

Mitigation Monitoring and Reporting Program for the

Cal Poly Water Reclamation Facility Project



State Clearinghouse No. 2022090231

Prepared for:



California Polytechnic State University, San Luis Obispo

January 2024

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Prepared for:

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MITIGATION MONITORING AND REPORTING PROGRAM

In accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.), California Polytechnic State University, San Luis Obispo (Cal Poly) prepared an environmental impact report (EIR) (State Clearinghouse No. 2022090231) for the proposed Cal Poly Water Reclamation Facility (WRF Project or project) that identified significant impacts related to aesthetics; archaeological, historical, and tribal cultural resources; biological resources; hydrology and water quality; and utilities and service systems. In addition, the project could potentially result in impacts already disclosed in the Environmental Impact Report for the Cal Poly 2035 Master Plan (State Clearinghouse No. 2016101003) (hereafter referred to as "Campus Master Plan EIR"), and applicable Campus Master Plan EIR mitigation measures for those impacts, and the applicable monitoring requirements are incorporated by reference herein. Significant cumulative impacts would not occur under the project.

CEQA Section 21081.6(a)(1) and the State CEQA Guidelines Sections 15091(d) and 15097 require public agencies to adopt a reporting and monitoring program for changes made to the project that it has adopted or made a condition of project approval to mitigate or avoid significant effects on the environment. A mitigation monitoring and reporting program (MMRP) has been prepared for the project because the EIR identifies significant adverse impacts related to project implementation, and mitigation measures have been identified to reduce those impacts. The MMRP would be adopted in conjunction with the project EIR.

PURPOSE OF MITIGATION MONITORING AND REPORTING PROGRAM

This MMRP has been prepared to ensure that all required mitigation measures are implemented and completed in a satisfactory manner before and during project construction and operation, as applicable.

Table 1 presented below has been prepared to assist the responsible parties in implementing the mitigation measures. It identifies the impact, individual mitigation measures associated with each impact, monitoring responsibility, and mitigation timing. The table also provides space to confirm implementation of the mitigation measures after project approval. The numbering of mitigation measures follows the numbering sequence found in the EIR. Mitigation measures that are referenced more than once in the Draft EIR are not duplicated in the MMRP table.

ROLES AND RESPONSIBILITIES

Unless otherwise specified, Cal Poly is responsible for taking all the actions necessary to implement the mitigation measures under its jurisdiction according to the specifications provided for each measure and for demonstrating that the action has been successfully completed. Cal Poly, at its discretion, may delegate implementation responsibility or portions of it to a licensed contractor or other designated agent.

CEQA Section 21081.6 requires the lead agency to identify the "custodian of documents or other material" that constitutes the "record of proceedings" on which its decision is based. Cal Poly is the custodian of the documents associated with the project EIR. Inquiries regarding these documents should be directed to:

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The location of this information is:

California Polytechnic State University
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Cal Poly is responsible for overall administration of this MMRP and for verifying that Cal Poly staff, the construction contractor, and other designated parties have completed the necessary actions for each measure. The parties

responsible for implementing each measure are responsible for identifying, coordinating with, and reporting to designated Cal Poly staff monitoring implementation of the MMRP.

REPORTING

Cal Poly shall require contractor(s) to maintain records documenting compliance with the required mitigation measures. Information regarding inspections and other requirements shall be compiled and explained in monthly reports. The reports shall be designed to simply and clearly identify whether mitigation measures have been adequately implemented. At a minimum, each report shall identify the mitigation measures or conditions to be monitored for implementation, how and when compliance with the mitigation measures or conditions has occurred, the procedures used to assess compliance, and whether further action is required.

MITIGATION MONITORING AND REPORTING PROGRAM TABLE

As noted above, the WRF Project EIR incorporates applicable mitigation measures from the Campus Master Plan EIR. The Campus Master Plan EIR broadly examined the significant environmental effects that could result from implementing the Campus Master Plan, including the WRF. Mitigation measures brought forward from the Campus Master Plan EIR verbatim are identified in the MMRP table (Table 1) as such (i.e., Campus Master Plan EIR Mitigation Measure 3.3-2: Implement Dust and Exhaust Emissions Reduction Measures). Where mitigation measures are substantially similar to those in the Campus Master Plan EIR but include some minor modifications to apply specifically to the WRF project, the mitigation measure number of the applicable Campus Master Plan EIR mitigation measure is included in parentheses after the project mitigation measure title in Table 1. All mitigation measures included in Table 1 are described in detail in the WRF Project EIR.

The following categories are identified in Table 1:

- ▶ Impact – This column provides the title of the identified impact.
- ▶ Mitigation Measure – This column provides the verbatim text of the adopted mitigation measure.
- ▶ Monitoring and Reporting Procedure – This column identifies discrete actions to be implemented as part of the broader mitigation measure.
- ▶ Timing – This column identifies the time frame in which the mitigation will be implemented. The notes at the bottom of each page of the table explain the abbreviations used in the Timing column to indicate the required project stage for mitigation implementation.
- ▶ Verification – This column is used to identify the party responsible for verifying compliance and is to be dated and signed by that party (either the project manager or the project manager's designee).

Table 1 Water Reclamation Facility Project Final EIR Mitigation Monitoring and Reporting Program

Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
Aesthetics					
Impact 3.2-3: Create a New Source of Substantial Light or Glare Which Would Adversely Affect Day or Nighttime Views	Mitigation Measure 3.2-3a: Use Nonreflective Materials on Building Surfaces (Campus Master Plan EIR Mitigation Measure 3.1-3a) Cal Poly shall require the use of nonreflective exterior surfaces and nonreflective (mirrored) glass for all new or redeveloped structures.	Review building design plans before final design approval. Inspect new or redeveloped structures following completion of construction.	DE, CO	Before final design approval, during construction	Cal Poly Facilities Management and Development
	Mitigation Measure 3.2-3b: Use Directional Lighting for Campus Development (Campus Master Plan EIR Mitigation Measure 3.1-3c) Cal Poly shall require all new, permanent outdoor lighting fixtures to utilize directional lighting methods (e.g., shielding and/or cutoff-type light fixtures) to minimize glare and light spillover onto adjacent structures. In addition, light placement and orientation shall also be considered such that light spillover is reduced at nearby land uses, to the extent feasible. Verification of inclusion in project design shall be provided at the time of design review.	Review lighting plans before final design approval. Inspect new, permanent outdoor lighting fixture placement and orientation following completion of construction.	DE, CO	Before final design approval, during construction	Cal Poly Facilities Management and Development
Air Quality					
Campus Master Plan EIR Impact 3.3-2: Cause Construction-Generated Criteria Air Pollutant or Precursor Emissions to Exceed APCD-Recommended Thresholds	Campus Master Plan EIR Mitigation Measure 3.3-2: Implement Dust and Exhaust Emissions Reduction Measures Based on the APCD CEQA Handbook, Cal Poly shall ensure that construction contractors implement the following measures for all 2035 Master Plan development: <u>Standard Construction Emission Reduction Measures for All Projects</u> <ul style="list-style-type: none"> ▶ Staging and queuing areas or diesel idling associated with equipment used during construction of new/renovated buildings on campus shall not be located within 1,000 feet of sensitive receptors. This distance can be adjusted if it can be demonstrated to Cal Poly by the construction contractor, with substantial evidence, that risk levels at nearby receptors would not exceed an estimated risk of 10 chances in a million. 	Incorporate measures as part of construction specifications. Document measures in all grading and building plans. Inspect construction site at regular intervals during construction to verify compliance with specified construction-generated emissions reduction measures.	DE, CO	During project design, at regular intervals throughout construction period	Cal Poly Facilities Management and Development

Project stage at which implementation of the measure is required - SS=site selection; DE=detailed project planning or project design prior to project approval; CO=prior to or during construction; OC=prior to occupancy; OP=prior to or during operation

Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<ul style="list-style-type: none"> ▶ Off-road diesel equipment shall comply with the 5-minute idling restriction identified in Section 2449(d)(3) of CARB's In-Use Off-Road Diesel regulation. ▶ Signs shall be posted in the designated queuing areas and job sites to remind off-road equipment operators of the 5-minute idling limit. ▶ Reduce the amount of the disturbed area where possible. ▶ Use water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site and from exceeding the APCD's limit of 20 percent opacity for greater than 3 minutes in any 60-minute period. Increase watering frequency whenever wind speeds exceed 15 miles per hour. Use reclaimed (non-potable) water whenever possible. Please note that during drought conditions, water use may be a concern and the contractor or building shall consider the use of an APCD-approved dust suppressant where feasible to reduce the amount of water used for dust control. ▶ All dirt stockpile areas shall be sprayed daily as needed. ▶ Permanent dust control measures identified in the approved project revegetation and landscape plans shall be implemented as soon as possible following the completion of any soil disturbing activities. ▶ Exposed ground areas that are planned to be reworked at dates greater than one month after initial grading will be sown with fast germinating, non-invasive grass seed and watered until vegetation is established. ▶ All disturbed soil areas not subject to revegetation shall be stabilized using approved chemical soil binders, jute netting, or other methods approved in advance by APCD. ▶ All roadways, driveways, sidewalks, etc. to be paved shall be completed as soon as possible. In addition, building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. ▶ Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at the construction site. 				

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	<ul style="list-style-type: none"> ▶ All trucks hauling dirt, sand, soil, or other loose materials shall be covered or should maintain at least two feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with California Vehicle Code (CVC) Section 23114. ▶ Install wheel washers where vehicles enter and exit unpaved roads onto streets or wash off trucks and equipment leaving the site. "Track-out" is defined as sand or soil that adheres to and/or agglomerates on the exterior surfaces of motor vehicles and/or equipment (including tires) that may then fall onto any highway or street as described in CVC Section 23113 and California Water Code Section 13304. To prevent track-out, designate access points and require all employees, subcontractors, and others to use them. Install and operate a "track-out prevention device" where vehicles enter and exit unpaved roads onto paved streets. The track-out prevention device can be any device or combination of devices that are effective at preventing track-out, located at the point of intersection of an unpaved area and a paved road. Rumble strips or steel plate devices require periodic cleaning to be effective. If paved roadways accumulate tracked out soils, the track-out prevention device may need to be modified. ▶ Sweep streets at the end of each day if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed water should be used where feasible. ▶ All of these fugitive dust mitigation measures shall be included on grading and building plans. ▶ Maintain all construction equipment in proper tune according to manufacturer's specifications. ▶ Fuel all off-road and portable diesel-powered equipment with CARB-certified motor vehicle diesel fuel (non-taxed version suitable for use off-road). ▶ Electrify equipment when feasible. ▶ Substitute gasoline-powered in place of diesel-powered equipment, where feasible. 				

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	<ul style="list-style-type: none"> ▶ All architectural coatings (e.g., paint) used in project buildings and parking areas will not exceed a volatile organic compound content of 50 grams per liter. ▶ Use diesel construction equipment meeting CARB's Tier 2 certified engines or cleaner off-road heavy-duty diesel engines and comply with the State Off-Road Regulation. ▶ Use on-road heavy-duty trucks that meet the CARB's 2007 or cleaner certification standard for on-road heavy-duty diesel engines and comply with the State On-Road Regulation. ▶ Construction or trucking companies with fleets that do not have engines in their fleet that meet the engine standards identified in the above two measures (e.g. captive or NOx exempt area fleets) may be eligible by proving alternative compliance. ▶ Use alternatively fueled construction equipment on-site where feasible, such as compressed natural gas (CNG), liquefied natural gas (LNG), propane or biodiesel. <p>For individual projects proposed under the 2035 Master Plan, APCD screening criteria (rather than emissions modeling) shall be applied to determine if emissions from the project would be below the adopted numeric thresholds. If an individual project would exceed the screening criteria, project-specific emissions modeling shall be conducted to determine if APCD's adopted numeric project-level thresholds would be exceeded. If emissions modeling demonstrates that the individual project's operational emissions would exceed the APCD thresholds, the following mitigation measures would apply in addition to the Standard Construction Emission Reduction Measures described above.</p> <p><u>Enhanced Construction Emission Reduction Measures for Individual Projects that Exceed APCD Thresholds</u></p> <ul style="list-style-type: none"> ▶ Implement Best Available Control Technologies (BACT) and a Dust Control Management Plan that encompasses all, but is not limited to, dust control measures that were listed above in the "Standard" measures section; 				

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	<ul style="list-style-type: none"> ▶ further reducing emissions by expanding use of Tier 3 and Tier 4 off-road and 2010 on-road compliant engines; ▶ repowering equipment with the cleanest engines available; ▶ installing California Verified Diesel Emission Control Strategies, listed at arb.ca.gov/diesel/verdev/vt/cvt.htm; ▶ tabulation of on- and off-road construction equipment (age, horsepower, miles, and/or hours of operation); ▶ schedule of construction truck trips during non-peak hours to reduce peak hour emissions; ▶ limit the length of the construction work day period, if necessary; and phase construction activities, if appropriate. 				
<p>Campus Master Plan EIR Impact 3.3-6: Result in Other Emissions (Such as Those Leading to Odors) Adversely Affecting a Substantial Number of People</p>	<p>Campus Master Plan EIR Mitigation Measure 3.3-6: Prepare an Odor Control Plan</p> <p>The following odor management conditions will be implemented by Cal Poly with respect to the WRF prior to its operation and would be consistent with the conditions of the site's Authority to Control or Permit to Operate issued by APCD:</p> <ul style="list-style-type: none"> ▶ Cal Poly will prepare an Odor Control Plan (OCP), which will include known feasible measures to minimize the potential for a substantial odor increase at receptors within 1 mile of the WRF and will identify the facility's odor abatement system equipment, the system performance monitoring protocols, and the procedures for investigating and correcting public complaints. The APCD will ensure the OCP is consistent and not in conflict with the APCD requirements. All complaints received by facility management will be investigated and documented, and if verified, appropriate response action will be taken. The facility will provide a 24-hour hotline for public complaints, and the number will be posted at the facility entrance. 	<p>Develop and implement Odor Control Plan consistent with APCD requirements before WRF and lift station operations begin.</p>	<p>DE, OP</p>	<p>Before WRF and lift station operations begin, on a continuing basis during operations with annual reporting</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
<p>Archaeological, Historical, and Tribal Cultural Resources</p>					
<p>Impact 3.3-2: Cause a Substantial Adverse Change in the Significance of a Unique Archaeological Resource</p>	<p>Mitigation Measure 3.3-2a: Identify and Protect Unknown Archaeological Resources (Campus Master Plan EIR Mitigation Measure 3.4-2a)</p> <p>Cal Poly has determined the level of archaeological investigation that is appropriate for the project site and activity, as follows:</p> <ul style="list-style-type: none"> ▶ Intensive: excavation below 18 inches and/or over a large area on any site that is within the zone of archaeological sensitivity, i.e., within 750 feet, along Brizzolara Creek or Stenner/Old Garden Creek (as shown in Figure 3.4-1 of the Campus Master Plan EIR) or that is adjacent to a recorded archaeological site. <p>Therefore, Cal Poly shall implement the following steps to identify and protect archaeological resources that may be present in the project's area of effects:</p> <ol style="list-style-type: none"> 1) Contractor crews shall be required to attend a training session before the start of ground-disturbing activities, regarding how to recognize archaeological sites and artifacts and what steps shall be taken to avoid impacts to those sites and artifacts. In addition, campus employees whose work routinely involves disturbing the soil shall be informed how to recognize evidence of potential archaeological sites and artifacts. Before disturbing the soil, contractors shall be notified that they are required to watch for potential archaeological sites and artifacts and to notify Cal Poly Facilities Management and Development if any are found. A qualified archeologist and Tribal monitor would be present onsite during ground-disturbing activities to provide oversight to contractor crew and campus employees. In the event of a find, Cal Poly shall implement item (5), below. 	<p>Provide cultural resources training program to construction personnel and employees involved in regular ground-disturbing activities.</p> <p>Develop an archaeological monitoring plan to be implemented during construction.</p> <p>Retain a qualified archaeologist to conduct a subsurface investigation of the project site.</p> <p>Prepare a site record and a written report of the results of investigations and file it with the appropriate information center, if an archaeological deposit that qualifies as a historical resource or a unique archaeological resource is discovered.</p> <p>Consult with the qualified archaeologist to consider means of avoiding or reducing ground disturbance within the site.</p> <p>Cease soil-disturbing work within 100 feet of any archaeological material discovered during construction, and contact a qualified archaeologist to provide and implement a plan for survey, subsurface investigation as needed to define the deposit, and assessment of the remainder of the site within the project area.</p>	<p>SS, DE, CO</p>	<p>During site selection, during project design, before and during construction, during regular ground-disturbing operations</p>	<p>Cal Poly Facilities Management and Development</p>

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	<p>2) The qualified archaeologist shall, in consultation with Cal Poly Facilities Management and Development, develop an archaeological monitoring plan to be implemented during the construction phase of the project. For construction activities that would be located within 750 feet of Brizzolara Creek, Stenner Creek, or Old Garden Creek, or it is recommended by the archaeologists, Cal Poly shall notify the appropriate Native American tribe and extend an invitation for monitoring. The frequency and duration of monitoring shall be adjusted in accordance with survey results, the nature of construction activities, and results during the monitoring period. A written report of the results of the monitoring shall be prepared and filed with the appropriate Information Center of the California Historical Resources Information System. In the event of a discovery, Cal Poly shall implement item (5), below.</p> <p>3) Cal Poly shall retain a qualified archaeologist to conduct a subsurface investigation of the project site, to ascertain whether buried archaeological materials are present and, if so, the extent of the deposit relative to the project's area of effects. If an archaeological deposit is discovered, the archaeologist shall prepare a site record and a written report of the results of investigations and file with the appropriate Information Center of the California Historical Resources Information System.</p> <p>4) If it is determined that a resource extends into the project's area of effects, the resource shall be evaluated by a qualified archaeologist, who shall determine whether it qualifies as a historical resource or a unique archaeological resource under the criteria of State CEQA Guidelines Section 15064.5.</p> <p>5) If archaeological material within the project's area of effects is determined to qualify as an historical resource or a unique archaeological resource (as defined by CEQA), Cal Poly Facilities Management and Development shall consult with the qualified archaeologist to consider means of avoiding or reducing ground disturbance within the site</p>				

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	<p>boundaries, including minor modifications of building footprint, landscape modification, the placement of protective fill, the establishment of a preservation easement, or other means that shall permit avoidance or substantial preservation in place of the resource. If avoidance or substantial preservation in place is not possible, Cal Poly shall implement Mitigation Measure 3.3-2b.</p> <p>6) If archaeological material is discovered during construction (whether or not an archaeologist is present), all soil disturbing work within 100 feet of the find shall cease. Cal Poly Facilities Management and Development shall contact a qualified archaeologist to provide and implement a plan for survey, subsurface investigation as needed to define the deposit, and assessment of the remainder of the site within the project area to determine whether the resource is significant and would be affected by the project. Cal Poly shall implement item (3) and (4), above.</p>				
	<p>Mitigation Measure 3.3-2b: Protect Known Unique Archaeological Resources (Campus Master Plan EIR Mitigation Measure 3.4-2b)</p> <p>For an archaeological site that has been determined by a qualified archaeologist to qualify as a unique archaeological resource through the process set forth under Mitigation Measure 3.3-2a, and where it has been determined under Mitigation Measure 3.3-2a that avoidance or preservation in place is not feasible, a qualified archaeologist, in consultation with Cal Poly Facilities Management and Development, and Native American tribes as applicable, shall:</p> <ol style="list-style-type: none"> 1) Prepare a research design and archaeological data recovery plan for the recovery that shall capture those categories of data for which the site is significant and implement the data recovery plan before or during development of the site. 2) Perform appropriate technical analyses, prepare a full written report and file it with the appropriate information 	<p>Retain a qualified archaeologist who shall perform work as specified.</p>	<p>SS, DE</p>	<p>During site selection and/or project design</p>	<p>Cal Poly Facilities Management and Development</p>

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	<p>center, and provide for the permanent curation of recovered materials.</p> <p>3) If, in the opinion of the qualified archaeologist and in light of the data available, the significance of the site is such that data recovery cannot capture the values that qualify the site for inclusion on the CRHR, Cal Poly Facilities Management and Development shall reconsider project plans in light of the high value of the resource, and implement more substantial modifications to the project that would allow the site to be preserved intact, such as project redesign, placement of fill, or project relocation or abandonment. If no such measures are feasible, Cal Poly shall implement Mitigation Measure 3.3-2c.</p>				
	<p>Mitigation Measure 3.3-2c: Document Unique Archaeological Resources (Campus Master Plan EIR Mitigation Measure 3.4-2c)</p> <p>If a significant unique archaeological resource cannot be preserved intact, before the property is damaged or destroyed, Cal Poly Facilities Management and Development shall ensure that the resource is appropriately documented. For an archaeological site, a program of research-directed data recovery shall be conducted and reported, consistent with Mitigation Measure 3.3-2a.</p>	<p>Retain a qualified archaeologist who shall perform work as specified.</p>	<p>DE</p>	<p>During project design</p>	<p>Cal Poly Facilities Management and Development</p>
<p>Impact 3.3-4: Cause a Substantial Adverse Change in the Significance of a Tribal Cultural Resource</p>	<p>Mitigation Measure 3.3-4a: Identify and Protect Unknown Archaeological Resources (Campus Master Plan EIR Mitigation Measure 3.4-2a)</p> <p>Implement Mitigation Measure 3.3-2a.</p>	<p>See Mitigation Measure 3.3-2a.</p>	<p>See Mitigation Measure 3.3-2a.</p>	<p>See Mitigation Measure 3.3-2a.</p>	<p>See Mitigation Measure 3.3-2a.</p>
	<p>Mitigation Measure 3.3-4b: Protect Known Unique Archaeological Resources (Campus Master Plan EIR Mitigation Measure 3.4-2b)</p> <p>Implement Mitigation Measure 3.3-2b.</p>	<p>See Mitigation Measure 3.3-2b.</p>	<p>See Mitigation Measure 3.3-2b.</p>	<p>See Mitigation Measure 3.3-2b.</p>	<p>See Mitigation Measure 3.3-2b.</p>
	<p>Mitigation Measure 3.3-4c: Document Unique Archaeological Resources (Campus Master Plan EIR Mitigation Measure 3.4-2c)</p> <p>Implement Mitigation Measure 3.3-2c.</p>	<p>See Mitigation Measure 3.3-2c.</p>	<p>See Mitigation Measure 3.3-2c.</p>	<p>See Mitigation Measure 3.3-2c.</p>	<p>See Mitigation Measure 3.3-2c.</p>

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	<p>Mitigation Measure 3.3-4d: Retain a Native American Monitor Cal Poly shall retain a tribal monitor/consultant who is approved by the Salinan Tribe of Monterey and San Luis Obispo Counties, the Northern Chumash Tribal Council, and the yak tit'u tit'u yak ti'hini (Northern Chumash Tribe) to monitor ground-disturbing activities, including tree removal, grading, boring, excavation, drilling, and trenching, during project construction that would occur within the Zone of Cultural Sensitivity identified in Figure 3.4-1 of the Cal Poly 2035 Master Plan Final Environmental Impact Report (EIR) and areas within 100 feet of known prehistoric sites. Cal Poly's designated contact person shall notify the tribal representative a minimum of 7 days before beginning ground-disturbing activities and the tribal representative shall confirm the tribal monitor at least 48 hours before ground-disturbing activities are scheduled to begin. If confirmation is not provided, ground-disturbing activities may proceed without the presence of a tribal monitor. The tribal monitor and archaeological monitor shall complete daily monitoring logs that describe each day's activities, including construction activities, locations, soil, and any cultural materials identified. The monitoring logs will be emailed to the Salinan Tribe of Monterey and San Luis Obispo Counties, Northern Chumash Tribal Council, yak tit'u tit'u yak ti'hini (Northern Chumash Tribe), Cal Poly's archaeologist, and the designated Cal Poly contact person on a weekly basis. The onsite monitoring shall end when the site grading and excavation activities are completed or when the tribal representatives and monitor have indicated that the site has a low potential for affecting tribal cultural resources.</p>	<p>Retain a tribal monitor/consultant to monitor ground-disturbing activities during project construction.</p>	<p>CO</p>	<p>Before and during project construction</p>	<p>Cal Poly Facilities Management and Development</p>
<p>Biological Resources</p>					
<p>Impact 3.4-1: Have a Substantial Adverse Effect, Either Directly or through Habitat Modifications, on</p>	<p>Mitigation Measure 3.4-1a: Conduct Special-Status Plant Surveys (Campus Master Plan EIR Mitigation Measure 3.5-1a) Prior to project implementation, Cal Poly shall have a qualified botanist (i.e., a professional biologist with expertise in native and naturalized plants found in California who is able to use</p>	<p>Ensure that a rare plant survey of the project site is conducted, and that findings are documented, by a qualified biologist.</p>	<p>DE, CO</p>	<p>During appropriate season, as specified in measure;</p>	<p>Cal Poly Facilities Management and Development</p>

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<p>Special-Status Plant Species</p>	<p>appropriate field survey methods and protocols that satisfy documentation and assessment requirements) evaluate the potential for special-status plant habitat at the proposed project sites containing undeveloped land cover types as shown in Figure 3.4-1, "Land Cover within the Project Site," of the WRF Project EIR. Should suitable habitat for any special status plant species be identified, the qualified botanist, at Cal Poly's direction, shall conduct protocol-level surveys during the blooming period(s) for the potentially occurring special-status plants that could be removed or disturbed by project activities. Protocol-level surveys shall be conducted in accordance with <i>Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities</i> (CDFW 2018).</p> <p>Concurrent with the special-status plant survey, the botanist shall document and map any sensitive natural communities that are present. In addition, the botanist shall document invasive plants within the project site and provide a separate report with the location and extent of invasive plants within the project site to Cal Poly. If special-status plants are not found, the botanist shall document the findings in a letter report to Cal Poly and further mitigation shall not be required.</p>			<p>before final project design approval; before construction</p>	
	<p>Mitigation Measure 3.4-1b: Conduct Special-Status Plant Avoidance (Campus Master Plan EIR Mitigation Measure 3.5-1b)</p> <p>If special-status plant species are found on the project site during the protocol-level surveys required by Mitigation Measure 3.4-1a but are located outside of the permanent footprint of any proposed structures/site features and can be avoided, Cal Poly shall avoid and protect these species by establishing a no-disturbance buffer around the area occupied by special-status plants and marking the buffer boundary with high-visibility flagging, fencing, stakes, or clear, existing landscape demarcations (e.g., edge of a roadway); exceptions to this requirement are listed later in this measure. The no-disturbance buffers shall generally be a minimum of 40 feet from special-status plants, but the size and shape of the buffer zone may be adjusted if a qualified botanist determines that a smaller buffer is sufficient to avoid killing or damaging the</p>	<p>Monitor implementation of avoidance measures, if any are needed, during construction.</p>	<p>CO</p>	<p>Periodically during construction</p>	<p>Cal Poly Facilities Management and Development</p>

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	<p>plants or that a larger buffer is necessary to sufficiently protect plants from the proposed activity. The appropriate buffer size shall be determined based on plant phenology at the time of project initiation (e.g., whether the plants are in a dormant, vegetative, or flowering state), the individual species' vulnerability to the activity being conducted, and environmental conditions and terrain. Consideration of factors such as site hydrology, changes in light, edge effects, and potential introduction of invasive plants and noxious weeds may inform the determination of buffer width. If a no-disturbance buffer is reduced below 40 feet from a special-status plant, a qualified botanist shall provide a site- and/or activity-specific explanation with the biological technical justification for the buffer reduction, which shall be included in a memo to CDFW and Cal Poly.</p>				
	<p>Mitigation Measure 3.4-1c: Minimize and Compensate for Impacts to Special-Status Plants (Campus Master Plan EIR Mitigation Measure 3.5-1c)</p> <p>If special-status plants are found during protocol-level rare plant surveys and cannot be avoided, Cal Poly shall consult with CDFW and USFWS, as appropriate depending on species status, to determine the appropriate action(s) to achieve no net loss of occupied habitat or individuals. Mitigation measures may include, but are not limited to, preserving and enhancing existing populations, creating off-site populations on mitigation sites through seed collection or transplantation at a 3:1 ratio, and restoring or creating suitable habitat in sufficient quantities which would collectively achieve no net loss of occupied habitat or individuals. Potential mitigation sites could include suitable transplant locations within or outside of the campus. Cal Poly shall develop and implement a site-specific mitigation strategy describing how unavoidable losses of special-status plants shall be compensated consistent with this mitigation measure and the no net loss standard. Success criteria for preserved and compensatory populations shall include:</p>	<p>Consult with CDFW and USFWS, as appropriate, to determine the appropriate action(s) to achieve no net loss of occupied habitat or individuals.</p> <p>Develop and implement a mitigation strategy describing how unavoidable losses of special-status plants shall be compensated for.</p>	CO, OP	Before construction, monitoring annually for a minimum of 5 years following construction	Cal Poly Facilities Management and Development

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>a) The extent of occupied area and plant density (number of plants per unit area) in compensatory populations shall be equal to or greater than the affected occupied habitat.</p> <p>b) Compensatory and preserved populations shall be self-producing. Populations shall be considered self-producing when:</p> <ul style="list-style-type: none"> i) plants reestablish annually for a minimum of 5 years with no human intervention such as supplemental seeding; and ii) reestablished and preserved habitats contain an occupied area and flower density comparable to existing occupied habitat areas in similar habitat types in the project vicinity. <p>If off-site mitigation includes dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures shall be included in the project-specific mitigation plan, including information on responsible parties for long-term management, conservation easement holders, long-term management requirements, success criteria consistent with those listed above and other details, as appropriate to target the preservation of long-term viable populations.</p>				
	<p>Mitigation Measure 3.4-1d: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d)</p> <p>Cal Poly shall retain an environmental monitor to ensure compliance with the EIR mitigation measures. The monitor shall be responsible for: (1) ensuring that procedures for verifying compliance with environmental mitigations are implemented; (2) establishing lines of communication and reporting methods; (3) conducting compliance reporting; (4) conducting construction crew training regarding environmentally sensitive areas and/or special-status species; (5) maintaining authority to stop work; and (6) outlining actions to be taken in the event of noncompliance. Monitoring shall be conducted full time during the initial vegetation removal (clear/grub activities), then periodically throughout project construction, or at a frequency</p>	<p>Retain environmental monitor to ensure mitigation measure compliance.</p>	<p>CO</p>	<p>Ongoing during vegetation removal, periodically during construction</p>	<p>Cal Poly Facilities Management and Development</p>

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	and duration as directed by the affected natural resource agencies (e.g., USACE, USFWS, CDFW, and RWQCB).				
	<p>Mitigation Measure 3.4-1e: Avoid Planting Invasive Plants (Campus Master Plan EIR Mitigation Measure 3.5-3g)</p> <p>Project landscaping shall not utilize any species included on the most recent Cal-IPC Inventory.</p>	Landscape in compliance with the most recent Cal-IPC Inventory.	DE, CO	During project design/ planning, during construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-1f: Use Clean and Weed-Free Vehicles and Equipment (Campus Master Plan EIR Mitigation Measure 3.5-3h)</p> <p>a) Cal Poly shall require of its contractor(s) that all vehicles and construction equipment arrive at project areas clean and weed free when operating within 100 feet of sensitive natural communities and habitat occupied by special-status plants, to avoid inadvertent transport of invasive species. Equipment shall be inspected by the on-site inspector or environmental monitor for mud and other signs that weed seeds or propagules could be present prior to use in project areas in or within 100 feet of sensitive natural communities and habitat occupied by special-status plants. If the equipment is not clean, the environmental inspector or monitor shall deny access to the work areas until the equipment is clean.</p> <p>b) Vehicles and equipment shall be cleaned using high-pressure water or air in designated weed-cleaning stations prior to operating within 100 feet of sensitive natural communities and habitat occupied by special-status plants. Cleaning stations shall be designated by a botanist or noxious weed specialist and located away from aquatic resources, riparian areas, and other sensitive natural communities.</p>	<p>Ensure that vehicles and construction equipment are free of weeds.</p> <p>Clean vehicles and equipment before operating them within 100 feet of sensitive natural communities and habitat occupied by special-status plants.</p>	CO	Before, during, and after construction activity	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-1g: Require Use of Certified Weed-Free Construction Materials (Campus Master Plan EIR Mitigation Measure 3.5-3i)</p>	Incorporate requirement to use certified weed-free construction materials as part of construction specifications.	DE, CO	Before and during construction	Cal Poly Facilities Management and Development

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	Only certified weed-free construction materials, such as sand, gravel, straw, or fill, shall be used throughout each project site.				
	<p>Mitigation Measure 3.4-1h: Treat Invasive Plant Infestations (Campus Master Plan EIR Mitigation Measure 3.5-3j)</p> <p>Before construction activities begin within 100 feet of habitat occupied by special-status plants or sensitive natural communities as determined by the protocol-level surveys required by Mitigation Measure 3.4-1a, Cal Poly shall treat invasive plant infestations in the construction area, and within 50 feet of the construction activity area. Any new invasive plant infestations discovered during construction shall be documented, reported to Cal Poly, and treated where needed. After construction is complete, Cal Poly or its contractors shall conduct postconstruction monitoring of all construction disturbance areas within 100 feet of habitat occupied by special-status plants or sensitive natural communities for new invasive plant invasions and expansion of existing weed populations and treat invasive plant infestations where needed. Postconstruction monitoring for invasive plant infestations shall be conducted annually for 3 years.</p>	<p>Document, report, and treat invasive plant infestations.</p> <p>Monitor construction disturbance areas for new plant invasions.</p>	CO, OP	Before and during construction, monitoring for invasive plant infestations annually for 3 years following construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-1i: Implement Dust and Exhaust Emissions Reduction Measures (Campus Master Plan EIR Mitigation Measure 3.3-2)</p> <p>Implement Mitigation Measure 3.3-2, described above.</p>	See Campus Master Plan EIR Mitigation Measure 3.3-2	See Campus Master Plan EIR Mitigation Measure 3.3-2	See Campus Master Plan EIR Mitigation Measure 3.3-2	Cal Poly Facilities Management and Development
<p>Impact 3.4-2: Have a Substantial Adverse Effect on Special-Status Wildlife</p>	<p>Mitigation Measure 3.4-2a: Conduct Surveys for Areas with Significant Potential for Overwintering Monarch Butterfly Sites (Campus Master Plan EIR Mitigation Measure 3.5-2a)</p> <p>a) Cal Poly shall retain a monarch butterfly habitat specialist to conduct surveys in riparian, live oak woodland, nonnative oak woodland, and eucalyptus grove habitat within 300 feet of the project site and identify areas with significant potential for overwintering monarch butterflies. The monarch butterfly habitat specialist shall provide Cal Poly with a report summarizing the result of the surveys, including a map of areas with significant potential for overwintering monarch butterflies. Cal Poly shall use the</p>	Retain a monarch butterfly habitat specialist to conduct surveys as specified and document findings.	CO	Before construction	Cal Poly Facilities Management and Development

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	<p>report to identify overwintering sites that are within 300 feet of the project site. If no project components are within 300 feet of identified habitat, no further mitigation is required. If project components are identified within 300 feet, then the following measure shall apply.</p> <p>b) Preconstruction surveys shall be conducted for potential overwintering monarch butterfly sites within 300 feet of any proposed 2035 Master Plan project construction areas. Surveys for overwintering aggregations of monarch butterflies shall be conducted over the winter season (November 1 to first week of March) before construction activities within 300 feet of the potential butterfly overwintering zone. A minimum of two surveys shall be conducted at least one month (30 days) apart within the monarch butterfly wintering season (November 1 to first week of March). Surveys shall follow survey methods specified by the Xerces Society for Invertebrate Conservation (Xerces 2011). If no overwintering monarch butterflies are found, no further mitigation is required. If overwintering monarch butterflies are found, then Mitigation Measures 3.4-2b and 3.4-2c shall be implemented.</p>				
	<p>Mitigation Measure 3.4-2b: Implement Avoidance of Overwintering Monarch Butterfly and Protection of Active Overwintering Monarch Butterfly Sites (Campus Master Plan EIR Mitigation Measure 3.5-2b)</p> <p>Construction activities in and around butterfly overwintering sites identified pursuant to Mitigation Measure 3.4-2a shall start outside of the overwintering season (overwintering season is typically between November 1 and the first week of March), to the greatest extent feasible, to avoid potential impacts on monarch butterfly overwintering habitat. However, when it is not feasible to avoid the overwintering season and construction activities take place during this time, the following measures shall apply.</p> <p>If an active overwintering site is located, work activities shall be delayed within 300 feet of the site location until avoidance</p>	<p>Schedule construction activities outside the overwintering season.</p> <p>Implement avoidance measures in compliance with biologist recommendations.</p> <p>Avoid removal of trees used by monarch butterflies.</p> <p>Conduct routine tree trimming between April and October.</p>			<p>Cal Poly Facilities Management and Development</p>

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	<p>measures have been implemented. Appropriate avoidance measures shall include the following measures (which may be modified as a result of consultation with CDFW to provide equally effective measures):</p> <ul style="list-style-type: none"> a) If the qualified wildlife biologist determines that construction activities would not affect an active overwintering site, activities shall proceed without restriction. b) If the wildlife biologist determines there is a potential to affect an active overwintering site, a no-disturbance buffer shall be established around the overwintering site to avoid disturbance or destruction. The extent of the no-disturbance buffers shall be determined by the qualified wildlife biologist familiar with monarch butterfly and in consultation with CDFW. Buffers shall be maintained until March 7 or until the qualified biologist determines that the monarch butterflies have left the wintering site. c) Throughout the year, Cal Poly shall avoid removing or trimming trees utilized by monarch butterflies or documented as active within the last 3 years pursuant to Mitigation Measure 3.4-2a, as well as trees adjacent to the documented active winter roost areas to prevent adverse indirect changes to the humidity, wind exposure, and temperature within the immediate vicinity of the roost site, unless Cal Poly consults with a monarch butterfly habitat specialist to identify appropriate variances to this measure. Any routine tree trimming shall be done between April and October to eliminate the risk of disturbance to overwintering monarch colonies during the core overwintering/clustering period and shall be conducted following the Management Guidelines for Monarch Butterfly Overwintering Habitat (Xerces 2017) and under the supervision of the monarch habitat specialist. This mitigation measure does not apply to removal or trimming of hazard trees or branches or management of the wintering site for the benefit of monarch butterfly. 				

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	<p>Mitigation Measure 3.4-2c: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) If a no-disturbance buffer is established around an overwintering site, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>
	<p>Mitigation Measure 3.4-2d: Conduct Steelhead Impact Avoidance (Campus Master Plan EIR Mitigation Measure 3.5-2j) Where work in Stenner Creek or Brizzolara Creek, their tributaries, or their riparian areas is required, all such work shall be conducted between June 15 and October 15 or as approved by a qualified biologist in coordination as required with USACE, NMFS, and CDFW.</p>	<p>Conduct work in Stenner Creek and Brizzolara Creek, their tributaries, and their riparian areas as needed between June 15 and October 15 or as approved by a qualified biologist.</p>	<p>CO</p>	<p>During construction</p>	<p>Cal Poly Facilities Management and Development</p>
	<p>Mitigation Measure 3.4-2e: Avoid and Protect Brizzolara and Stenner Creeks (Campus Master Plan EIR Mitigation Measure 3.5-3a) For construction activities in the vicinity of Brizzolara and Stenner Creeks, a 50-foot buffer from the outer extent of the top-of-bank or outer extent of riparian vegetation, whichever is greater, shall be established unless a qualified biologist determines, based on site-specific conditions, that a larger or smaller buffer would be sufficient to avoid impacts on sensitive natural communities or riparian woodland. Development of new parking areas and buildings within this buffer shall be prohibited.</p>	<p>Establish buffer from the outer extent of the top-of-bank or outer extent of riparian vegetation. Prohibit new parking areas and buildings in this buffer.</p>	<p>DE, CO</p>	<p>Before and during construction</p>	<p>Cal Poly Facilities Management and Development</p>
	<p>Mitigation Measure 3.4-2f: Implement Low-Impact Development Principles (Campus Master Plan EIR Mitigation Measure 3.5-3b) Pursuant to 2035 Master Plan Principle OR 17, Cal Poly shall incorporate Low-Impact Development principles in the design of all projects within 100 feet of Brizzolara Creek, Stenner Creek, campus reservoirs, waterways and riparian areas unless a qualified biologist determines, based on site-specific conditions, that a larger or smaller buffer would be sufficient to avoid impacts on these resources.</p>	<p>Include requirements in construction specifications. Verify that buffers are maintained by monitoring during construction.</p>	<p>DE, CO</p>	<p>Before award of construction contract, at least weekly during construction</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>Mitigation Measure 3.4-2g: Install Exclusion Fencing (Campus Master Plan EIR Mitigation Measure 3.5-3c)</p> <p>Prior to construction within 100 feet of Brizzolara Creek, Stenner Creek, campus reservoirs, and other campus waterways, all grading plans shall clearly show the outer limits of riparian vegetation or top-of-bank features and specify the location of project delineation fencing that excludes the riparian areas from disturbance. The project delineation fencing shall remain in place and functional throughout the duration of the project, and no work activities shall occur outside the delineated work area.</p>	<p>Specify location of project delineation fencing in construction grading plans.</p> <p>Ensure project delineation fencing is maintained in place and functional during construction.</p> <p>Ensure construction activities occur within delineated work areas.</p>	DE, CO	During design phase, before and during construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-2h: Map and Protect Waterways and Riparian Areas (Campus Master Plan EIR Mitigation Measure 3.5-3d)</p> <p>Prior to construction, plans shall clearly show all staging areas, which shall be located a minimum of 100 feet outside of the Brizzolara Creek, Stenner Creek, campus reservoirs, and other campus waterways and riparian areas. The minimum buffer size may be reduced at the discretion of a qualified biologist if, based on local habitat conditions and project features, the buffer is sufficient to avoid construction-related disturbances to waterways and riparian areas.</p>	<p>Identify staging areas on project design documentation.</p>	DE, CO	During design phase, before construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-2i: Minimize Ground Disturbance in Sensitive Natural Community Areas (Campus Master Plan EIR Mitigation Measure 3.5-3e)</p> <p>Cal Poly shall require that ground disturbance, vegetation removal, and tree removal is limited to that necessary for construction in sensitive natural communities and riparian areas.</p>	<p>Minimize unnecessary ground disturbance, vegetation removal, and tree removal.</p>	CO	During construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-2j: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d)</p> <p>For work in Stenner Creek or Brizzolara Creek, their tributaries, or their riparian areas, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	See Mitigation Measure 3.4-1d.	See Mitigation Measure 3.4-1d.	See Mitigation Measure 3.4-1d.
	<p>Mitigation Measure 3.4-2k: Prepare Project-Specific California Red-Legged Frog Habitat Assessment (Campus Master Plan EIR Mitigation Measure 3.5-2c)</p>	<p>Prepare habitat assessment in accordance with the USFWS Revised Guidance on Site</p>	SS, DE	Before final design and site development	Cal Poly Facilities Management and Development

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>Cal Poly shall prepare a project-specific California red-legged frog habitat assessment. The assessment shall be prepared in coordination with, and shall be submitted for review by, USFWS. The assessment shall be prepared in accordance with the USFWS Revised Guidance on Site Assessments and Field Surveys for the California Red-Legged Frog (USFWS 2005), or the most recent applicable guidance. The assessment shall specifically evaluate reservoirs, ponds, and drainages and their upland areas that may be disturbed by the project.</p>	<p>Assessments and Field Surveys for the California Red-Legged Frog.</p>			
	<p>Mitigation Measure 3.4-2l: Conduct California Red-Legged Frog Consultation (Campus Master Plan EIR Mitigation Measure 3.5-2d)</p> <p>For project activities that would affect jurisdictional water features and California red-legged frog and/or California red-legged frog critical habitat as determined by implementing Mitigation Measure 3.4-2k, Cal Poly shall coordinate with USACE during the CWA Section 404 permitting process regarding consultation with USFWS about the potential for these activities to result in take of California red-legged frog and/or California red-legged frog critical habitat. If USACE, in consultation with USFWS, determines that the proposed project may affect or result in take of California red-legged frog, USFWS may issue a Biological Opinion with an incidental take statement for the project. Cal Poly shall comply with all measures included in the Biological Opinion, which may include compensatory mitigation for permanent and/or temporary loss of habitat, construction monitoring, salvaging of California red-legged frog, and installation of exclusion fencing between the project site and adjacent habitats.</p> <p>When working in California red-legged frog habitat where there is no federal nexus for federal interagency consultation under Section 7 of the Endangered Species Act (e.g., upland habitat areas), Cal Poly shall conduct preconstruction surveys as described under Mitigation Measure 3.4-2k.</p>	<p>Coordinate and consult with USACE and USFWS on California red-legged frog.</p> <p>Comply with measures outlined in the Biological Opinion or ITP.</p>	<p>SS, DE</p>	<p>Before final design and site development</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>Mitigation Measure 3.4-2m: Avoid California Red-Legged Frog during the Wet Season (Campus Master Plan EIR Mitigation Measure 3.5-2e)</p> <p>To avoid the potential for take of California red-legged frogs, the initial ground-disturbing activities associated with the project that would occur in California red-legged frog habitat, as determined from Mitigation Measure 3.4-2k shall be completed in the dry season (between April 15 and the first rain following October 15) and when habitat is dry. Regardless of the seasonal rain patterns, no ground-disturbing activities may occur on these sites between first fall rains and May 31 of any year without prior authorization or concurrence from USFWS and CDFW.</p>	<p>Schedule construction activities during the dry season (between April 15 and the first rain following October 15).</p>	CO	Before construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-2n: Conduct Preconstruction Surveys for California Red-Legged Frog (Campus Master Plan EIR Mitigation Measure 3.5-2f)</p> <p>Prior to construction of project components that would occur in California red-legged frog habitat as determined from Mitigation Measure 3.4-2k, Cal Poly shall retain a qualified biologist with demonstrated experience surveying for California red-legged frog. The biologist shall conduct preconstruction surveys for California red-legged frog. The survey(s) must be conducted within 48 hours before the site disturbance and encompass the entire project disturbance area and a 100-foot buffer of the disturbance area(s).</p> <p>If California red-legged frog(s) are observed during the survey, the biologist shall immediately contact Cal Poly and inform them of the survey findings. Cal Poly shall delay the project activities that were planned to occur in the area until Cal Poly consults with USFWS and secures any necessary approvals, including a Biological Opinion or an ITP as may be applicable, to move forward with the project. In the absence of USFWS approval, the surveying biologist shall not capture, handle, or otherwise harass California red-legged frog. Cal Poly and its contractors shall comply with all measures within any Biological Opinion or ITP that is required for the project.</p>	<p>Conduct preconstruction surveys for California red-legged frog.</p> <p>If necessary, delay project activities until consultation occurs and approvals have been secured from USFWS.</p>	DE, CO	Before construction (48 hours before ground disturbance); ongoing, during construction	Cal Poly Facilities Management and Development

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	<p>Mitigation Measure 3.4-2o: Avoid and Protect Brizzolara and Stenner Creeks (Campus Master Plan EIR Mitigation Measure 3.5-3a) Implement Mitigation Measure 3.4-2e.</p>	See Mitigation Measure 3.4-2e.	See Mitigation Measure 3.4-2e.	See Mitigation Measure 3.4-2e.	See Mitigation Measure 3.4-2e.
	<p>Mitigation Measure 3.4-2p: Install Exclusion Fencing (Campus Master Plan EIR Mitigation Measure 3.5-3c) Implement Mitigation Measure 3.4-2g.</p>	See Mitigation Measure 3.4-2g.	See Mitigation Measure 3.4-2g.	See Mitigation Measure 3.4-2g.	See Mitigation Measure 3.4-2g.
	<p>Mitigation Measure 3.4-2q: Map and Protect Waterways and Riparian Areas (Campus Master Plan EIR Mitigation Measure 3.5-3d) Implement Mitigation Measure 3.4-2h.</p>	See Mitigation Measure 3.4-2h.	See Mitigation Measure 3.4-2h.	See Mitigation Measure 3.4-2h.	See Mitigation Measure 3.4-2h.
	<p>Mitigation Measure 3.4-2r: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) For work that would occur in California red-legged frog habitat, implement Mitigation Measure 3.4-1d.</p>	See Mitigation Measure 3.4-1d.	See Mitigation Measure 3.4-1d.	See Mitigation Measure 3.4-1d.	See Mitigation Measure 3.4-1d.
	<p>Mitigation Measure 3.4-2s: Conduct Western Pond Turtle, Coast Range Newt, and Coast Horned Lizard Surveys and Relocation (Campus Master Plan EIR Mitigation Measure 3.5-2t) To minimize adverse effects on special-status reptiles and amphibians, other than California red-legged frog, Cal Poly shall implement the following measures:</p> <ul style="list-style-type: none"> a) Prior to the construction of project components within pastures, nonnative annual grasslands, or riparian corridors, Cal Poly shall retain a qualified biologist to survey for coast horned lizard within 2 weeks of project activities. If no coast horned lizards, or their eggs or nests are observed, no further mitigation is required. b) Prior to the construction of project components that requires dewatering, dredging, or fill of an aquatic site (e.g., Swine Unit ponds), or ground-disturbing activities within inactive pasturelands or nonnative grassland with a southern sun exposure within 1,500 feet of any aquatic habitat, Cal Poly shall retain a qualified biologist to survey for western pond turtle and coast range newt within 2 	<p>Retain biologist to survey for and relocate western pond turtles, coast range newts, and coast horned lizard (if necessary). Include specified avoidance and control measures in construction specifications.</p>	DE, CO	Before and during construction	Cal Poly Facilities Management and Development

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	<p>weeks of project activities. If no western pond turtle, coast range newt, or their eggs or nests are observed, no further mitigation is required. If coast horned lizard, western pond turtle, coast range newt, their eggs or nests are found then the following shall be conducted:</p> <p>c) Cal Poly shall retain a qualified biologist to capture and relocate coast horned lizard, western pond turtle, and coast range newt adults and juveniles. Capture and relocation efforts must be conducted using visual survey and hand capture techniques. Any captured coast horned lizard, western pond turtles, and coast range newts must be relocated to nearby suitable habitat that shall not be affected by project activities.</p> <p>d) If coast horned lizard nests, newt egg masses and/or larvae, or western pond turtle nests are identified, construction shall be delayed until the eggs have hatched and individuals are capable of vacating the site or being relocated. Because of the delicate nature of newt egg masses/larvae and habitat requirements of western pond turtle and coast horned lizard nests, delaying construction is the only viable method to protect the resource.</p>				
	<p>Mitigation Measure 3.4-2t: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d)</p> <p>Where construction of project components would occur within pastures, nonnative annual grasslands, or riparian corridors, including dewatering, dredging, or fill of an aquatic site (e.g., Swine Unit ponds), or ground-disturbing activities within inactive pasturelands or nonnative grassland with a southern sun exposure within 1,500 feet of any aquatic habitat, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>

Project stage at which implementation of the measure is required - SS=site selection; DE=detailed project planning or project design prior to project approval; CO=prior to or during construction; OC=prior to occupancy; OP=prior to or during operation

Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>Mitigation Measure 3.4-2u: Conduct Special-Status Bird and Other Bird Nest Avoidance (Campus Master Plan EIR Mitigation Measure 3.5-2u)</p> <p>The following measures shall be implemented to avoid or minimize loss of active special-status bird nests including tricolored blackbird, grasshopper sparrow, burrowing owl, white-tailed kite, least Bell’s vireo, loggerhead shrike, and purple martin:</p> <p>a) To minimize the potential for loss of special-status or other bird nests, vegetation removal activities within potentially suitable nesting habitat shall commence during the nonbreeding season (September 16–January 31), where feasible.</p> <p>b) If project construction activities, including ground-disturbing activities, vegetation trimming, or tree removal are scheduled to occur between February 1 and September 15, the following measures shall be implemented:</p> <p>i. For construction activities on or within 500 feet of agricultural land, pasture, nonnative annual grassland, eucalyptus grove, or riparian habitat as shown in Figure 3.5-1, “Land Cover,” of the Campus Master Plan EIR (Cal Poly 2020) and ornamental/landscaping trees in developed habitat, Cal Poly shall retain a qualified biologist to conduct habitat assessment surveys for common nesting birds and raptors, tricolored blackbird, grasshopper sparrow, burrowing owl, white-tailed kite, least Bell’s vireo, loggerhead shrike, and purple martin. If no suitable habitat is present within 500 feet of construction activities, no further action is required.</p> <p>ii. Where suitable habitat is present, surveys shall be conducted by biologists adhering to guidance offered in Least Bell’s Vireo Survey Guidelines (USFWS 2001); CDFW Staff Report on Burrowing Owl Mitigation (CDFW 2012) and/or current industry standards. Cal Poly shall initiate consultation with USFWS and/or</p>	<p>Conduct vegetation removal during nonbreeding season where feasible.</p> <p>Outside the nonbreeding season, retain a qualified biologist to conduct surveys. If required, consult with USFWS and CDFW.</p> <p>Conduct preconstruction nesting bird surveys, comply with biologist recommendations, and establish buffers if necessary.</p> <p>Include mitigation specifications in construction specifications as necessary.</p>	DE, CO	Before, during and after construction	Cal Poly Facilities Management and Development

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>CDFW as required and shall mitigate for the loss of breeding and foraging habitat as determined by consultation.</p> <p>iii. Two weeks prior to construction, a preconstruction nesting bird survey shall be conducted within suitable habitat identified in Mitigation Measure 3.4-2u(b)(i). If nests are detected, a qualified biologist shall establish no-disturbance buffers around nests. Buffers shall be of sufficient width that breeding is not likely to be disrupted or adversely affected by construction. No-disturbance buffers around active nests shall be a minimum of 0.25 mile wide for white-tailed kite, 500 feet wide for other raptors, and 250 feet wide for other special-status birds, unless a qualified biologist determines based on site-specific conditions that a larger or smaller buffer would be sufficient to avoid impacts on nesting birds. Factors to be considered in determining buffer size shall include the presence of existing buffers provided by vegetation, topography, or existing buildings/structures; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers shall be maintained until a qualified biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival. Monitoring of the nest by a qualified biologist during and after construction activities shall be required if the activity has potential to adversely affect the nest.</p> <p>iv. For tricolored blackbird, the qualified biologist shall conduct preconstruction surveys within tules, cattails, Himalayan blackberry, and riparian scrub habitat areas. The surveys shall be conducted no more than 14 days before construction commences. If no active nests or tricolored blackbird colonies are found during focused surveys, no further action under this measure shall be required. If active nests are located during the preconstruction surveys, the biologist shall notify CDFW. If necessary, modifications to the project</p>				

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>design to avoid removal of occupied habitat while still achieving project objectives shall be evaluated and implemented to the extent feasible. If avoidance is not feasible or conflicts with project objectives, construction shall be prohibited within a minimum of 100 feet of the outer edge of the nesting colony, unless a qualified biologist determines based on site-specific conditions that a larger or smaller buffer would be sufficient, to avoid disturbance until the nest colony is no longer active.</p>				
	<p>Mitigation Measure 3.4-2v: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) If no-disturbance buffers to avoid impacts to any nesting birds are established or tricolored blackbird colonies are located during focused surveys, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>
	<p>Mitigation Measure 3.4-2w: Implement Bat Preconstruction Surveys and Exclusion (Campus Master Plan EIR Mitigation Measure 3.5-2w) Before commencing construction activities with the potential to affect bats, including land surveying with a GPS Total Station and removal of farm structures and trees with hollows or exfoliating bark suitable for bats, a qualified biologist shall conduct surveys for roosting bats 2 weeks prior to start of construction activities. GPS Total Stations used for land surveying emit high frequency noise outside of the human hearing frequency but within the hearing range of bats, which has resulted in colony abandonment. If evidence of bat use is observed, the species and number of bats using the roost shall be determined. Bat detectors may be used to supplement survey efforts. If no evidence of bat roosts is found, then no further study and no additional measures are required. If the roost site can be avoided, a 250-foot-wide no-disturbance buffer shall be implemented unless a qualified biologist determines, based on bat species and site-specific conditions, that a larger or smaller buffer would be adequate to avoid impacts on bat roosts.</p>	<p>Retain a qualified biologist to conduct preconstruction surveys. Document findings as specified, and consult with CDFW regarding development of a detailed program to identify exclusion methods and roost removal procedures.</p>	<p>CO</p>	<p>Before construction</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>If roosts of pallid bat, Townsend's big-eared bat, western mastiff bat, big free-tailed bat, or other bat species are found, and the roost cannot be avoided, bats shall be excluded from the roosting site before the tree or structure is removed. Exclusion efforts shall be restricted during periods of sensitive activity (e.g., during hibernation or while females in maternity colonies are nursing young). Once it is confirmed that bats are not present in the original roost site, the tree or structure may be removed. A detailed program to identify exclusion methods and roost removal procedures shall be developed by a qualified biologist in consultation with CDFW before implementation.</p>				
	<p>Mitigation Measure 3.4-2x: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) If construction activities would occur where an active bat roost or maternity colony is found and a no-disturbance buffer has been established, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>
	<p>Mitigation Measure 3.4-2y: Conduct American Badger Surveys and Avoidance (Campus Master Plan EIR Mitigation Measure 3.5-2s) For project activities within undeveloped grassland habitat and before ground-disturbing activities, a qualified biologist shall conduct a preconstruction survey for American badger dens. The American badger survey shall be conducted no more than 2 weeks prior to construction. If the survey results are negative (i.e., no active badger dens observed), no additional mitigation is required. If the results are positive (American badger dens are observed), the biologist shall contact Cal Poly within 24 hours and work in the area shall be delayed until Cal Poly's biologist has made one of the following determinations: a) If the biologist determines that dens may be active, the biologist shall install a game camera for 3 days and 3 nights to determine if the den is in use. If the biologist determines that the den is a maternity den, construction activities shall be delayed during the maternity season (February to August), or until the badgers leave the den on their own accord or the biologist determines that the den is no</p>	<p>Conduct surveys, and comply with biologist determinations. Include specified avoidance and control measures in construction specifications.</p>	<p>DE, CO</p>	<p>Before construction</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>longer in use. If the game camera does not capture an individual entering/exiting the den, the den can be excavated as described below. If the camera captures badger use of the den outside the maternity season, the biologist shall install a one-way door in the den opening and continue use of the game camera. Once the camera captures the individual exiting the one-way door, the den can be excavated as described below.</p> <p>b) If the biologist determines that potential dens are inactive, the biologist shall excavate the dens with hand tools to prevent badgers from reusing them.</p>				
	<p>Mitigation Measure 3.4-2z: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) If active American badger dens are identified during preconstruction surveys, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>
	<p>Mitigation Measure 3.4-2aa: Conduct Monterey Dusky-Footed Woodrat Midden Surveys, Avoidance, or Relocation (Campus Master Plan EIR Mitigation Measure 3.5-2q) Prior to project work in riparian corridors, California sagebrush scrub, coast live oak woodland, and nonnative woodland habitat, Cal Poly shall retain a qualified biologist to survey for Monterey dusky-footed woodrat middens and assist in the removal/relocation of woodrat middens no more than 2 weeks prior to start of ground disturbance activities. The biologist shall document the results of the survey(s) in a letter report to Cal Poly and CDFW that includes a map of observed middens. If dusky-footed woodrat middens are found on a particular project site and are located outside of the permanent footprint of any proposed structure/site features and can be avoided, Cal Poly shall establish and maintain a 40-foot protective buffer, unless a reduced buffer is warranted as determined by a qualified biologist in consultation with CDFW, ensuring that the buffer does not isolate the midden from available habitat. If middens can be avoided no further mitigation is required. If middens cannot be avoided, relocation shall be conducted in consultation with CDFW. Relocation of the middens shall occur</p>	<p>Retain biologist; conduct surveys; document results; and remove, relocate, or avoid middens. Consult with CDFW as needed. Include specified avoidance and control measures in construction specifications.</p>	<p>DE, CO</p>	<p>Before construction</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>after July 1 and before December 1 to avoid the maternity season. During implementation of site clearing activities and under supervision of the biologist, the equipment operators shall remove all vegetation and other potential woodrat shelter within the disturbance areas that surround the woodrat midden(s) to be removed. Upon completion of clearing the adjacent woodrat shelter, the operator shall gently nudge the intact woodrat midden with equipment or long handled tools. Due to the potential health hazards associated with removing woodrat middens, hand removal is not recommended. The operators shall place their equipment within the previously cleared area and not within the undisturbed woodrat shelter area. The objective is to alarm the woodrats so that they evacuate the midden and scatter away from the equipment and into the undisturbed vegetation. Once the woodrats have evacuated the midden(s), the operator shall gently pick up the midden structure and move it to the undisturbed adjacent vegetation. The objective of moving the structure is to provide the displaced woodrats with a stockpile of material to scavenge while they build a new midden; jeopardizing the integrity of the midden structure is not an adverse impact.</p>				
	<p>Mitigation Measure 3.4-2bb: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) During construction in or around active Monterey dusky-footed woodrat middens, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>
	<p>Mitigation Measure 3.4-2cc: Conduct Ringtail Den(s) Surveys, and Avoidance (Campus Master Plan EIR Mitigation Measure 3.5-2o) If vegetation removal or construction activities within riparian habitat occur outside of the breeding and pupping season for ringtail (February 1 through June 15), no mitigation is necessary. If the ringtail breeding season cannot be avoided, Cal Poly shall retain a qualified biologist to conduct preconstruction surveys within 3 weeks prior to commencement of construction for potential natal or maternity den trees/rock crevices. If an active</p>	<p>Conduct preconstruction surveys, consult with CDFW as needed, and comply with biologist recommendations. Include specified avoidance and control measures in construction specifications.</p>	<p>DE, CO</p>	<p>Before construction</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>den is found, the qualified biologist, in consultation with CDFW, shall determine a construction-free buffer zone to be established around the den until the young have left the den. At a minimum, the buffer shall be 500 feet unless a reduced buffer is warranted as determined by a qualified biologist in consultation with CDFW. Because ringtails are known to move their offspring between dens, the biologist may maintain the den under surveillance with a trail camera in a way that does not affect the use of the den. If the biologist determines that ringtails have vacated the den during the surveillance period, then construction may begin within 7 days following this observation, but the den must remain under surveillance in the event that the mother has moved the litter back to the den. If the den is within a tree hollow, and the tree needs to be removed, the hollow section of the tree must be salvaged and secured to a nearby unaffected tree in order to maintain the number of dens in the area.</p>				
	<p>Mitigation Measure 3.4-2dd: Conduct Environmental Monitoring (Campus Master Plan EIR Mitigation Measure 3.5-1d) During implementation of work in riparian corridors where ringtail occupied habitat has been identified, implement Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>	<p>See Mitigation Measure 3.4-1d.</p>
<p>Impact 3.4-3: Have a Substantial Adverse Effect on Sensitive Natural Communities and Riparian Habitat</p>	<p>Mitigation Measure 3.4-3a: Avoid and Protect Brizzolara and Stenner Creeks (Campus Master Plan EIR Mitigation Measure 3.5-3a) Implement Mitigation Measure 3.4-2e.</p>	<p>See Mitigation Measure 3.4-2e.</p>	<p>See Mitigation Measure 3.4-2e.</p>	<p>See Mitigation Measure 3.4-2e.</p>	<p>See Mitigation Measure 3.4-2e.</p>
	<p>Mitigation Measure 3.4-3b: Implement Low-Impact Development Principles (Campus Master Plan EIR Mitigation Measure 3.5-3b) Implement Mitigation Measure 3.4-2f.</p>	<p>See Mitigation Measure 3.4-2f.</p>	<p>See Mitigation Measure 3.4-2f.</p>	<p>See Mitigation Measure 3.4-2f.</p>	<p>See Mitigation Measure 3.4-2f.</p>
	<p>Mitigation Measure 3.4-3c: Install Exclusion Fencing (Campus Master Plan EIR Mitigation Measure 3.5-3c) Implement Mitigation Measure 3.4-2g.</p>	<p>See Mitigation Measure 3.4-2g.</p>	<p>See Mitigation Measure 3.4-2g.</p>	<p>See Mitigation Measure 3.4-2g.</p>	<p>See Mitigation Measure 3.4-2g.</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>Mitigation Measure 3.4-3d: Map and Protect Waterways and Riparian Areas (Campus Master Plan EIR Mitigation Measure 3.5-3d) Implement Mitigation Measure 3.4-2h.</p>	See Mitigation Measure 3.4-2h.	See Mitigation Measure 3.4-2h.	See Mitigation Measure 3.4-2h.	See Mitigation Measure 3.4-2h.
	<p>Mitigation Measure 3.4-3e: Minimize Ground Disturbance and Limit Spray Irrigation in Sensitive Natural Communities For projects that require the demolition of existing structures and vegetation removal within sensitive natural communities, Cal Poly shall require that ground disturbance, vegetation removal, and tree removal are limited to that necessary for construction, especially in sensitive natural communities and riparian areas. Additionally, for the WRF project, new or altered spray irrigation in sensitive natural communities (e.g., needle grass – melic grass grassland) shall be avoided to the extent possible. If spray irrigation cannot be avoided in areas containing sensitive natural communities, then Cal Poly shall develop and implement a monitoring plan to determine if the irrigation practices are adversely affecting the sensitive natural community. If monitoring indicates that spray irrigation is adversely affecting a sensitive natural community (e.g., plants that characterize the sensitive natural community are dying or species composition is changing), then irrigation practices shall be adapted to remediate the adverse effects and monitoring shall continue until the adverse effects are no longer observed and ecological function is restored in the sensitive natural community. Remedial actions may include changes to the timing, frequency, or amount of irrigation applied to the areas containing sensitive natural communities. If irrigation practices cannot be modified or continued monitoring indicates the adapted irrigation practices are not correcting the adverse effect and restoring ecological function in the sensitive natural community then Mitigation Measure 3.5-3f shall be implemented.</p>	Minimize unnecessary ground disturbance and limit spray irrigation in sensitive natural communities.	CO	During construction	Cal Poly Facilities Management and Development
	<p>Mitigation Measure 3.4-3f: Mitigate for the Loss of Sensitive Natural Communities (Campus Master Plan EIR Mitigation Measure 3.5-3f)</p>	Ensure that additional mitigation is implemented, as needed and as specified, to ensure no net loss	DE, CO, OP	During project planning, before	Cal Poly Facilities Management and Development

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>If loss of sensitive natural communities would result from ground disturbance activities or spray irrigation practices, and this loss would not be otherwise mitigated by the proposed project (i.e., the sensitive natural community is recognized as sensitive, but not protected pursuant to other regulations or policies), then additional actions shall be implemented based on site- and project-specific impacts in order to ensure no net loss of habitat function or acreage. Such actions may include creating, restoring, and/or preserving in perpetuity in-kind communities at a sufficient ratio to achieve no net loss of habitat function or acreage. If habitat enhancement or creation takes place, Cal Poly shall develop and implement a monitoring and management plan to assess the effectiveness of the mitigation. If monitoring indicates that the actions have not adequately mitigated for the project's impacts, Cal Poly shall implement further remedial actions, restoration, and other activities to reach a no net loss of habitat function or acreage.</p>	<p>of habitat function or acreage in sensitive natural communities. Develop and implement a monitoring and management plan, and, if necessary, implement further remedial actions, restoration, and other activities to achieve no net loss of habitat function or acreage.</p>		<p>construction, during operations</p>	
	<p>Mitigation Measure 3.4-3g: Use Clean and Weed-Free Vehicles and Equipment (Campus Master Plan EIR Mitigation Measure 3.5-3h) Implement Mitigation Measure 3.4-1f.</p>	<p>See Mitigation Measure 3.4-1f.</p>	<p>See Mitigation Measure 3.4-1f.</p>	<p>See Mitigation Measure 3.4-1f.</p>	<p>See Mitigation Measure 3.4-1f.</p>
	<p>Mitigation Measure 3.4-3h: Require Use of Certified Weed-Free Construction Materials (Campus Master Plan EIR Mitigation Measure 3.5-3i) Implement Mitigation Measure 3.4-1g.</p>	<p>See Mitigation Measure 3.4-1g.</p>	<p>See Mitigation Measure 3.4-1g.</p>	<p>See Mitigation Measure 3.4-1g.</p>	<p>See Mitigation Measure 3.4-1g.</p>
	<p>Mitigation Measure 3.4-3i: Treat Invasive Plant Infestations (Campus Master Plan EIR Mitigation Measure 3.5-3j) Implement Mitigation Measure 3.4-1h.</p>	<p>See Mitigation Measure 3.4-1h.</p>	<p>See Mitigation Measure 3.4-1h.</p>	<p>See Mitigation Measure 3.4-1h.</p>	<p>See Mitigation Measure 3.4-1h.</p>
<p>Impact 3.4-4: Have a Substantial Adverse Effect State or Federally Protected Wetlands or Other Waters</p>	<p>Mitigation Measure 3.4-4: Design Projects to Avoid and Minimize Disturbances to Jurisdictional Waters; Conduct Delineation of Jurisdictional Waters and Obtain Authorization for Fill and Required Permits; and Compensate for Unavoidable Degradation or Loss of Jurisdictional Waters (Campus Master Plan EIR Mitigation Measure 3.5-4)</p>	<p>Design new projects to avoid jurisdictional waters, and prepare Jurisdictional Waters Delineation if necessary.</p>	<p>SS, DE, CO, OP</p>	<p>During design of new facilities, during operations</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>Cal Poly shall avoid, minimize, and compensate for potential degradation or loss of waters of the United States and waters of the state by implementing the following measure.</p> <p>Cal Poly shall design new facilities and improvements to existing facilities to avoid impacts on potential jurisdictional waters where feasible. If avoidance of these features is not feasible, or the jurisdictional status of any waterways that may be encroached upon is unknown, Cal Poly shall prepare a project-specific Jurisdictional Waters Delineation that identifies the project boundaries in relation to the jurisdictional boundaries of the site. For any unavoidable fill or alteration of a jurisdictional feature, Cal Poly shall coordinate with USACE to obtain a CWA Section 404 permit, CDFW to obtain a Streambed Alteration Agreement, and RWQCB to obtain a CWA Section 401 Certification. Cal Poly shall comply with all special conditions of the necessary permits.</p> <p>To support the permit applications, Cal Poly shall prepare a Habitat Mitigation and Monitoring Plan (HMMP) for inclusion in the permit applications. The HMMP shall propose a 2:1 replacement ratio for permanent impacts on jurisdictional areas and a 1:1 ratio for temporary impacts on the jurisdictional areas or higher mitigation ratios if required by the permitting agencies. Unless otherwise directed by the permitting agencies, Cal Poly shall incorporate on-site, in-kind, permittee-responsible compensatory mitigation to ensure that the drainages' functions and values are retained or improved as part of the project. The HMMP shall identify the location(s) where the proposed compensatory mitigation shall be implemented and the type (e.g., creation, restoration, enhancement, preservation) of mitigation that shall be implemented. At a minimum, the HMMP shall include a 5-year maintenance and monitoring program that facilitates the successful completion of the mitigation efforts.</p>	<p>Coordinate with USACE, CDFW, and RWQCB and comply with conditions of necessary permits.</p> <p>Prepare a Habitat Mitigation and Monitoring Plan for inclusion in the permit applications.</p>			

Geology and Soils

<p>Campus Master Plan EIR Impact 3.7-3: Directly or Indirectly</p>	<p>Campus Master Plan EIR Mitigation Measure 3.7-3: Perform Site-Specific Geotechnical Investigations</p>	<p>Prepare site-specific geotechnical investigations and comply with recommendations.</p>	<p>DE</p>	<p>During project design and</p>	<p>Cal Poly Facilities Management and Development</p>
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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
<p>Cause Potential Substantial Adverse Effects, including the Risk of Loss, Injury, or Death Involving Landslides</p>	<p>For any areas within the campus where development is proposed in an area designated as having a high potential for landslide hazards, substantial erosion potential, or located on a geologic unit that is unstable or within an area known to have expansive soils, a site-specific geotechnical investigation shall be performed. Based on the findings of the geotechnical investigation for each future development or redevelopment project under the 2035 Master Plan, any appropriate stabilization and site design recommendations, or low impact development features determined necessary to support proposed development shall be incorporated in the project design and implemented as part of project construction. Examples of stabilization and erosion control recommendations may include, but are not limited to:</p> <ul style="list-style-type: none"> ▶ installation of earthen buttress(es); ▶ excavation of landslide mass/material; ▶ slope stabilization through excavation into benches and/or keyways and other methods; ▶ deep soil mixing; ▶ installation of retaining walls; ▶ use of tie-back anchors, micropiles, or shear pins; or ▶ a combination of any of these methods. <p>Before final plan approval, Cal Poly shall incorporate into the project design and implement all recommendations identified in the site-specific geotechnical investigation, including all recommendations included in the final geotechnical report prepared for the project. All recommendations shall be shown on final plans and/or included as project specifications.</p>	<p>Incorporate and implement project-specific recommendations into project design.</p> <p>Identify recommendations in final plans or project specifications.</p>	<p>prior to project approval</p>		
<p>Campus Master Plan EIR Impact 3.7-5: Be Located on a Geologic Unit That Is Unstable, or That Would Become Unstable as a Result of the Project, and</p>	<p>Campus Master Plan EIR Mitigation Measure 3.7-5: Perform Site-Specific Geotechnical Investigations</p> <p>Implement Mitigation Measure 3.7-3, described above.</p>	<p>See Campus Master Plan EIR Mitigation Measure 3.7-3</p>	<p>See Campus Master Plan EIR Mitigation Measure 3.7-3</p>	<p>See Campus Master Plan EIR Mitigation Measure 3.7-3</p>	<p>Cal Poly Facilities Management and Development</p>

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
Potentially Result in On- or Off-Site Landslide, Lateral Spreading, Subsidence, Liquefaction, or Collapse					
Campus Master Plan EIR Impact 3.7-6: Be Located on Expansive Soil, Creating Substantial Direct or Indirect Risks to Property	<p>Campus Master Plan EIR Mitigation Measure 3.7-6: Perform Site-Specific Geotechnical Investigations</p> <p>Implement Mitigation Measure 3.7-3, described above.</p>	See Campus Master Plan EIR Mitigation Measure 3.7-3	See Campus Master Plan EIR Mitigation Measure 3.7-3	See Campus Master Plan EIR Mitigation Measure 3.7-3	Cal Poly Facilities Management and Development
Campus Master Plan EIR Impact 3.7-7: Directly or Indirectly Destroy a Unique Paleontological Resource or Site or Unique Geological Feature	<p>Campus Master Plan EIR Mitigation Measure 3.7-7: Treatment of Paleontological Resources</p> <p>If any paleontological resources are encountered during ground-disturbing activities, the construction contractor shall ensure that activities in the immediate area of the find are halted and Cal Poly informed. Cal Poly shall retain a qualified paleontologist to evaluate the discovery and recommend appropriate treatment options pursuant to guidelines developed by the Society of Vertebrate Paleontology, including development and implementation of a paleontological resource impact mitigation program for treatment of the resource, if applicable.</p>	<p>Halt construction activities if paleontological resources are encountered.</p> <p>Retain a qualified paleontologist, if necessary, to evaluate and document findings as well as provide recommendations.</p> <p>If applicable, develop a paleontological resource impact mitigation program.</p>	CO	During construction	Cal Poly Facilities Management and Development
Greenhouse Gas Emissions					
Campus Master Plan EIR Impact 3.8-1: Generate GHG Emissions That May Have a Significant Impact on the Environment	<p>Campus Master Plan EIR Mitigation Measure 3.8-2: Purchase GHG Offsets</p> <p>Annual [Campus Master Plan] project-generated GHG emissions would exceed the established threshold by 6,376 MTCO₂e/year after incorporation of Mitigation Measure 3.8-1. Additional GHG emissions reductions could be achieved from the development of a local (i.e., campus) offset program or direct investments in</p>	Purchase GHG offsets before occupation of the WRF.	DE, CO	During before initiating project operations	Cal Poly Facilities Management and Development

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Impact	Mitigation Measure	Monitoring and Reporting Procedure	Timing		Verification
	<p>existing local programs such as financing installation of regional electric vehicle–charging stations or investing in local urban forests.</p> <p>Where development or investments in local programs are not feasible or available, Cal Poly may choose to mitigate additional GHG emissions through the purchase of carbon credits available through any one of the following verifiable entities/registries: CARB, Climate Action Reserve, California Air Pollution Control Officers Association, the APCD, or any other equivalent or verifiable registry. Such offsets, either established by Cal Poly or purchased, will meet the requirements of CEQA Guidelines Section 15126.4(C)(3), and meet the following criteria:</p> <ul style="list-style-type: none"> ▶ Real—They represent reductions actually achieved (not based on maximum permit levels). ▶ Additional/surplus—They are not already planned or required by regulation or policy (i.e., not double counted). ▶ Quantifiable—They are readily accounted for through process information and other reliable data. ▶ Enforceable—They are acquired through legally binding commitments/agreements. ▶ Validated—They are verified through the accurate means by a reliable third party. ▶ Permanent—They will remain as GHG reductions in perpetuity. <p>Carbon offset credits must be purchased prior to occupancy of individual structures developed under the Master Plan up to 159,400 MTCO_{2e} of credits (i.e., 25 years multiplied by 6,376 MTCO_{2e}) for the entire campus. The amount to be purchased for each development under the Master Plan can either be calculated based on the percentage share of the development as it relates to overall development under the Master Plan or based on updated modeling at the time the development is considered for approval. The price per MT of CO_{2e} varies depending on the availability of credits on the market, the number of credits purchased at one time, and the type and location of carbon offset being purchased. Current pricing estimates range from \$0.85 to \$8.5 per MTCO_{2e}.</p>				

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Hydrology and Water Quality					
<p>Impact 3.5-2: Substantially Alter the Existing Drainage Pattern of the Site or Area Such That Substantial Erosion, Siltation, Flooding, Polluted Runoff, or an Exceedance of the Capacity of Storm Drainage Systems Would Occur</p>	<p>Mitigation Measure 3.5-2a: Prepare a Drainage Plan and Supportive Hydrologic Analysis (Campus Master Plan EIR Mitigation Measure 3.9-3)</p> <p>Before the commencement of construction activities that will modify existing drainage and/or require the construction of new drainage infrastructure to collect and control storm water runoff, Cal Poly shall prepare a drainage plan and supportive hydrologic analysis demonstrating compliance with the following, or equally effective similar measures, to maximize groundwater recharge and maintain similar drainage patterns and flow rates:</p> <ul style="list-style-type: none"> a) Off-site runoff shall not exceed existing flow rates during storm events. b) If required to maintain the current flow rate, appropriate methods/design features (e.g., detention/retention basins, infiltration systems, or bioswales) shall be installed to reduce local increases in runoff, particularly on frequent runoff events (up to 10-year frequency) and to maximize groundwater recharge. c) If proposed, drainage discharge points shall include erosion protection and be designed such that flow hydraulics exiting the site mimics the natural condition as much as possible. d) Drainage from impervious surfaces (e.g., roads, driveways, buildings) shall be directed to a common drainage basin. e) Where feasible, grading and earth contouring shall be done in a way to direct surface runoff towards the above-referenced drainage improvements (and/or closed depressions). 	<p>Prepare a drainage plan and supportive hydrologic analysis demonstrating compliance with specified measures.</p>	<p>DE</p>	<p>During project planning/design phase</p>	<p>Cal Poly Facilities Management and Development</p>
	<p>Mitigation Measure 3.5-2b: Implement Post-Development Storm Water Best Management Practices and Low-Impact Development (Campus Master Plan EIR Mitigation Measure 3.9-4b)</p>	<p>Verify that storm water BMPs and LID technologies were evaluated and that all appropriate BMPs are incorporated into the project.</p>	<p>DE</p>	<p>During project design phase</p>	<p>Cal Poly Facilities Management and Development</p>

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	<p>During the design review phase, Facilities Management and Development will verify that the storm water BMPs and LID technologies were evaluated and all appropriate BMPs are incorporated into the project. Additionally, consistent with MS4 requirements, Facilities Management and Development will also verify that post-development runoff from the project site will approximate pre-development runoff volumes. If post-development runoff does not approximate pre-development runoff, additional BMPs shall be required in order to ensure that storm drain system capacity is not exceeded and that the drainage pattern of the project site is not significantly altered in such a way that it would result in erosion, siltation, or flooding.</p>	<p>If necessary, require additional BMPs to ensure that the drainage pattern of the project site would not be altered in such a way that it would result in erosion, siltation, or flooding.</p>			
<p>Impact 3.5-3: Be Located within Flood Hazard, Tsunami, or Seiche Zones, and Risk Release of Pollutants Due to Project Inundation</p>	<p>Mitigation Measure 3.5-3: Design and Construct Earthen Berms to Minimize Risk of Failure</p> <p>To minimize the risk of berm failure and flooding, the earthen berms of the proposed recycled water reservoir and modified dairy ponds shall be designed and constructed by qualified professional engineers consistent with best professional standards and in cooperation with Cal Poly and SWRCB, taking into consideration applicable Waste Discharge Requirements and consistent with the results of a geotechnical investigation. As determined necessary by SWRCB, Cal Poly shall retain a qualified engineer to conduct a geotechnical investigation of the reservoir site and prepare a report with design and siting recommendations. The investigation shall address, at a minimum, geology of the site and vicinity, as appropriate; subsurface conditions, based on exploratory pits, trenches and adits (horizontal borehole), drilling, coring, geophysical surveys; tests to determine seepage rates; and physical tests to measure in place the properties and behavior of foundation materials at the reservoir site. The investigations and recommendations therefrom shall be used to achieve the following performance criteria during construction and operation of the reservoir:</p> <ul style="list-style-type: none"> ▶ The embankment, foundation, abutments, and reservoir rim shall be stable and able to withstand all loading conditions brought about by construction of the embankment, reservoir operation, and earthquakes. 	<p>Retain a qualified engineer to conduct a geotechnical investigation of the reservoir site and dairy ponds and prepare a report with design and siting recommendations.</p> <p>Retain qualified professional engineers to design and construct the earthen berms of the reservoir and dairy ponds consistent with best professional standards and, in cooperation with Cal Poly and SWRCB, taking into consideration applicable Waste Discharge Requirements and consistent with the results of the geotechnical investigation.</p> <p>Prepare and implement a Spill Prevention and Emergency Response Plan that shall be reviewed and approved by SWRCB before project operations begin.</p>	<p>DE</p>	<p>During project design phase</p>	<p>Cal Poly Facilities Management and Development</p>

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	<ul style="list-style-type: none"> ▶ Seepage flow through the embankment, foundation, abutments, and reservoir rim shall be controlled to prevent excessive uplift pressures; piping (internal erosion); instability; sloughing; removal of material by solutioning; or erosion of material into cracks, joints, or cavities. The amount of water lost through seepage shall be controlled so that it does not interfere with planned project functions. ▶ The embankment shall be designed not to overtop or experience encroachment of freeboard during occurrence of the design storm event through the provision of sufficient height, spillway, or outlet works capacity. ▶ Freeboard must be sufficient to prevent overtopping by waves. ▶ Bank height should be sufficient to allow for settlement of the foundation and embankment, but not included as part of the freeboard. ▶ The embankment slopes shall be protected against rain erosion. ▶ The pond facility shall be lined, which would minimize leakage and protect slopes. ▶ A geotechnical engineer shall design the slopes of the pond facility with industry standard construction quality assurance to ensure slope stability. ▶ The pond liner shall receive industry standard operational monitoring for liner leakage throughout the life of the pond liner. <p>Further, Cal Poly shall prepare and implement a Spill Prevention and Emergency Response Plan that shall be reviewed and approved by SWRCB prior to initiation of operations for the new reservoir.</p>				

Noise and Vibration

<p>Campus Master Plan EIR Impact 3.10-1: Generate Substantial</p>	<p>Campus Master Plan EIR Mitigation Measure 3.10-1: Implement Construction-Noise Reduction Measures</p>	<p>Include measures in contractor specifications. Inspect construction site to verify that measures are being implemented.</p>	<p>CO</p>	<p>Before and during construction</p>	<p>Cal Poly Facilities Management and Development</p>
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Temporary (Construction) Noise	<p>For all construction activities related to new/renovated structures, Cal Poly shall implement or incorporate the following noise reduction measures into construction specifications for contractor(s) implementation during project construction:</p> <ul style="list-style-type: none"> ▶ All construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation. ▶ All construction equipment and equipment staging areas shall be located as far as possible from nearby noise-sensitive land uses, and/or located to the extent feasible such that existing or constructed noise attenuating features (e.g., temporary noise wall or blankets) block line-of-site between affected noise-sensitive land uses and construction staging areas. ▶ Individual operations and techniques shall be replaced with quieter procedures (e.g., using welding instead of riveting, mixing concrete off-site instead of on-site, using electric powered equipment instead of pneumatic or internal combustion powered equipment) where feasible and consistent with building codes and other applicable laws and regulations. ▶ Stationary noise sources such as generators or pumps shall be located as far away from noise-sensitive uses as feasible. ▶ No less than 1 week prior to the start of construction activities at a particular location, notification shall be provided to nearby off-campus, noise-sensitive land uses (e.g., residential uses) that are located within 350 feet of the construction site (i.e., based on the construction noise modeling, distance at which noise-sensitive receptors would experience noise levels exceeding acceptable daytime construction-noise levels). ▶ When construction would occur within 350 feet of on-campus housing or other on-campus or off-campus noise-sensitive uses and may result in temporary noise levels in 				

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	<p>excess of 75 L_{max} at the exterior of the adjacent noise-sensitive structure, temporary noise barriers (e.g., noise-insulating blankets or temporary plywood structures) shall be erected, if deemed to be feasible and effective, between the noise source and sensitive receptor such that construction-related noise levels are reduced to 75 L_{max} or less at the receptor.</p> <ul style="list-style-type: none"> ▶ Loud construction activity (e.g., jackhammering, concrete sawing, asphalt removal, and large-scale grading operations) within 350 feet of adjacent primary school facilities, shall not occur during state standardized testing time periods for the surrounding school districts. ▶ When construction requires material hauling, a haul route plan shall be prepared for construction of each facility and/or improvement for review and approval by the Cal Poly that designates haul routes as far as feasible from sensitive receptors. ▶ The contractor shall designate a disturbance coordinator and post that person's telephone number conspicuously around the construction site and provide to nearby residences. The disturbance coordinator shall receive all public complaints and be responsible for determining the cause of the complaint and implementing any feasible measures to alleviate the problem. ▶ Construction activities (excluding activities that would result in a safety concern to the public or construction workers) shall be limited to between the hours of 7:00 a.m. and 7:00 p.m., Monday through Saturday, where feasible. For any construction activity that must extend beyond the daytime hours of 7:00 a.m. and 7:00 p.m. Monday through Saturday, occur on Sunday, or legal holidays, and occurs within 2,000 feet of a residential building, Cal Poly shall ensure that the City of San Luis Obispo exterior noise level standard of 60 dBA L_{max} for temporary construction noise is not exceeded at any residence. Typical residential structures with windows closed achieve a 25-30 dBA exterior-to-interior noise reduction (Caltrans 2002). Thus, using the lower end of this 				

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	<p>range, an exterior noise level of 60 dBA Lmax would result in interior noise levels of about 35 dBA Lmax, which would not result in a substantially increased risk for sleep disturbance. If exterior noise levels of 60 dBA Lmax are infeasible due to type of construction activity and proximity to residential structures, ensuring interior noise levels do not exceed 45 dBA L_{eq}, consistent with City standards, would ensure residents are not disturbed. To achieve this performance standard, one or more of the following or equivalent measures shall be considered and implemented where appropriate:</p> <ul style="list-style-type: none"> ▪ Use of noise-reducing enclosures and techniques around stationary noise-generating equipment (e.g., concrete mixers, generators, compressors). ▪ Installation of temporary noise curtains installed as close as possible to the boundary of the construction site within the direct line of sight path of the nearby sensitive receptor(s) and consisting of durable, flexible composite material featuring a noise barrier layer bounded to sound-absorptive material on one side. ▪ Retain a qualified noise specialist to develop a noise monitoring plan and conduct noise monitoring to ensure that noise reduction measures are achieved the necessary reductions such that levels at the receiving land uses do not exceed exterior noise levels of 60 dBA Lmax for construction activity occurring during these noise-sensitive hours. 				
Utilities and Service Systems					
Impact 3.6-1: Cause Disruption to or Require Relocation of Existing Utility Infrastructure	Mitigation Measure 3.6-1: Locate and Avoid Underground Utilities in Areas Where Excavation Is Proposed, and Prepare a Response Plan to Be Implemented If Accidental Disruption Occurs	Implement the specified measures before construction begins to avoid and minimize potential damage to utilities that could result in disruption of services.	CO	Before construction	Cal Poly Facilities Management and Development

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	<p>Cal Poly will implement the following measures before construction begins, to avoid and minimize potential damage to utilities that could result in disruption of services:</p> <ul style="list-style-type: none"> ▶ Before the start of construction activities, verify through field surveys and the services of Underground Service Alert the locations of any utilities (e.g., high-pressure natural gas, fuel, storm water, sewer, water, electrical, or communication) that may be buried at the project site in the areas where excavation is proposed. Any buried utility lines will be clearly marked in the field. ▶ Inform all construction personnel of the location of utilities during safety briefings throughout the period when construction is occurring. The locations of utilities will be clearly identified on construction drawings and posted in the construction superintendent's trailer. ▶ Prepare a response plan that identifies chain-of-command rules for notification of authorities and appropriate actions and responsibilities regarding the safety of the public and workers. A component of the response plan will include worker education training in response to such situations. The plan will include telephone numbers for existing utility providers. This information also will be posted in the construction superintendent's trailer on the job site during construction. 				

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