EAST COUNTY SUBSTATION PROJECT
MINOR PROJECT REFINEMENT REQUEST FORM

Date Submitted:	03-07-14	**Request #:**	12
Date Approval Required:	03-07-14	**Landowner:**	San Diego Gas & Electric Company (SDG&E)
APN:	[This information has been redacted due to its confidential nature.]		

Refinement from (check all that apply):

☐ Mitigation Measure	☐ APM	☑ Project Description	☐ Drawing	☐ Other

Identify source (mitigation measure, project description, etc.):

Page B-23 and Figures B-3 and B-7 in Section B. Project Description of the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the East County (ECO) Substation Project (Project) describe and depict the Southwest Powerlink (SWPL) loop-in. This Minor Project Refinement (MPR) request describes refinements to the SWPL loop-in, which include a reduction and shift in the maintenance pad for three-pole structure SD-6; shift in the temporary workspace at existing SWPL structure 50183; reduction of temporary workspace at the pull site between SWPL structure 50183 and SD-6; shifted temporary workspace for the pull site and removal of the southernmost access road at three-pole structure SD-2; additional grading at the permanent access road for SD-2; and shifts in the workspace for three-pole structures SD-1, SD-3, SD-4, and SD-5. The extension of fiber optic cable from the adjacent Sunrise Powerlink (SPL) transmission structure to the SWPL loop-in is also requested. The proposed refinements will result in a decrease in the overall permanent footprint of the SWPL loop-in due to the removal of permanent workspace at the two refinement locations. A description of the refinements is provided on pages 2 and 3 of this MPR request, and a list of refinements and the reason for each is provided in Attachment A: Minor Project Refinement Request Screening Form.

Attachments (check all that apply):

☑ Refinement Screening Form (provided as Attachment A: Minor Project Refinement Request Screening Form)	☑ Maps (provided as Attachment B: SWPL Loop-In Impact Comparison Map; Attachment C: SWPL Loop-In Survey Results Map)	☑ Other (Attachment D: EIR/EIS Study Area Table)

Under Order 3 of the Decision Granting SDG&E Permit to Construct the East County Substation Project (D.12-04-022), the CPUC may approve minor project refinements under certain circumstances. In accordance with Order 3 of the Decision, respond "yes" or "no" to the following questions (a) through (d).

(a) Is the proposed refinement outside the geographic boundary of the EIR/EIS study area? No. The proposed SWPL loop-in refinements are located within the geographic extent of the EIR/EIS study area, which is summarized in Attachment D: EIR/EIS Study Area Table. Biological, drainage, and cultural surveys of the approved SWPL loop-in were included in the Final EIR/EIS analysis. Attachment C: SWPL Loop-In Survey Results Map depicts the boundaries of the areas that were surveyed for various resources in the Project vicinity.

(b) Will the proposed refinement result in a new significant impact or a substantial increase in the severity of a previously identified significant impact based on the criteria used in the EIR/EIS? No. Attachment A: Minor Project Refinement Request Screening Form provides a detailed assessment.

(c) Does the proposed refinement conflict with any mitigation measure or applicable law or policy? No.

(d) Does the proposed refinement trigger an additional permit requirement? No. The construction of the SWPL loop-in was discussed in Section B. Project Description of the Final EIR/EIS; therefore, no additional permits will be required that were not already considered through the approval of the Project.

The proposed refinements will not increase any impacts to jurisdictional resources; rather, they will result in a decrease of approximately 0.0003 acre of permanent impacts to United States Army Corps of Engineers- (USACE-) jurisdictional drainages and a decrease of approximately 0.0028 acre of permanent impacts to California Department of Fish and Wildlife- (CDFW-) jurisdictional drainages. Therefore, no additional USACE or CDFW permit requirements will be triggered.

Describe refinement being requested (attach drawings and photos as needed):

The SWPL loop-in was described on page C-25 in Section C. Alternatives and depicted on Figures C-4A and C-4B in Section C. Alternatives of the Project's Final EIR/EIS. As part of the final engineering design for the SWPL loop-in and as shown in Attachment B: SWPL Loop-In Impact Comparison Map, SDG&E proposes to reduce and shift the permanent maintenance pad for three-pole structure SD-6; reduce temporary workspace at existing SWPL structure 50183; reduce temporary workspace at the pull site between SWPL structure 50183 and SD-6; shift the pull site south of SD-2 and remove the previously planned temporary access road; slightly expand the permanent access road leading to SD-2; and reduce the workspaces at structures SD-1, SD-3, SD-4, and SD-5.

The proposed refinements to the maintenance pad for SD-6 will result in a decrease of approximately 0.67 acre of permanent impacts. Approximately 0.07 acre of temporary workspace at the proposed pull site north of SWPL structure 50183 will be removed and approximately 0.03 acre of temporary workspace at the pull site between SWPL structure 50183 and SD-6 will be removed. The proposed refinement to the pull site south of SD-2 will result in a decrease of approximately 0.30 acre of temporary impacts and a decrease of approximately 0.06 acre of permanent impacts. In addition, approximately 0.40 acre of permanent impacts and 0.01 acre of temporary impacts will be reduced due to the refinements to SD-1, SD-3, SD-4, and SD-5.

This MPR request also proposes the extension of fiber optic cable from the existing SPL structure EP254-3 to the proposed SWPL loop-in structure SD-6 and from SPL structure EP255-2 to the existing SWPL structure 50183 to the proposed SWPL loop-in structure SD-4. The existing fiber optic line on the SPL structures is the nearest fiber optic line to the ECO Substation; the existing SWPL structures do not carry any fiber optic cable. The proposed extension of fiber optic cable will utilize existing workspace at the transmission structures and no additional ground disturbance will be needed to create additional workspace. In areas where no vehicle access is available, crews will walk to and climb the structures.

In total, the proposed refinements will result in a net decrease in the permanent impacts of the SWPL loop-in by approximately 1.13 acres and a decrease in temporary impacts of the SWPL loop-in by approximately 0.41 acre. Attachment B: SWPL Loop-In Impact Comparison Map depicts the preliminary design of the SWPL loop-in as it appeared in Section C. Alternatives of the Final EIR/EIS, and compares it to the final design of the SWPL loop-in. Attachment B: SWPL Loop-In Impact Comparison Map also shows the differences in the permanent and temporary impacts of the final design of the SWPL loop-in, as described in this MPR request.

The activities associated with the construction and utilization of the refinement areas will occur in the same manner as those described in the Final EIR/EIS.

Provide need for refinement (attach drawings and photos as needed):

The minor refinements described in this MPR request are a result of the final design for the SWPL loop-in. Notice to Proceed #12—which was issued by the California Public Utilities Commission on November 19, 2013—authorized SDG&E to conduct geotechnical fault investigations at the SWPL loop-in structure SD-6, and during these investigations, it was determined that a fault line is located near SD-6. The location of SD-6 was slightly shifted to avoid the fault line. The northeastern corner of the SD-6 maintenance pad was shifted to allow better drive through access of the site, and the grading on the northern end was reduced to avoid interference with the adjacent SPL transmission tower, resulting in the reduction of approximately 0.67 acre of impacts at the SD-6 maintenance pad.

Final engineering determined that impacts can be reduced at SD-2 by shifting the temporary pull site north and connecting it to the permanent maintenance pad at SD-2. This shift eliminated the need for a new temporary road, which was described in the Final EIR/EIS. In addition, the permanent access road leading to SD-2 will be slightly expanded to allow for improved access to the pole, including the turning radii at the road return. As a result of the

refinements at SD-2, there will be a net reduction in permanent impacts of approximately 0.06 acre and a net reduction in temporary impacts of approximately 0.30.

The overall footprints for maintenance pads SD-1, SD-3, SD-4, and SD-5 were reduced. The reductions at these four maintenance pads will result in a reduction of approximately 0.40 acre of permanent impacts and a reduction of approximately 0.01 acre in temporary impacts.

The SWPL transmission line does not currently carry a fiber optic communication line. In order to integrate the ECO Substation into a primary and redundant optical fiber physical layer network, which is the standard for SDG&E, the fiber optic line must be carried in from the adjacent SPL structure to the nearest SWPL structure and then it can be looped into the ECO Substation. The fiber optic system will provide a redundant, high-bandwidth path for the existing digital microwave communication system between San Diego, the ECO Substation, and the existing Imperial Valley Substation. Where microwave and programmable logic controller systems continue to provide communication support, the fiber optic system will provide a secure and efficient transport layer. This will accommodate the communication delivery time performance requirements and reliability for electric substation automation without impacts from radio frequency, electromagnetic interference, and atmospheric conditions. Fiber optic cable is also the safest solution, as all-dielectric cable specified within the substation provides high-voltage protection to personnel and equipment.

Date refinement is expected to be implemented:	03-07-14

SDG&E Approvals

Title	Name	Approval Initials	Date	Conditions (see attached)	
Environmental Project Manager	Don Houston	DH	02-26-14	☐ Yes	☑ No
Environmental Compliance Lead	Kirstie Reynolds	KR	02-26-14	☐ Yes	☑ No
Construction Manager	Molly Amendt	MA	02-26-14	☐ Yes	☑ No
Environmental Field Supervisor	Jeffry Coward	JC	02-26-14	☐ Yes	☑ No
Cultural Resource Specialist	Nicole Morgan	NM	02-26-14	☐ Yes	☑ No

Landowner Approval (if required)

Landowner Name	Signature or Other Consent	Date
SDG&E	Not Applicable (NA)	NA

Resource Agency Coordination

Resource Agency	Name	Action Required	Date	Documentation (see attached if yes)
No resource agency coordination is required as a result of this MPR request.				

ATTACHMENT A: MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

RESOURCE EVALUATION

The proposed Minor Project Refinement (MPR) request was evaluated to verify that it will not result in a new significant impact or a substantial increase in the severity of a previously identified significant impact based on the criteria used in the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the East County (ECO) Substation Project (Project). The following table provides a brief summary of the potential impact for each resource area analyzed in the Final EIR/EIS.

EIR/EIS Section	Summary of Potential Impacts
Visual Resources	*No Change*. This MPR request does not include the addition of any new structures that were not described in the Final EIR/EIS. As depicted in Attachment B: SWPL Loop-In Impact Comparison Map, the proposed refinements are minor and will not pose any noticeable changes. In addition, the permanent and temporary impact areas will be reduced by approximately 1.13 acres and approximately 0.41 acre, respectively, as a result of the proposed refinements, thus reducing the overall permanent impacts to visual resources. The fiber optic cable at the Southwest Powerlink (SWPL) loop-in will be placed approximately 30 feet above ground level; however, this change will be in character with the transmission line and will not be highly visible. Therefore, the refinement will be consistent with the construction and appearance of the structures that were analyzed in the Final EIR/EIS. Thus, the proposed refinements will not substantially increase the impacts to visual resources that were analyzed in the Final EIR/EIS. As discussed in the Final EIR/EIS, implementation of MMs VIS-3b and VIS-3c—which include reducing construction night-lighting impacts and reducing construction impacts to natural features by not using permanent paint to indicate construction limits—will ensure that temporary visual impacts during construction of the SWPL loop-in will be less than significant. In addition, MMs VIS-3e, VIS-3f, and VIS-3g were identified in the Final EIR/EIS to mitigate impacts to long-term landscape alteration and visual contrasts. The proposed refinements to the SWPL loop-in will be constructed in accordance with these MMs, including the revegetation of temporarily disturbed areas, minimization of vegetation removal where possible, and implementation of the Surface Treatment Plan. The activities associated with the construction and utilization of the refinement areas will be consistent with those described in the Final EIR/EIS for construction of the SWPL loop-in. Thus, as previously described, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to visual resources, which were determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Agriculture	*No Change*. As discussed in the Final EIR/EIS, the SWPL loop-in site is not located on or adjacent to lands designated as Important Farmlands or land entered into Williamson Act contracts. The proposed refinements are located in the general area described in the Final EIR/EIS and do not shift the SWPL loop-in into an agricultural zone. Therefore, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to agriculture, which was determined to be less than significant (Class III) in the Final EIR/EIS.
Air Quality	*No Change*. Activities associated with construction and utilization of the refinement areas will be consistent with those discussed in the Final EIR/EIS for construction of the SWPL loop-in. As described in Impact AIR-1 in the Final EIR/EIS, construction of the SWPL loop-in will generate elevated levels of dust and exhaust emissions, particularly from

EIR/EIS Section	Summary of Potential Impacts
	activities such as general construction, access road construction, structure foundation installation, and conductor stringing and sagging. The Final EIR/EIS also states that construction of the SWPL loop-in will exceed the daily significance thresholds for nitrogen oxide during construction activities. Further, the Final EIR/EIS stated that identified impacts would be unavoidable and adverse under the National Environmental Policy Act (NEPA), as the significance threshold could be exceeded. Though MMs would be implemented, impacts were determined to be significant and unable to be mitigated to a less-than-significant level (Class I). Grading for construction of the SWPL loop-in will decrease by approximately 1.54 acres from what was previously identified due to the proposed refinements. The amount of heavy equipment utilized, the duration of use, and the number of trips needed to construct the SWPL loop-in are not anticipated to change beyond what was analyzed in the Final EIR/EIS. In addition, the stringing of fiber optic ground wire was discussed in the Final EIR/EIS and the construction activities associated with the proposed refinements will be consistent with those discussed in the Final EIR/EIS. Therefore, equipment emissions and objectionable odors as a result of the refinements will be consistent with those described in the Final EIR/EIS. The expected construction duration associated with the refinements in this MPR will be similar to the schedule anticipated for construction of the originally approved Project. The proposed refinements do not result in a significant shift of any structure; therefore, the SWPL loop-in will not be located substantially closer to any sensitive receptors than what was analyzed in the Final EIR/EIS. The Project-specific Dust Control Plan and MMs AQ-1 and AQ-2—which include fugitive dust control measures, reduced idling times for construction equipment, cleaner engine technology, and appropriate transport of fill materials—will be implemented for the refinements. As a result, the total emissions for the refinements will be consistent with what was analyzed in the Final EIR/EIS. As previously described, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to air quality, which was determined to be significant and unmitigable (Class I) in the Final EIR/EIS.
Climate Change	*No Change*. The Climate Change section of the Final EIR/EIS calculates the maximum annual construction-related greenhouse gas emissions to be approximately 9,000 metric tons of carbon dioxide equivalent ($MTCO_2E$) per year, which is well under the NEPA threshold of 25,000 $MTCO_2E$ per year. As previously discussed in the Air Quality section, the amount of heavy equipment utilized, the duration of use, and the number of trips needed to construct the SWPL loop-in are not anticipated to increase beyond what was analyzed in the Final EIR/EIS as the refinements will result in a reduction in approximately 1.54 acres of grading. Therefore, the emissions associated with the requested refinement will not trigger an exceedance of the greenhouse gas emissions threshold. As a result, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to climate change, which was determined to be less than significant (Class III) in the Final EIR/EIS.

EIR/EIS Section	Summary of Potential Impacts
Biological Resources	*No Change*. The approved SWPL loop-in was surveyed for vegetation, wildlife, and rare plants during the initial jurisdictional surveys that were conducted for the Project and were assessed for impacts in the Final EIR/EIS, as shown in Attachment C: SWPL Loop-In Survey Results Map. Rare plant surveys were conducted for the Project between 2009 and 2013. The results of these surveys are detailed in the 2009, 2010, 2011, 2012, and 2013 Rare Plant Survey Reports for the Project. No sensitive plant species were identified in the requested refinement areas during the 2013 rare plant survey; therefore, the proposed refinement will not result in any adverse impacts to special-status plant species. A few special-status wildlife species—such as orange-throated whiptail (*Aspidoscelis hyperythra*), California horned lark (*Eremophila alpestris actia*), and San Diego black-tailed jackrabbit (*Lepus californicus bennettii*)—have the potential to occur within the refinement areas; however, all of these species were formerly identified and analyzed in previous wildlife surveys conducted for the Project; therefore, the proposed refinement will not result in any change in impacts to special-status wildlife species. In addition, in accordance with MM BIO-1c, all ground-disturbing and vegetation removal activities will be monitored by a CPUC- and BLM-approved Biological Monitor/Environmental Inspector. As a result of the refinements, the total permanent and temporary impacts to vegetation will decrease by approximately 1.13 acres and approximately 0.41 acre, respectively. All areas temporarily impacted will be restored following construction in accordance with the Project's Habitat Restoration Plan, which has been approved by the California Public Utilities Commission (CPUC) and the California Department of Fish and Wildlife (CDFW). As described in the preceding discussion, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to biological resources, which was determined to be significant and unmitigable (Class I) in the Final EIR/EIS.
Cultural and Paleontological Resources	*No Change*. The SWPL loop-in alignment was surveyed for cultural resources during pre-construction and cultural resources inventory work for the 2010 Final Report, *Prehistoric Artifact Scatters, Bedrock Milling Stations, and Tin Can Dumps: Results of a Cultural Resources Study for the SDG&E East County Substation Project* (Berryman and Whitaker, 2010). Overall, approximately 0.29 acre of potential impacts to cultural resources will be reduced as a result of this MPR request. In accordance with the Memorandum of Agreement and MM CUL-1A in the Final EIR/EIS, all ESAs located within 100 feet of work areas will be fenced or marked with other boundary-defining materials. In addition, Archaeological Monitors and Tribal Cultural Consultants will be present during initial ground disturbance and construction activities within 100 feet of ESAs. The proposed refinements are located within the same geological formation as the original SWPL loop-in that was analyzed in the EIR/EIS. The paleontological monitoring requirements at the refinement areas will remain unchanged. As previously described, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified potential impact to cultural or paleontological resources, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.

EIR/EIS Section	Summary of Potential Impacts
Geology, Mineral Resources, and Soils	*No Change*. The activities that will be performed at the requested refinement areas will be conducted in accordance with the uses described in the Project's Final EIR/EIS for the SWPL loop-in component. The reduction of approximately 1.13 acres of permanent impacts will occur as a result of the proposed refinements. Construction of the proposed refinements will be subject to the same best management practices (BMPs) that will be implemented for the whole SWPL loop-in, as required by the Linear Storm Water Pollution Prevention Plan (SWPPP) for the Project. As a result, no additional impacts to soils caused by erosion are anticipated. Geotechnical fault investigations conducted at the SWPL loop-in structure SD-6 confirmed that a fault line goes through the site, and SD-6 was shifted to avoid impacts. Because the shift of SD-6 is proposed in order to avoid the fault, no additional impacts to geology will result. There are no identified mines located within the refinement areas. The ground-disturbing activities that will be required to construct the SWPL loop-in will include grading and excavation, which is consistent with the Project's Final EIR/EIS. As a result, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to geology, mineral resources, and soils, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Public Health and Safety; Fire and Fuels Management	*No Change*. The activities performed and the materials utilized during construction of the refinement areas will occur in accordance with the description of uses provided in the Project's Final EIR/EIS. The refinement areas will not create new hazards, and construction will include the materials listed in Table D-10.2 of the Project's Final EIR/EIS and Table 1: Hazardous Materials and Uses of the Project's Hazardous Materials and Waste Management Plan. These materials were previously included in the Final EIR/EIS analysis, and all hazardous materials used will be handled and disposed of in accordance with the Project's Hazardous Materials and Waste Management Plan. In addition, construction in the refinement areas will be conducted in accordance with the Project's Health and Safety Program and Construction Fire Prevention Plan. As previously described, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to public health and safety or fire and fuels management, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Water Resources	*No Change*. The approved SWPL loop-in alignment was surveyed for drainages during the initial jurisdictional surveys that were conducted for the Project. The survey areas are depicted in Attachment C: SWPL Loop-In Survey Results Map. The refinements will not degrade water quality due to the implementation of the Project's Linear SWPPP, which will reduce erosion and sedimentation and prevent non-storm water from entering surface water or groundwater. No change in the amount of impervious surface will occur because the pads at the SWPL loop-in will not be paved. Grading will decrease by approximately 1.54 acres as a result of the proposed refinements; thus, the refinements will not result in an increase in water use during construction of the SWPL loop-in and no change to the Project's Construction Water Supply Plan will be needed as a result of the proposed refinements. The refinements associated with the SWPL loop-in will reduce permanent impacts to CDFW-jurisdictional drainages by approximately 0.0028 acre. In addition, permanent impacts to United States Army Corps of Engineers-jurisdictional drainages will decrease by approximately 0.0003 acre. Because the changes in impacts to jurisdictional drainages are so slight and permanent impacts are reduced, it is not necessary to amend or modify permits based on the

EIR/EIS Section	Summary of Potential Impacts
	final design of the SWPL loop-in. The refinement areas will be constructed using the same construction practices as those described in the Project's Final EIR/EIS. The BMPs provided in the Linear SWPPP will be implemented to reduce the potential for storm water runoff, erosion, sedimentation, and significant alterations to drainage patterns. As described in the preceding discussion, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to water resources, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Land Use	*No Change*. As discussed in the Final EIR/EIS, land use impacts would be significant under the California Environmental Quality Act if the Project disrupts a recently approved land use or results in a conflict with applicable land use plans, policies, or regulations and/or results in a division of an established community. As indicated in the Final EIR/EIS, the land on which the SWPL loop-in is located is designated as Multiple Rural Use in the County of San Diego General Plan and is currently undeveloped. The refinement areas will also be located on land designated as Multiple Rural Use in the County of San Diego General Plan. As a result, the construction and operation of the refinements will be consistent with the analysis in the Final EIR/EIS and will not conflict with any land use plans, policies, or regulations. No additional landowners will be affected beyond those noted in the Final EIR/EIS for construction of the SWPL loop-in because the land on which the SWPL Loop-in will be constructed is owned by SDG&E. As a result, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to land use, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Noise	*No Change*. The proposed refinements will be constructed and utilized in accordance with the description of construction activities and uses provided in the Project's Final EIR/EIS for the SWPL loop-in. As discussed in the Air Quality section of this MPR request, no additional noise-generating activities or heavy equipment will be required to construct the refinements, aside from the activities and equipment analyzed in the Final EIR/EIS. The proposed refinements will occur in areas already planned for disturbance; therefore, no new sensitive receptors will be affected. The overall construction schedule will not be affected by the refinements. Therefore, the impacts from noise will be consistent with those analyzed in the Final EIR/EIS for construction of the SWPL loop-in. Thus, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact related to noise, which was determined to be significant and unmitigable (Class I) in the Final EIR/EIS.

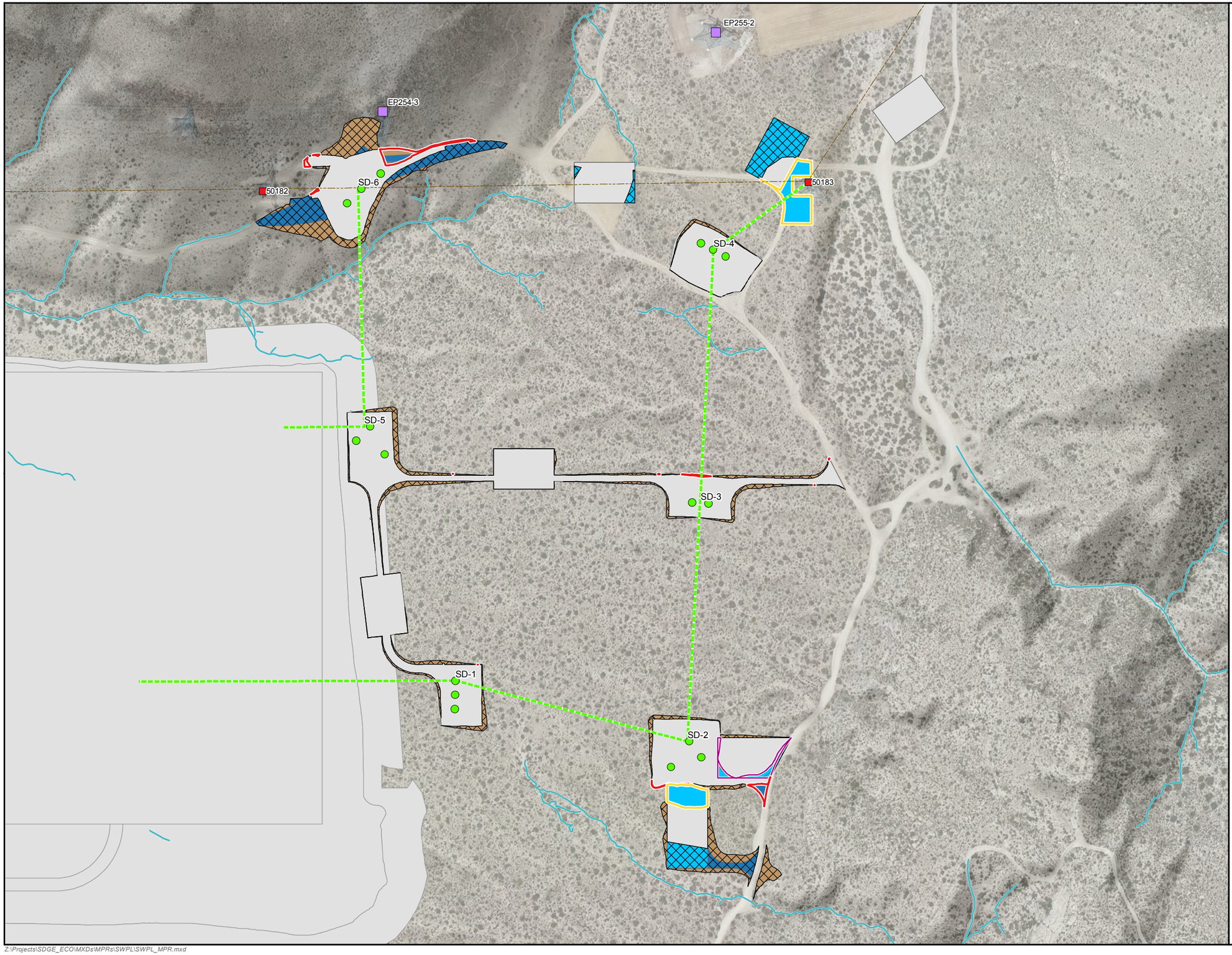
EIR/EIS Section	Summary of Potential Impacts
Social and Economic Conditions	*No Change*. The proposed refinements will be constructed in accordance with the description provided in the Project's Final EIR/EIS. The refinements will not cause any additional residential displacement nor will they have an effect on employment of construction personnel beyond what was analyzed in the Final EIR/EIS. As a result, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to social and economic conditions, which was determined to be less than significant (Class III) in the Final EIR/EIS.
Public Services and Utilities	*No Change*. The refinements will be constructed in accordance with the description provided in the Project's Final EIR/EIS. As previously discussed in the Water Resources section, grading will decrease by approximately 1.54 acres due to the proposed refinements; therefore, water required for dust control and soil compaction will not exceed what was already analyzed on a Project-wide basis. Furthermore, the overall construction schedule will not be affected, and no additional water trucks will be required beyond those anticipated for construction of the SWPL loop-in. The proposed refinements will not cause the SWPL loop-in to be located closer in proximity to any overhead or underground utilities, other than those identified in the Final EIR/EIS. As a result, the potential to disrupt existing utilities will not increase beyond that which was previously identified and analyzed in the Final EIR/EIS. In addition and as discussed in the Final EIR/EIS, implementation of MMs PSU-1a, PSU-1b, and PSU-1c—which include notification of utility service interruption, protection of underground utilities, and coordination with utility providers—will ensure that impacts remain less than significant. Construction of the proposed refinements will generate similar types and volumes of waste as those analyzed in the Final EIR/EIS for construction of the Project and will be managed in accordance with the Project's Hazardous Material and Waste Management Plan. As discussed in the MPR request form, the fiber optic cable proposed to be installed at the SWPL loop-in will provide communication services by integrating the ECO Substation into SDG&E's primary and redundant optical fiber physical layer network. The fiber optic system will provide a redundant, high-bandwidth path for the existing digital microwave communication system between San Diego, the ECO Substation, and the Imperial Valley Substation. As previously described, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to public services and utilities, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Wilderness and Recreation	*No Change*. The refinement areas will be located within the approved SWPL loop-in area. As provided in the Final EIR/EIS, the SWPL loop-in is located slightly east of the ECO Substation, for which the nearest recreation area is In-Ko-Pah Park (located approximately 1.2 miles northeast of the ECO Substation site, on the north side of Interstate 8). The proposed refinements will not be in closer proximity nor will they obstruct access to any wilderness or recreational areas. As a result, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to wilderness and recreation, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.
Transportation and Traffic	*No Change*. The refinement areas will be located within the general area of the approved SWPL loop-in. No additional construction vehicles and heavy equipment will be used for the refinements beyond those that were already required for construction of the approved

EIR/EIS Section	Summary of Potential Impacts
	SWPL loop-in. In addition, all construction activities associated with the refinements will be conducted in accordance with the ECO Substation Traffic Control Plan, which was approved by the CPUC on January 25, 2013. Therefore, the refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to transportation and traffic, which was determined to be less than significant with mitigation (Class II) in the Final EIR/EIS.

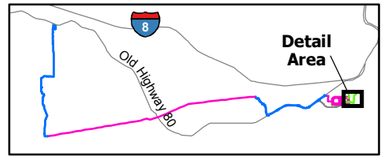
ATTACHMENT B: SWPL LOOP-IN IMPACT COMPARISON MAP

Attachment B:
SWPL Loop-In
Impact Comparison Map

East County Substation Project



- Existing Sunrise Tower
- Existing SWPL Structure
- SWPL Structure Foundation
- SWPL Loop-In Overhead
- Existing Transmission Line
- Drainage
- Removed Permanent/Temporary
- Temporary to Permanent
- Added Permanent
- Added Temporary
- No Change in Design/Impact
- Grading
- Pad/New Access Road
- Pull Site



SDGE A Sempra Energy utility

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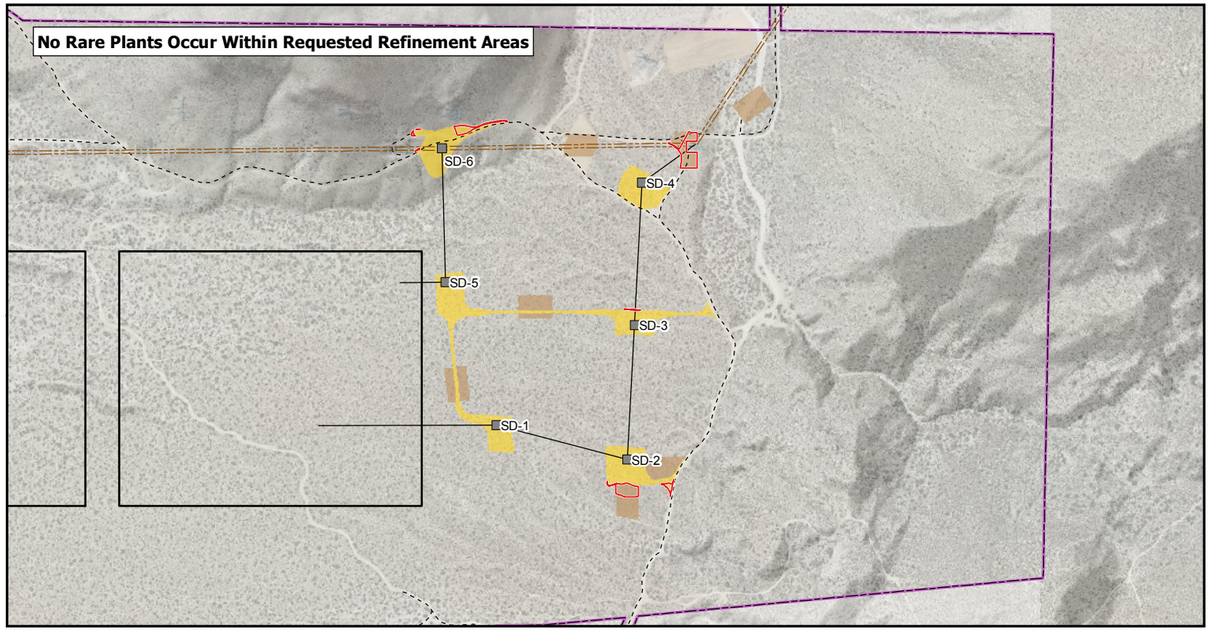
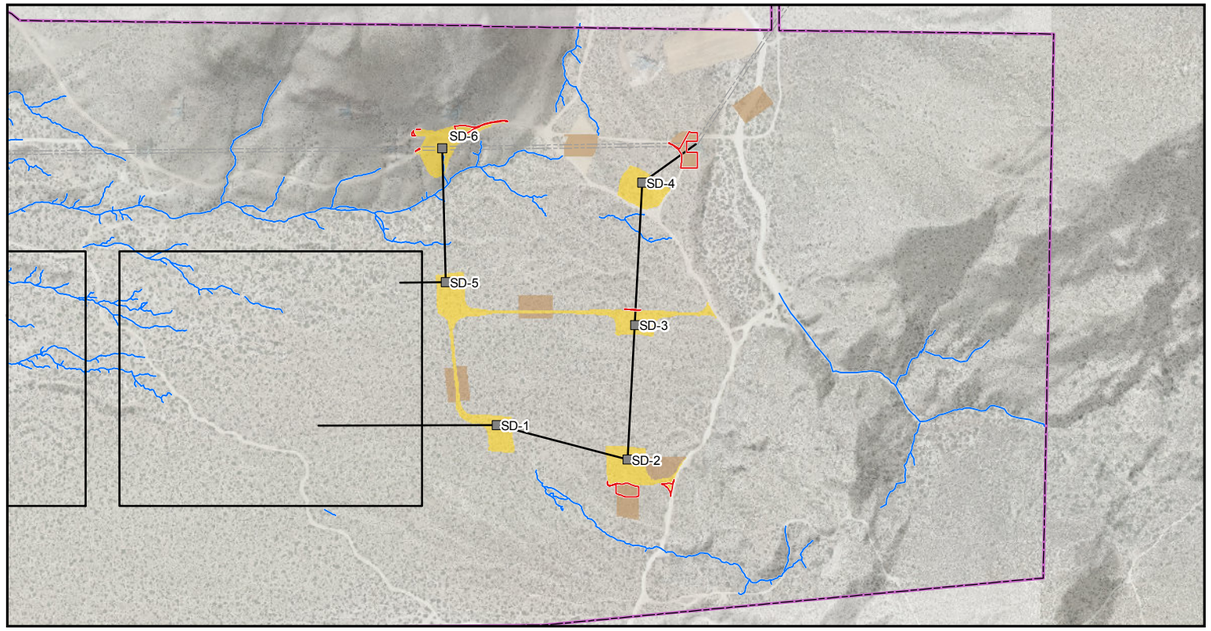
2/27/2014

ATTACHMENT C: SWPL LOOP-IN SURVEY RESULTS MAP

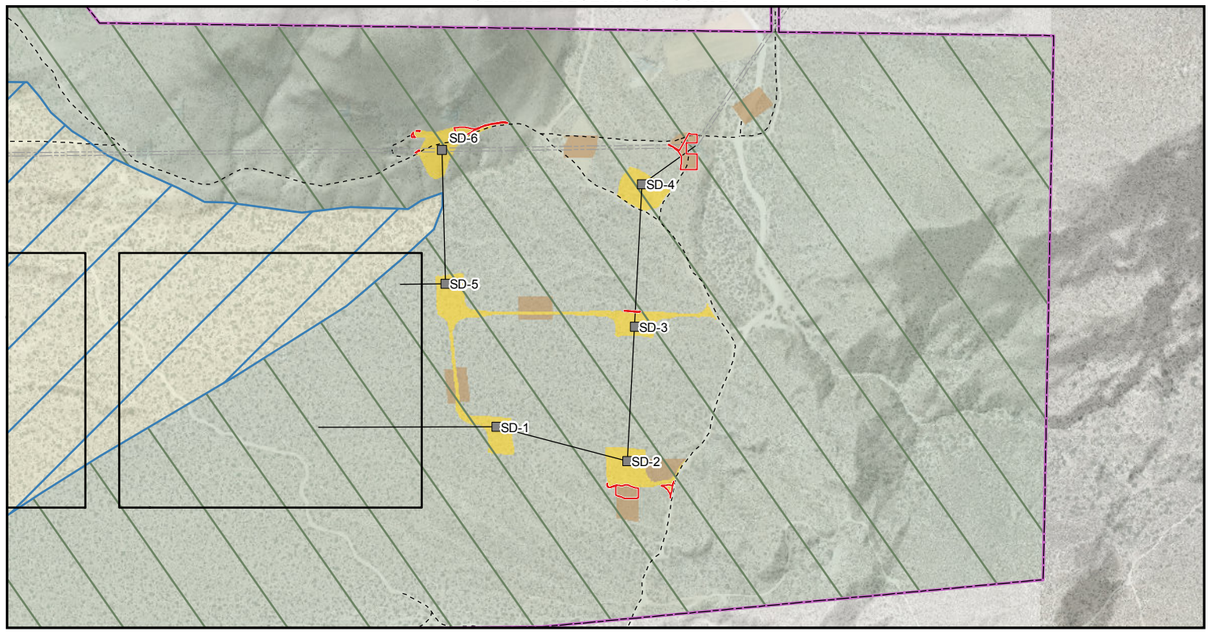
RARE PLANT SURVEY



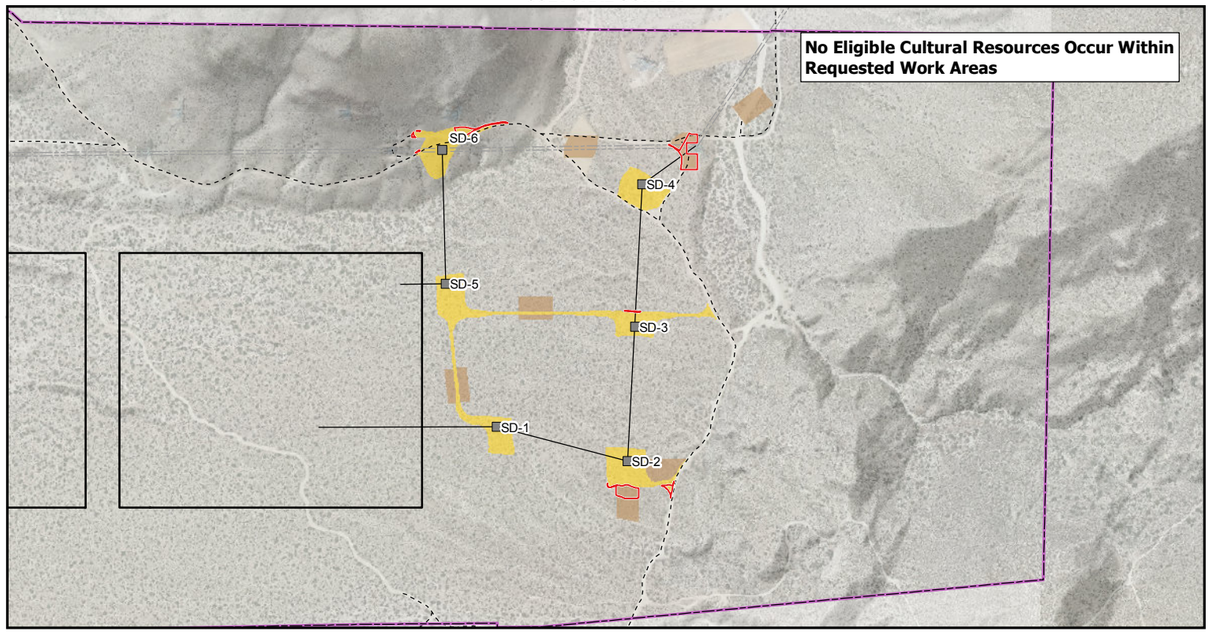
DRAINAGE SURVEY



GENERAL VEGETATION SURVEY



CULTURAL SURVEY



Attachment C: SWPL Loop-In Survey Results Map

East County Substation Project

Survey Area

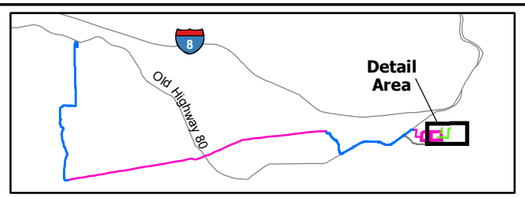
Final Design
- Permanent
- Temporary
- Substation Footprint
- Refinement
- SWPL Loop-In Structure
- SWPL Loop-In Overhead

Drainage

Vegetation Types
- Juniper Woodland
- Mixed Desert Scrub

Existing Transmission Line

Existing Access Road Centerline



SDGE Sempra Energy utility

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2/27/2014

ATTACHMENT D: EIR/EIS STUDY AREA TABLE

ATTACHMENT D: EIR/EIS STUDY AREA TABLE

Environmental Impact Report/Environmental Impact Statement (EIR/EIS) Study Area Table

Resource	Study Area from Final EIR/EIS	Location in Final EIR/EIS
Biological Resources	• Six parcels (498 acres total) on which the East County (ECO) Substation/Southwest Powerlink (SWPL) loop-in are located • 400-foot-wide corridor along the originally proposed 13.3-mile-long 138 kilovolt (kV) overhead transmission alignment, between the proposed ECO and Boulevard substation sites • Existing Boulevard Substation (within the fenced limits) • 8.5-acre Boulevard Substation Rebuild site • 377-acre alternative ECO Substation site[1] • 40 feet from the edge of the disturbed road on each side of the Old Highway 80 – Carrizo Gorge Road underground transmission line route alternative (ECO Partial Underground 138 kV Transmission Route Alternative) • 60-foot-wide corridor along the SWPL to Boulevard portion of the ECO Partial Underground 138 kV Transmission Route Alternative	• Page D.2-3 • Figures D.2-1 through D.2-3 • Proponent's Environmental Assessment (PEA) Page 4.4-3 • Page C-25 • Old Highway 80 – Carrizo Gorge Road Reroute Biological Resources and Jurisdictional Drainages Surveys Summary Report • Figure A-3 of San Diego Gas & Electric Company's comments on the Draft EIR/EIS
Visual Resources	Within five miles of the ECO Substation Project (Project) components and alternatives	Page D.3-3
Land Use	Land underlying and directly adjacent to the Project components and alternatives	Page D.4-1
Wilderness and Recreation	Recreation areas and facilities in southeastern San Diego and southwestern Imperial counties	• Page D.5-1 • Figure D.5-1B
Agriculture	All California Department of Conservation Farmland Mapping and Monitoring Program agricultural land in San Diego County	Pages D.6-1 and D.6-2

[1] The approved ECO Substation site is located approximately 700 feet east of the originally proposed location on three parcels totaling 377 acres. Additional information regarding the ECO Substation Alternative Site is provided on page C-25 of the Final EIR/EIS.

Resource	Study Area from Final EIR/EIS	Location in Final EIR/EIS
Cultural and Paleontological Resources	0.5-mile radius from Project components and approved alternatives[2]	• Pages D.7-2 through D.7-4 regarding information used (distance provided in the PEA section) • Pages C-25 through C-27
Noise	• Distance from closest property line or sensitive receptor from each Project component, including the following: - Approximately 500 feet from ECO Substation site - Approximately 1,320 feet from SWPL Loop-in site - Approximately 235 feet from the 138 kV transmission line - Approximately 500 feet from the Boulevard Substation site	Pages D.8-4 and D.8-5
Transportation and Traffic	• Roads in the Project vicinity, including the following: – Interstate 8 – State Route 94 – Old Highway 80 – Ribbonwood Road – McCain Valley Road – Tule Jim Lane – Jacumba National Cooperative – Carrizo Creek Road – Carrizo Gorge Road – Jewel Valley Road – Several unnamed dirt roads throughout the Project area • San Diego and Arizona Eastern Railway • Jacumba Airport and Empire Ranch airstrip • San Diego Metropolitan Transit Service Bus Route 888, providing service between El Cajon and Jacumba, California	Figures D.9-1A and D.9-1B

[2] The approved alternatives include the ECO Substation Alternative Site, as well as the ECO Partial Underground 138 kV Transmission Route Alternative alignments. Additional information regarding the approved alternative areas is provided on pages C-25 through C-27 of the Final EIR/EIS.

Resource	Study Area from Final EIR/EIS	Location in Final EIR/EIS
Public Health and Safety	Within two miles of the ECO Substation site and approximately 14-mile-long overhead transmission line alignment	• Page D.10-2 • Page ES-1 of the Phase I Environmental Site Assessment of the 377-acre ECO Substation site parcels • Page 5 of the Limited Phase I Environmental Site Assessment for the transmission alignment
Air Quality	San Diego Air Basin	Page D.11-6
Water Resources	Colorado River Basin	Page D.12-2
Geology, Mineral Resources, and Soils	• Within 40 miles for faults • Within 0.5 mile of land underlying Project components and alternatives	Page D.13-1, Figure D.13-1
Public Services and Utilities	• Within 60 miles for landfills • Within five miles for all other public services and utilities	Page D.14-27
Fire and Fuels Management	Greater eastern San Diego County	Page D.15-1, Figures D.15-1A and D.15-1B
Social and Economic Conditions	Mountain Empire Subregion (Jacumba, Boulevard, Tecate, Potrero, and Campo)	Page D.16-2
Environmental Justice	Mountain Empire Census County Division	Page D.17-1
Climate Change	California	Page D.18-2