plan.
MM BR-12	<p>Burrowing Owl Impact Reduction Measures. To reduce impacts on burrowing owls, the applicant shall implement the following measures in all project work areas:</p> <ul style="list-style-type: none"> • Surveys for burrowing owls will be conducted by a qualified biologist within 30 days of construction during the non-breeding season and within 14 days of construction during the breeding season (February 1 through August 31) to confirm whether burrowing owls occupy the site. Surveys shall be performed throughout the project areas that contain suitable burrowing owl habitat, with a potential to be impacted by construction activities, plus an additional area extending 300 feet from the projects' boundaries. 	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<ul style="list-style-type: none"> If an occupied burrow is identified, the applicant shall adhere to buffer distances detailed in the Staff Report on Burrowing Owl Mitigation (CDFG 2012). The biologist will report all project-related impacts on burrowing owl to the appropriate resource agencies (CDFW and RCA). If appropriate buffers cannot be maintained, and impacts on burrowing owls or occupied burrows are unavoidable, the applicant shall develop and implement a Determination of Biologically Equivalent or Superior Preservation (DBESP), in compliance with MSHCP Section 6.3.2, and as approved by CDFW and RCA. The DBESP shall describe the compensatory measures that will be undertaken to address the loss of burrowing owl burrows within the project area. The compensatory mitigation shall be determined on a site-specific analysis, but may include restoration of temporarily impacted habitat and acquisition and or enhancement of off-site mitigation lands as determined in consultation with CDFW. If, in consultation with CDFW it is determined that project activities require removal of occupied burrows, eviction and burrow closure may be required to ensure against "take" of owls or nests. However, this will only occur after the preparation of a Burrowing Owl Exclusion Plan, as approved by CDFW. 		
MM BR-13	Trash Abatement. The applicant shall keep project areas free of trash and debris. Food-related trash items shall be stored in enclosed containers and regularly removed from site.	X	SCE and its contractors will implement this measure as defined.
MM BR-14	Protection of Special Status Species on Castle and Cooke Land. The applicant is entering into an agreement with the RCA, with USFWS and CDFW concurrence, to allow for coverage of the Valley-Ivyglen Project's obligations under the MSHCP on Castle and Cooke property, which falls outside MSHCP boundaries and thus is exempt from mitigation under the MSHCP. If this agreement is finalized prior to the start of construction, it shall be in effect for the duration of the projects or until SCE opts out. Should SCE opt out of the MSHCP, or if this agreement with the RCA is not finalized, the applicant shall implement the same or a greater level of species-specific avoidance, mitigation, restoration, and compensation measures as would have been required under the MSHCP. This may include additional consultation with USFWS and CDFW to obtain Incidental Take Authorization pursuant to the Federal California Endangered Species Acts. These additional measures would include MM BR-1, MM BR-4, and MM BR-8.	X	SCE and its contractors will implement this measure as defined. The Valley-Ivyglen Project will have coverage under the Phase 2 MSHCP Certificate of Inclusion.
MM BR-15	Stormwater Pollution Prevention Plan (SWPPP). The SWPPP shall include Best Management Practices (BMPs) sufficient to acquire authorization under the Construction General Permit and protect waters in the project vicinity from sediment and other pollutants during construction. Per SCE, BMPs from the California Stormwater BMP Handbook that would be included in the SWPPP include but are not limited to WM-1 Material and Delivery Storage, WM-4 Spill Prevention and Control, WM-5 Solid Waste Management, WM-6 Hazardous Waste Management, WM-8 Concrete Waste Management,	X	SCE and its contractors will implement this measure as defined with two SWPPPs. One SWPPP will cover the Concordia Yard. A second SWPPP will cover the

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	NS-9 Vehicle and Equipment Fueling, and NS-10 Vehicle and Equipment Maintenance. Verification of Construction General Permit authorization and the associated SWPPP shall be provided to the CPUC at least 15 days prior to start of construction. Updated SWPPPs shall be provided to the CPUC during construction upon request.		Segments VIG-1 through VIG-8.
	Cultural Resources		
MM CR-1a	<p>Ensure Preconstruction Survey Coverage of All Work Areas and Staging Areas. Prior to construction, the applicant shall compare the limits of the work areas and staging areas to project maps that show where areas have been previously surveyed for cultural resources at the Intensive Cultural Resources Inventory level. The applicant shall verify the proposed work areas and staging areas have been surveyed at the Intensive Cultural Resources Inventory level. An Intensive Cultural Resources Inventory level of survey is defined here as consisting of pedestrian surveys with transects spaced no farther apart than 15 meters except where field conditions such as exceptionally dense vegetation or steep slopes make walking transects difficult. In order to rely upon a prior survey for a work area, all areas that can be reasonably covered by transect surveys within such work area shall have been surveyed.</p> <p>If such a prior survey has been completed in the proposed work area or staging area, work can commence as follows:</p> <ul style="list-style-type: none"> • If no known resources are located in the work area or staging area, work or staging can proceed in the area. Previously unknown resources that are discovered during work activities shall be subject to MM CR-1b. • If known resources are located in the work area or staging area, they must be handled pursuant to MM CR-1b. Previously unknown resources that are discovered during work activities shall be subject to MM CR-1b. <p>If such a prior survey has not been completed in the proposed work area or staging area, then work may not commence until an Intensive Cultural Resources Inventory has been completed by a CPUC-approved archaeologist or cultural resources specialist and Native American tribal monitor(s) and reviewed and approved by the CPUC. If a resource is found during the survey, the applicant shall adhere to MM CR-1b procedures for unanticipated resources.</p>	X	SCE and its contractors will implement this measure as defined.
MM CR-1b	Avoid Impacts to Known and Undiscovered Historic Resources and Unique Archaeological Resources (Except for site P33-000714). SCE shall prepare a Cultural Resources Monitoring and Treatment Plan (CRMTP) for known and unknown resources that are eligible or potentially eligible for	X	SCE and its contractors will implement this measure as defined and in accordance with the approved CRMTP.

Mitigation Monitoring Compliance Reporting Program Implementation Table		
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?
	<p>the California Register or are unique archaeological resources, except P33-000714, which is subject to MM CR-6. The CRMTP shall be reviewed and approved by the CPUC prior to the start of construction. To implement MM CR-1b SCE shall:</p> <ul style="list-style-type: none"> Retain a qualified archaeologist who shall: prepare the CRMTP; oversee archaeological and Native American monitors; and evaluate discoveries and prepare Evaluation and Data Recovery Plans and subsequent reports. This archaeologist shall, at the minimum, meet the Secretary of Interior's Professional Qualifications Standards for archaeology and be approved by the CPUC. Provide Native American Tribes that have expressed interest in the projects (Soboba and Pechanga) the opportunity to consult with the qualified archaeologist and provide input on the draft CRMTP during its preparation, including the Evaluation Plan and Data Recovery Plan. Upon completion of the draft CRMTP, Native American Tribes shall be given at least 30 days to provide input on the draft CRMTP. Evidence of consultation with the Tribes shall be submitted to the CPUC. Prepare the CRMTP, which shall include the following: <ul style="list-style-type: none"> - Mapping. The CRMTP shall map all known California Register eligible or potentially eligible resources in and within 100 feet of work areas. Maps shall be updated as necessary to incorporate any new information obtained pursuant to MM CR-1a. - Environmentally Sensitive Areas (ESA) Delineation. The CRMTP should describe how California Register eligible or potentially eligible resources will be delineated and avoided as ESAs during construction. ESAs containing cultural resources shall not be identified on the ground or on maps to be used by anyone other than the qualified archaeologist, Native American monitors, cultural resource monitors, or other cultural resource professionals. They shall be labeled on maps and with signage in the field as "environmentally sensitive areas." The preferred method of mitigation in the CRMTP for known resources shall be total avoidance of the resource (preservation in place), per CEQA Guidelines section 15126.4(b)(3)(A). The preferred method of mitigation in the CRMTP for unanticipated resources shall be total avoidance (preservation in place). If avoidance is determined to be infeasible, the applicant shall prepare a Data Recovery Plan. - Unanticipated resource discovery. The CRMTP shall contain a description of procedures to be used if unanticipated cultural resources are discovered during construction. The CRMTP shall require that work shall be temporarily halted within 100 feet of the resource, appropriate temporary protective barriers shall be installed along with signage identifying the area only as an "environmentally sensitive area" and forbidding entry into the area by all but authorized personnel, and the qualified archaeologist 	

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
MM CR-2	<p>Monitor Ground Disturbing Activities (Includes Native American Monitoring). Archaeological monitoring shall be required for ground disturbing activities in areas with moderate to high archaeological sensitivity. In some areas where previous disturbance has occurred, spot checking may be appropriate and will be defined in the CRMTP. The archaeological monitor(s) shall be approved by CPUC staff prior to the start of construction. If any cultural resources are discovered, the archaeological monitor has the authority to stop ground-disturbing activities in the immediate area of the discovery. The process outlined in the CRMTP required under MM CR-1b shall then be followed.</p> <p>One Native American monitor from each tribe that has requested involvement (the Pechanga Tribe and the Soboba Band) shall be retained, at the Tribes' option, to observe ground-disturbing activities and all work at P33-00714, subject to the conditions outlined in this mitigation measure. SCE shall consult with Native American tribes that have requested involvement (including Pechanga and Soboba) to determine where additional Native American monitoring is required. SCE shall document consultation efforts that show queries to the NAHC and tribes on the NAHC contact list regarding culturally sensitive sites and shall provide this documentation to the CPUC for review and approval prior to any ground-disturbing activities and prior to work at resource P33-00714. Native American monitoring shall be subject to the following conditions:</p> <ul style="list-style-type: none"> • Tribes requesting presence at construction or excavation activities shall be given 30 days advance notice prior to the start of construction and shall be provided the opportunity to monitor construction activities as requested in consultation with SCE subject to the terms of this mitigation measure. The applicant shall make a good-faith best effort to schedule construction when a monitor is available. • Attendance by Native American monitors during these activities is ultimately at the discretion of the Tribe and the absence of a Native American monitor shall not delay work if the Native American tribe has been given 30 days advance notice. Documentation of consultation activities shall be included in the monitoring plan. • The Native American monitors shall have the ability to temporarily halt work or redirect grading from the immediate vicinity of a potential unanticipated archaeological find that may require recordation and evaluation. The archaeological monitor shall be notified immediately to determine the procedure to follow per MM CR-1b. 	X	SCE and its contractors will implement this measure as defined and in accordance with the approved CRMTP.
MM CR-4	<p>Monitor Paleontologically Sensitive Areas. SCE shall retain a qualified paleontologist to monitor ground-disturbing activities in paleontologically sensitive areas as defined in the Paleontological Resource Monitoring Plan (PRMP). The qualified paleontologist shall be approved in advance by the CPUC. The qualified paleontologist shall prepare a brief Paleontological Resource Monitoring Plan that includes methods of paleontological monitoring and includes construction maps delineating areas</p>	X	SCE and its contractors will implement this measure as defined and in accordance with the approved PRMP.

Mitigation Monitoring Compliance Reporting Program Implementation Table		
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?
	<p>of ground disturbance that shall be monitored for paleontological resources. These shall include areas where:</p> <ul style="list-style-type: none"> • There is a high or undetermined paleontological sensitivity. • There is a potential for fossils to occur at a level shallow enough to be adversely affected by project activities. <p>Areas where fossils would likely occur include but are not limited to the Silverado Formation. Areas where fossils are not reasonably likely to be discovered include areas of igneous substrate, such as the Estelle Mountain volcanic rock. Qualifications for proposed paleontological monitors shall be submitted to the CPUC for review and approval. Only CPUC-approved paleontological monitors shall serve on this project. The paleontological monitor shall have the authority to halt construction in the vicinity of any potential finds in order to begin implementation of MM CR-5. A reduction in monitoring activities will be determined based on field observations and in coordination with SCE and CPUC.</p>	
MM CR-5	<p>Follow Paleontological Resource Discovery Protocol. In the case that a previously unknown paleontological resource is discovered during construction activities, all work within 15 meters of the resource shall be stopped, and the CPUC-approved paleontologist shall determine whether the resource can be avoided. If the resource cannot be avoided, the paleontologist shall determine whether the resource is unique under Part V of CEQA Guidelines Appendix G. A paleontological resource shall be considered unique if it meets the definition of a significant paleontological resource under the 2010 Society of Vertebrate Paleontology Standard Procedures for the Assessment of Adverse Impacts to Paleontological Resources definition:</p> <p>Significant paleontological resources are fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years) (Society of Vertebrate Paleontology 2010).</p> <p>Substantiation of the uniqueness conclusion shall be provided to the CPUC for review and approval. Work shall be allowed to continue if the resource is not unique.</p> <p>If the resource is unique, then work shall remain stopped until the approved paleontologist has consulted with SCE and the CPUC and a feasible approach, approved by the CPUC, has been developed that will prevent destruction of the resource by site protection or recovery. Methods of recovery, testing, and evaluation shall adhere to current professional standards for recovery, preparation, identification, analysis, and curation, such as the 2010 Society of Vertebrate Paleontology</p>	X
		SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	Standard Procedures for the Assessment of Adverse Impacts to Paleontological Resources. Work can commence following recovery and CPUC approval.		
MM CR-6	<p>Avoid Impacts to Contributing Elements of P33-000714. All activities within the site boundaries of P33-000714 shall be in accordance with SHPO's concurrence letter, sent to SCE on October 7, 2014. Access road construction shall occur only as described in SCE's letter to the SHPO for concurrence. No contributing elements of P33-000714 shall be impacted during construction, operation, and maintenance activities. An ESA shall be established around contributing elements during construction to prevent access by construction crews. Archaeological monitoring shall be required for construction activities within the boundaries of P33-000714.</p> <p>Archaeological monitoring shall be required for maintenance activities within the boundaries of P33-000714 unless the activities involve only driving on established access roads. The archaeological monitor shall have the authority to stop work in the case of an unanticipated resource. In the case of an unanticipated resource, the process outlined in MM CR-1b shall be implemented. In addition, eucalyptus trees shall not be uprooted at site P-33-000714 but shall be removed by a method that minimizes ground disturbance, such as cutting down the tree and grinding the stump to ground level with a stump grinder.</p>	--	Compliance with this measure is addressed in NTPR-1.
MM CR-7	<p>Follow Necessary Procedures for Unanticipated Discovery of Human Remains. The CRMTP (MM CR-1b) shall include a summary of the applicable laws concerning human remains, including: CEQA Guidelines section 15064.5(e); PRC sections 5097.94, 5097.98, and 5097.99; and California Health and Safety Code section 7050.5. These laws require Native American consultation for Native American burial sites. The CPUC shall be notified immediately after the legally-mandated notification of the county medical examiner if any human remains are encountered during construction. Workers shall be trained in procedures to follow in case of unanticipated discovery of human remains as part of the Worker Environmental Awareness Plan.</p>	X	SCE and its contractors will implement this measure as defined and in accordance with the approved CRMTP.
Hazards			
MM HZ-2	<p>Contaminated Soil/Groundwater Contingency Plan. Prior to the start of construction, to the extent not otherwise included within plans required by the Riverside County Hazardous Materials Management Division, the applicant shall develop a Contaminated Soil/Groundwater Contingency Plan to address the unearthing or exposure of buried hazardous materials or contamination or contaminated groundwater during construction of the projects. The Plan shall detail steps that the applicant or its contractor will take to prevent the spread of contamination, the sampling necessary if contamination is discovered, and remedial action to be taken. The Plan, at minimum, shall include the following:</p> <ol style="list-style-type: none"> Contact information for federal, regional, and local agencies, the applicant's environmental coordinator(s) responsible for the cleanup of contaminated soil or groundwater, and licensed disposal facilities and haulers. 	X	SCE and its contractors will implement this measure as defined and in accordance with the approved Contaminated Soil/Groundwater Contingency Plan.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<p>2. Procedures to minimize environmental impacts in the event that hazardous soils, contaminated groundwater, or other hazardous materials are encountered during construction including stopping work; securing and marking the contaminated area; preventing the spread of contamination; testing; primary, secondary, and final cleanup procedures; and proper disposal in accordance with applicable laws and regulations.</p> <p>3. Training requirements for construction workers performing excavation activities including training on types of contamination including common contaminants (e.g., petroleum hydrocarbons, lead, mercury, and metals, asbestos, acetone, nitrate, semi-volatile organic compounds and volatile organic compounds (benzene), polychlorinated biphenyls, sanitary waste, and pesticides) and hazardous materials (as defined by the California Health and Safety Code) and identifying potentially hazardous contamination (e.g., stained or discolored soil and odor).</p> <p>4. Dewatering procedures including storage, testing, treatment, and disposal requirements and dewatering BMPs set forth in the applicant's Storm Water Pollution Prevention Plan.</p> <p>The applicant shall submit the plan to CPUC for review and approval at least 60 days prior to the start of construction. The applicant shall implement the plan during construction of the projects.</p>		
MM HZ-3	<p>Contacting Affected Landowners Regarding Underground Facilities. Prior to construction the applicant shall contact affected private landowners to determine if septic systems and associated leach fields as well as other underground facilities may be impacted by construction of the projects. Final engineering plans for the projects shall be designed to avoid damage to underground facilities, both public and private. The applicant shall immediately notify by telephone the owner of underground facilities that may have been damaged or dislocated during construction of the projects.</p>	X	SCE and its contractors will implement this measure as defined.
MM HZ-4	<p>Fire Control and Emergency Response. The applicant, in consultation with its contractors, shall develop and implement site-specific fire control and emergency response plans to address the risk of fire or other emergencies (e.g., flooding) during construction, operation, and maintenance of the projects. The plans and a record of contact and coordination with the fire departments with jurisdiction over each worksite shall be submitted to the CPUC for review and approval prior to start of construction. The plans shall describe fire prevention and response practices that the applicant and its contractors will implement to minimize the risk of fire, and in the event of fire or other emergencies, provide for immediate response.</p> <p>The site-specific plans shall specify that the applicant or its contractors will furnish supervision, labor, tools, equipment, and materials for the prevention of fire and extinguishing and controlling the spread of fires started as a result of project activities.</p> <p>During Construction:</p> <ul style="list-style-type: none"> The applicant or its designee shall designate a full time Fire Risk Manager who will be present during construction activities, whose sole responsibility will be to monitor the 	X	SCE and its contractors will implement this measure as defined and in accordance with the approved Fire Control and Emergency Response Plan.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	
	Comments		
	<p>contractor's fire-prevention activities, and who will have full authority to stop construction as needed to prevent fire hazards. The Fire Risk Managers shall:</p> <ul style="list-style-type: none"> - Serve as liaisons to fire departments and act as a point of contact for fire departments in the event of fire or other emergency; - Manage the prevention, detection, control, and extinguishing of fires set accidentally as a result of construction activity; - Review site-specific fire control and emergency response plans prior to starting work; - Ensure that all construction personnel are trained in fire safety measures relevant to their responsibilities. At minimum, construction personnel shall be trained in fire and emergency reporting and incipient-stage fire prevention, control, and extinguishing (i.e., the fire can be controlled or extinguished by portable fire extinguishers, small hose systems, or portable water supplies without the need for protective clothing or breathing apparatus). Each member of the construction workforce shall be trained and equipped to extinguish small fires; - Be equipped with radio and cellular telephone access for the duration of each work day; - Ensure that all construction personnel are provided with operational radio and cellular telephone access at each worksite to allow for immediate reporting of fires or other emergencies and ensure that communication pathways and equipment are tested and confirmed operational each day prior to initiating construction activities at each worksite; and - Maintain an updated key personnel and emergency services contact (telephone and email) list onsite and available to construction personnel. <ul style="list-style-type: none"> • Construction workers shall immediately report all fires to the nearest Fire Risk Manager. <p>During All Project Phases:</p> <ul style="list-style-type: none"> • Equipment installed and maintained as part of the project shall include: <ul style="list-style-type: none"> - Spark arresters that are in good working order and meet applicable regulatory standards for all internal combustion engines (both stationary and mobile); - Fire suppression equipment on all motorized vehicles that includes, at minimum, one shovel and one pressurized chemical fire extinguisher; - A fire extinguisher capable of extinguishing any equipment caused fire on all heavy construction equipment; and - Portable communication devices (e.g., radios or cellular telephones) and communication protocols for project workers to coordinate with local agencies and emergency personnel in the event of fire or other emergencies. <ul style="list-style-type: none"> • Measures to be undertaken by the applicant or its contractors shall include: <ul style="list-style-type: none"> - Prohibiting smoking during the operation of light or heavy construction equipment; in wildland areas; and within 30 feet of any area where combustible materials (e.g., fuels, gases, and solvents) are stored; 		

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<ul style="list-style-type: none"> - Limiting smoking to paved areas or areas cleared of all vegetation; - Posting no-smoking signs and fire rules on project bulletin boards, at contractor field offices, and in other areas visible to workers during fire season; - Maintaining all worksites in an orderly, safe, and clean manner. Maintaining staging areas and parking areas free of extraneous flammable materials. Removing all oily rags and used oil filters from worksites; - Confining hot-work activities (e.g., welding, brazing, soldering, grinding, and arc cutting) to cleared areas with a minimum 10-foot clearance radius measured from place of hot-work activity; - Ensuring an appropriate fire extinguisher is present before initiating each hot-work activity; - Preventing vehicles with hot exhaust manifolds from idling on roads with combustible vegetation under the vehicles; - Ensuring all Blasting Plan (MM WQ-1) BMPs are followed, e.g., pre-blast and post-blast inspections; - Notifying the fire department with jurisdiction over the worksite in advance of all planned burning activities (e.g., to clear vegetation). Special care shall be taken to prevent damage to adjacent structures, trees, and vegetation during planned burning activities; and - Any additional fire prevention and detection measures to lower the risk of wildland fires. <ul style="list-style-type: none"> • Measures to be undertaken by the applicant or its contractors for days when the National Weather Service issues a Red Flag Warning for a project area shall include: <ul style="list-style-type: none"> - Abiding by all restrictions and requirements that may be imposed by fire departments during Red Flag Warning periods (e.g., parking restrictions; road closures; and work activity and equipment use restrictions and requirements); and - Prohibiting smoking at all worksites. 		
MM WQ-1	<p>Water Quality</p> <p>Blasting Plan and Best Management Practices. The applicant or its contractors shall prepare and implement a detailed Blasting Plan for the Valley-Ivyglen Project. This plan shall identify the scope of blasting, all blasting locations, the proximity of facilities to each blasting location, and the types and estimated amounts of blasting agent required for each blasting location.</p> <p>The plan shall be submitted to and approved by the CPUC prior to start of blasting and the plan shall be resubmitted for approval if changes are required. The intent of the plan is to:</p> <ul style="list-style-type: none"> • Reduce the potential for increased turbidity in groundwater and surface water; • Prevent debris from entering drainages, waters of the state, and waters of the United States; and • Avoid mishandling of hazardous materials associated with blasting. 	X	Blasting is not anticipated at this time. If deemed necessary at a later date, a Blasting Plan will be submitted to and approved by the CPUC prior to the start of blasting.

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<p>BMPs shall include, but are not limited to:</p> <ul style="list-style-type: none"> • Conduct pre-blast surveys and inspections and conduct postblast surveys and inspections for blast performance and fire hazards (e.g., undetonated explosive agent or smoldering materials); • Remove and manage muck piles (blast debris) to prevent water contamination; • Place matting or padding to contain flyrock and add an appropriate blasting agent to reduce flyrock near sensitive biological and cultural resources; • Select an explosive with appropriate water resistance for the blast site to reduce impacts on groundwater; • Clean loading equipment in an area where waste can be contained and kept away from drainages and other surface water; • Manage muck piles to avoid contact with stormwater and remove them from the project area as soon as reasonably feasible; and • Handle hazardous materials located during blasting in accordance with MM HZ-2. 		
MM WQ-2	<p>Drainage Crossing Procedures and Practices. Within two weeks following a significant precipitation event (e.g., >0.6 inches within a 24-hour period) and prior to construction-related drainage crossing, a qualified aquatic monitor shall inspect any drainages that must be crossed. The inspector shall determine whether the drainage may be crossed without a bridge, crossed with a bridge, or avoided until conditions become more suitable for crossing. If a temporary or permanent bridge is required in order to avoid impacts, the following measures shall be implemented:</p> <ul style="list-style-type: none"> • Any temporary or permanent bridges shall be installed to avoid placement below the Ordinary High Water Mark of the drainage as feasible. • Prior to construction, the applicant shall obtain all necessary permits and approvals from the USACE, Santa Ana RWQCB, and CDFW. 	X	SCE and its contractors will implement this measure as defined. Drainage crossings that require permits and approval from the USACE, Santa Ana RWQCB, and CDFW are not included in NTPR-2, nor are the installation of temporary or permanent bridges in these drainages; This work will be included in a future NTPR.
MM WQ-3	<p>Design of Access Roads with Erosion Control Measures. Access roads shall be designed and built to minimize adverse erosion and siltation impacts. Measures to be incorporated into unpaved roadway design and construction shall include, but are not limited to:</p> <ul style="list-style-type: none"> • Any temporary or permanent bridges shall be installed to avoid placement below the Ordinary High Water Mark of the drainage as feasible. • Prior to construction, the applicant shall obtain all necessary permits and approvals from the USACE, Santa Ana RWQCB, and CDFW. 	X	SCE and its contractors will implement this measure as defined. Work areas that require permits and approval from the USACE, Santa Ana RWQCB, and CDFW are not included in NTPR-2. This work will be included in a future NTPR.
MM WQ-4	<p>Disposal of Groundwater from Dewatering Excavations. Groundwater extracted as a result of dewatering during construction shall not be discharged to waters of the state without written</p>	X	SCE and its contractors will implement this measure as defined.

Mitigation Monitoring Compliance Reporting Program Implementation Table			Applicable to NTP?	Comments
Commitment / Mitigation Measure (MM)	Item			
	<p>authorization from the Santa Ana RWQCB. Extracted groundwater shall be disposed of on-site in one of the following manners:</p> <ul style="list-style-type: none"> • Discharged to an upland area where it will not enter waters of the state but would instead evaporate or infiltrate; • Used for dust control; • Used for irrigation water; • Used for other construction needs; or • Disposed of at a licensed facility if water is suspected of being contaminated or degraded. 			
MM WQ-5	<p>Maintain Capacity and Connectivity of Drainages. SCE shall design and construct access roads to maintain the capacity and connection of drainages that are adjacent to and crossed by access roads for the proposed projects. Methods to maintain drainage characteristics include installation of culverts or designing low water crossings. Prior to any alteration of a drainage, including grading or the placement of fill material or culverts in a drainage, SCE shall obtain any permits required by the USACE, Santa Ana RWQCB, and CDFW.</p>		--	<p>This NTPR does not include work associated with drainages that require permits from USACE, Santa Ana RWQCB, and CDFW. This work will be included in a future NTPR.</p>
MM WQ-6	<p>Avoid Impeding MDP Implementation and Function. Prior to construction, SCE shall consult with the RCFWCD for project elements located within MDP areas. Construction within MDP areas shall not be allowed to proceed until SCE consults with the RCFWCD about whether project elements located in these areas would not impede the function of flood control facilities and would not prevent implementation of the MDP.</p>		X	<p>SCE and its contractors will implement this measure as defined.</p>
MM NV-1	<p>Noise</p> <p>Construction Noise Reduction Measures. Prior the start of construction, the applicant shall prepare and submit to the CPUC a Noise Control Plan, which shall detail the frequency, location, and methodology for noise monitoring prior to and during the proposed construction activities, such as for activities within the Cities of Lake Elsinore and Perris. The Noise Control Plan will also detail the actions and procedures that the applicant will implement to avoid significant impacts from temporary ambient noise increases. Measures in the Noise Control Plan shall include, but not be limited to the following:</p> <ul style="list-style-type: none"> • Reducing the number of pieces of equipment concurrently operating near sensitive receptors, as feasible. • Where feasible and available, using construction equipment specifically designed for low noise emissions (i.e., equipment that is powered by electric or natural gas engines instead of diesel or gasoline reciprocating engines). Electric engines have been reported to have lower noise levels than internal combustion engines. • Compensating residents for temporary relocation during high-noise activities that cannot be reduced to less than 90 dBA. 		X	<p>SCE and its contractors will implement this measure as defined and in accordance with the approved Noise Control Plan.</p>

Mitigation Monitoring Compliance Reporting Program Implementation Table			
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?	Comments
	<ul style="list-style-type: none"> The applicant shall monitor construction and maintenance noise levels in hourly equivalent averages Leq(h) before and during construction activities planned within 20 feet of noise sensitive receptors. During the project construction period, noise measurements shall be taken on a daily basis and reported to the CPUC on a monthly basis, within 15 days of the end of the monitoring period. Where applicable, the hours of construction may be altered from Project Commitment H to include a 12-hour day in accordance with a local jurisdiction. Within the City of Wildomar, for instance, construction may occur between the hours of 6:00 a.m. and 6:00 p.m. instead of 7:00 a.m. and 7:00 p.m. <p>The applicant shall submit the Noise Control Plan to the CPUC for review and approval at least 30 days prior to the start of project construction. The applicant shall comply with all requirements of the approved Noise Control Plan whenever it applies during construction and maintenance activities for the projects.</p>		
MM NV-2	<p>Blasting Vibration Control Measures. During final project design, if blasting is proposed, the applicant shall develop a blasting mitigation and monitoring plan to be implemented during blasting activities for the Valley-Ivyglen project. The plan shall be submitted to the CPUC for review and approval at least 30 days prior to the start of project construction.</p> <p>During plan development, applicant must assess distances to sensitive receptors and include blasting procedures in the plan that ensure blasting operations will be engineered safely and effectively. The plan shall include the following requirements for blasting activities:</p> <ul style="list-style-type: none"> Using blasting methods designed to reduce vibration and air overpressure; Using pre-blast warning signals prior to detonating the blast and after detonation, conducting post-blast safety inspections; Conducting blast monitoring for all blasting operations. A daily log shall be maintained by the blasting contractor for each blast detonated on each working day, including monitoring of ground motions, peak particle velocity, and air blast levels; Implementing modifications to blasting procedures -- such as using different delay patterns, reducing the size of individual blasts, using shorter and/or smaller diameter blast holes, closer spacing of blast holes, reducing volume of explosives used, using protective measures (e.g., gravel or blasts mats) -- as necessary to control rock and debris that may be expelled from the blast sites and sound walls or a combination of measures in the case that blasting would result in vibration or blast levels with a PPV in excess of 2.0 inches/second or 80 VdB as measured at the closest residential receptors property line; Limiting hours of blasting to daytime hours between 7:00 a.m. and 7:00 p.m., Monday through Saturday; Implementing a public outreach program to provide alerts the affected public to the potential for vibrations and noise associated with blasting not less than three and not more than ten days prior to the commencement of blast activities; and 	X	Blasting is not anticipated at this time. If deemed necessary at a later date, a Blasting Plan will be submitted to and approved by the CPUC prior to the start of blasting.

Mitigation Monitoring Compliance Reporting Program Implementation Table		
Commitment / Mitigation Measure (MM)	Item	Applicable to NTP?
	<ul style="list-style-type: none"> Responding to and investigating complaints. 	
	Traffic	
MM TT-1	<p>Traffic Management and Control Plan. As part of the encroachment permit, the applicant shall prepare a Traffic Management and Control Plan that may include measures to ensure that:</p> <ul style="list-style-type: none"> Traffic flow, bicycle access, and pedestrian access is not completely restricted on any roadway for longer than 15 minutes, or a detour is provided; Emergency access is maintained at all times; and Lane closures do not create safety hazards. <p>In addition to measures required by agencies with jurisdictions over the project, this plan also may provide for the following:</p> <ul style="list-style-type: none"> Include a discussion of work hours, haul routes, work area delineation, traffic control, and flagging; Identify all access and parking restriction and signage requirements; Require workers to park personal vehicles at the approved staging area and take only necessary project vehicles to the work sites; Lay out plans for pre-construction notifications to and a process for communication with affected residents and landowners. Advance public notification shall include posting of notices and appropriate signage regarding construction activities. The written notification shall include the construction schedule, the exact location and duration of activities within each street (i.e., which roads/lanes and access point/driveways/parking areas would be blocked on which days and for how long), and a toll-free telephone number for receiving questions or complaints; Require posting of warning signs so that motorists are prepared for slow trucks; Require notification of emergency service providers regarding the timing, location, and duration of construction activities. Require all roads to remain passable to emergency service vehicles at all times; Identify all roadway locations where special construction techniques (e.g., night construction) would be used to minimize impacts to traffic flow; Require emergency vehicle access to be maintained at all times; Encourage full use of the full roadway width that existed prior to construction during non-working hours, if possible; Restrict deliveries of large equipment during peak traffic hours to the extent feasible in accordance with applicable local ordinances; Ensure that traffic control is performed in accordance with final engineering plans and approved drawings attached to any permit issued; 	X
		SCE and its contractors will implement this measure as defined and in accordance with the approved Traffic Management and Control Plan.

Mitigation Monitoring Compliance Reporting Program Implementation Table			Applicable to NTP?	Comments
Commitment / Mitigation Measure (MM)	Item			
	<ul style="list-style-type: none"> When required, such as during egress of slow traffic onto public roadways, traffic shall be controlled by flaggers who shall be in constant communication with each other during flagging operations; Require removal of all dirt from the roadway each day before the completion of work; and Require streets to be maintained in drivable condition at all times. <p>The Traffic Management and Control Plan shall be submitted to the CPUC for review and approval prior to submittal of the permit application to Caltrans. The plan will account for Caltrans standards and guidelines.</p>			
MM TT-2	<p>Heavy Vehicle Traffic Restrictions. The applicant shall minimize heavy vehicle traffic for the project at the Lake Street and I-15 northbound ramp during the AM peak hour (7:00 AM to 9:00 AM) for the duration of project construction. Heavy vehicles traveling to project sites during the AM peak hour shall be diverted to the Indian Truck Trail and I-15 northbound ramp. Prior to the start of construction, the applicant shall alert truck drivers associated with the project.</p> <p>The applicant shall also minimize construction traffic for the project at the Menifee Road and SR-74 intersection during the PM peak hour (4:00 PM to 6:00 PM). The applicant may require construction traffic to exit Staging Area ASP7 and Staging Area VIG2 prior to 4:00 PM or after 6:00 PM. Alternatively, the applicant may provide an alternative access route.</p>	X	SCE and its contractors will implement this measure as defined.	
MM TT-3	<p>Highway Closure Plan. The applicant shall prepare and submit to Caltrans a Highway Closure Plan as part of its Caltrans encroachment permit application. The plan shall ensure that closure or partial closure of I-15 and SR-74 are planned so as to minimize traffic disruption and other hazards to highway users. The plan may include measures to limit construction to offpeak, non-daytime hours, from 10 p.m. to 5 a.m., and to include signage posted prior to the closure to alert drivers of the closure in accordance with Caltrans requirements. The plan will be reviewed and approved by Caltrans to minimize delay to I-15 and SR-74 traffic. If needed, the plan shall also outline suggested detours for I-15 and SR-74 traffic, including routes and signage. At least 15 days prior to initiating installation of the crossings, the applicant shall provide to the CPUC evidence of Caltrans granting the encroachment permit.</p>	X	SCE and its contractors will implement this measure as defined.	
MM TT-4	<p>Helicopter Lift Plan. SCE's helicopter contractor shall coordinate with the FAA and obtain FAA-required approvals for helicopter operations. The applicant contractor's submittal to the FAA shall include a Helicopter Lift Plan for operations within 500 feet of a congested area or within 500 feet of residences in compliance with 14 CFR 133.33, which requires that flights be conducted so emergency landings and release of external load can be accomplished without safety risks to people or property when operating over congested areas. The Helicopter Lift Plan shall include the following measures, to the extent feasible:</p> <ul style="list-style-type: none"> Designation of a responsible party for equipment inspections; 	X	SCE and its contractors will implement this measure as defined and in accordance with a Helicopter Lift Plan that will be provided to the CPUC prior to the start of helicopter operations.	

Mitigation Monitoring Compliance Reporting Program Implementation Table			Applicable to NTP?	Comments
Commitment / Mitigation Measure (MM)	Item			
	<ul style="list-style-type: none"> • Communication procedures; • Identification of exclusion zones where pedestrians will not be allowed; and • Training of personnel in safety requirements and procedures. <p>The Helicopter Lift Plan and evidence of FAA approval of the plan shall be provided to the CPUC prior to commencing helicopter operations.</p>			
MM TT-5	<p>FAA No-Hazard Determination. SCE shall obtain a determination of no hazard from the FAA when notification under 14 CFR 77 is required for:</p> <ul style="list-style-type: none"> • Use of construction equipment, such as cranes; or • Installation of structures, such as lattice steel towers. <p>SCE shall provide documentation of the FAA finding to the CPUC prior to the use of equipment or installation of structures that require notification under 14 CFR 77.</p>	X	SCE and its contractors will implement this measure as defined.	
MM TT-6	<p>Road Damage Repair. SCE shall restore and repair to pre-project conditions any private roads damaged by project vehicle traffic. SCE shall document roadway conditions with photographs prior to the project along roads identified for heavy vehicle use in the project's Traffic Impact Analysis. SCE shall also take photographs after the project and after completion of any repairs to document restoration of pre-project pavement conditions.</p>	X	SCE and its contractors will implement this measure as defined.	
MM TT-7	<p>Emergency Service Provider Notification. SCE shall notify local emergency service providers (i.e., police departments, ambulance services, and fire departments) of road closures at least one week prior to the closure. SCE shall notify the provider of the location, date, time, and duration of closure. SCE shall also coordinate with local emergency service providers to ensure emergency vehicle access at all times during construction by, for example, keeping metal plates available to cover open trenches.</p>	X	SCE and its contractors will implement this measure as defined.	