APPENDIX X

MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation and Monitoring Reporting Program (MMRP) has been formulated based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) prepared for the proposed North Coast Trails Project (proposed project). The purpose of the MMRP is to ensure the implementation of mitigation measures identified as part of the environmental review for the project. The MMRP includes the following information:

- A list of mitigation measures;
- The party responsible for implementing the mitigation measure;
- The timing for implementation of the mitigation measure;
- The agency/city department responsible for monitoring the implementation; and
- The monitoring action and frequency.

If the IS/MND is adopted, and if the County approved the project, including the mitigation measures as conditions of approval, then Sonoma County Regional Parks (SCRP) must adopt this MMRP, or an equally effective program.

Table 1: Mitigation Monitoring and Reporting Program

Mitigation Measures	Implementation Actions	Monitoring/ Reporting Responsibility	Timing Requirements	Verification By/Date
I. AESTHETICS				
There are no significant impacts related to aesthetics.				
II. AGRICULTURAL RESOURCES				
There are no significant impacts related to agricultural resources.				

Mitigation Measures	Implementation Actions	Monitoring/ Reporting Responsibility	Timing Requirements	Verification By/Date
III. AIR QUALITY Mitigation Measure AQ-1: The Project Contractor and SCRP shall construct and conduct needed maintenance activities on the Project site to control dust from eaving the site. Specific control measures include the following: 1. The Contractor will be required to spray water or dust palliative on unpaved construction, staging areas, and to stockpiles of soil as needed to control dust during construction. SCRP staff will be required to spray water or dust palliative on unpaved areas as needed during maintenance activities. 2. The Contractor will be required to cover loads of soil, sand, and other loose materials over public roads, keep the loads at least two feet below the level of the sides of the hauling container, and wet the load sufficiently to prevent dust emissions during construction of the proposed Project. SCRP staff will be required to cover loads of soil, sand, and other loose materials over public roads, keep the loads at least two feet below the level of the sides of the hauling container, and wet the load efficiently to prevent dust emissions as needed during maintenance activities. 3. The Contractor will be required to sweep paved roads as needed to remove soil that has been carried onto them from the Project site during construction. SCRP staff will be required to sweep paved roads as needed to remove soil that has been carried onto them from the Project site due to maintenance activities 4. The Contractor will be required to operate all construction vehicles and equipment with emission levels that meet current air quality standards and to minimize idling time for all heavy equipment to reduce on-site emissions levels that meet current air quality standards and to minimize idling time for all heavy equipment to reduce on-site emissions levels that meet current air quality standards and to minimize idling time for all heavy equipment to reduce on-site emissions during maintenance activities.	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation. SCRP shall implement and oversee maintenance projects that would potentially generate dust. 	SCRP is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure.	SCRP shall monitor construction to ensure implementation. SCRP shall implement and oversee maintenance projects that would potentially generate dust.	

Mitigation Measures	Implementation Actions	Monitoring/ Reporting Responsibility	Timing Requirements	Verification By/Date
IV. BIOLOGICAL RESOURCES		,		
Mitigation Measure BIO-1 - Contractor/Worker Awareness Training All construction workers shall receive environmental awareness training to be conducted by a qualified biologist. The training may also be conducted with a site -specific electronic presentation. Training shall include how to recognize all special-status plant/wildlife species, their preferred habitat potentially present in the Project site, applicable laws and regulations regarding each species, actions to take if a special-status species is observed during construction activities (including contact information of the monitoring biologist, purpose of protective measures and documentation of best management practices (BMPs) and other required mitigation measures that were used). They shall also be instructed as to sensitive resource areas, including wetlands and waters of the U.S., to avoid within the Project site other than where impacts have been authorized, and relevant laws and regulations for each resource.	 Include measure as Condition of Approval. Implementation actions are outlined in the mitigation measure. 	 SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction. A qualified professional biologist is responsible for conducting training sessions. The Project Contractor is responsible for ensuring work is stopped if species are observed within the Project site. 	Review and verification prior to construction.	
Mitigation Measure BIO-2 - Trail Alignment Fencing and Interpretive Signage Fencing shall be used in strategic areas to protect sensitive biological resources. The monitoring biologist will provide recommendations for where fencing should be placed to protect sensitive resources. Fencing would be used to minimize trampling and disturbance to onsite special-status plant populations, harassment, disturbance, injury and/or mortality to on-site special-status wildlife species, degradation to aquatic/riparian features; and/or disturbance to nesting native bird species. New or relocated fencing and gates would only be located where trails are adjacent to sensitive biological habitats or areas where special-status plant and/or wildlife species are known to occur. Fencing will be designed and reviewed by the monitoring biologist to allow movement of wildlife species. Interpretive signage will be provided in the staging areas to provide information about staying on the trail and avoiding damaging sensitive plant and wildlife species and other sensitive resources.	 Approval. Incorporate measure as part of construction specifications. 	SCRP is responsible for incorporating measure into contract specifications and for ensuring compliance during construction	Review of construction schedule and confirmation by biological monitor prior to start of construction; SCRP shall ensure compliance with project design.	

Mitigation Measure BIO-3 - Construction Schedule SCRP will structure the Project construction schedule to minimize and avoid impacts to special-status species and sensitive habitats, to the greatest extent possible. The conceptual construction schedule is based upon the avoidance periods for each species and habitat of concern, as well as regulatory constraints. The conceptual construction schedule may change based on completion of the CEQA processes, the construction bid process, regulatory permit conditions, and special conditions contained within the regulatory permits. SCRP will remove trees and shrubs in advance of bird-nesting season. Implement appropriate measures in the storm water pollution prevention plan and install exclusionary fencing to prevent CA redlegged frog and other sensitive species from entering/ re-entering work areas. SCRP will conduct ground-disturbing construction activities associated with the Project during this timeframe with the exception of vegetation removal, which will be conducted to avoid impacts to sensitive animal species. Construction activities that are not ground disturbing may occur before and after this timeframe.	as part of construction specifications.	SCRP is responsible for incorporating measure into contract specifications and for ensuring compliance during construction	Review of construction schedule and confirmation by biological monitor prior to start of construction.
Mitigation Measure BIO-4 - Special Status Species Butterflies To avoid/minimize direct and indirect impacts to special status butterfly species within or adjacent to the proposed trail corridors as a result of Project implementation, the following measures shall be implemented. A pre-construction survey shall be performed no sooner than 30 days prior to the onset of construction to identify the presence of host plant species along both trail corridors, and staging areas. If any host plants are observed within areas proposed for ground disturbance, they shall be marked with pin flags and surveyed to determine if any butterfly eggs, larva or pupa are attached to the plants. If any of these life stages of the butterfly are observed attached to the plants, the plants shall be avoided until the pupa has metamorphosed into adult butterflies and are no longer attached to the host plants. If avoidance of host plants is not considered possible, a qualified botanist shall be consulted to prepare a translocation plan to transplant the plants, once any pre-adult life stages of the butterfly are determined not to be present, to a suitable location on the Project site. The plan shall contain, at a minimum, the following: (a) goals and objectives of the transplantation; (b) methods of collection and transplantation; (c) location of the area(s) on site in which the	 Include measure as Condition of Approval. Incorporate measure as part of construction specifications. Implementation actions are outlined in the mitigation measure. 	 SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction. A qualified biologist is responsible for conducting surveys, monitoring vegetation removal, overseeing fence installation, and monitoring during construction. 	 Verification of awareness training prior to construction. Review of preconstruction survey prior to construction. Periodic monitoring throughout the construction period.

plants will be transplanted; (d) monitoring methods and timing; (e)				1
success criteria; and (f) measures to be taken in the event that the				
transplantation is not successful. In addition, the plan shall be				
approved by the County and by the USFWS since these butterfly				
species are federally listed as endangered.				
Mitigation Measure BIO-5 - California Red-legged Frog	Include measure	SCRP is responsible for	Verification of	
To avoid/minimize direct and indirect impacts to California red-legged	as Condition of	incorporating measure	awareness training	
frog (CRLF) within or adjacent to the proposed trails as a result of	Approval.	into contract	prior to	
Project implementation, the following measures shall be	 Incorporate measure 	specifications, and for	construction.	
implemented:	as part of construction	ensuring compliance during construction.	 Review of preconstruction 	
1. SCRP will design the trail and associated facilities with	specifications.	A qualified biologist is	survey prior to	
appropriate spanning structures (bridges/boardwalks) to avoid	Implementation	responsible for	construction.	
foot traffic in sensitive wetland and riparian habitats.	actions are outlined	conducting surveys,	Periodic	
	in the mitigation	monitoring	monitoring	
2. The Contractor will perform major ground-disturbing work,	measure.	vegetation removal,	throughout the	
such as excavation, grading and pier installation, during the dry-		overseeing fence	construction	
season to minimize impact to California red-legged frog (CRLF).		installation, and	period.	
The dry-season is typically May 15 – November 30, when		monitoring during		
rainwater has receded and standing water is not present.		construction.		
2. SCDD will conduct a pro-construction current for CDLE 49 hours				
3. SCRP will conduct a pre-construction survey for CRLF 48-hours prior to the onset of construction activities. Construction				
activities will only be allowed in areas that have been surveyed.				
activities will offly be allowed in aleas that have been surveyed.				
4. SCRP will conduct a pre-construction training session for all				
construction crew members. The training will include discussion				
of the sensitive biological resources within the Project area and				
the potential presence of special-status species. A discussion of				
CRLF status, life history characteristics, protection measures to				
ensure CRLF and other sensitive resources are not impacted by				
construction activities and the work area boundaries will also				
be included.				
5. The Contractor will install and properly maintain temporary				
wildlife exclusionary fencing around the work area in sensitive				
wetland and riparian habitats to preclude CRLF from entering				
the construction area following the pre-construction survey.				
Exclusionary fencing should include all sensitive wetland areas,				
including US Army Corps of Engineers, CDFW, and California				
Coastal Commission jurisdictional wetlands.				
SCRP will conduct regular assessments of the work area during				
construction activities to ensure no CRLF or other species have				
entered the work area and are being impacted by construction				
activities. If CRLF are encountered during construction, SCRP				

will have CRLF relocated by an US Fish and Wildlife Service- approved biologist, following consultation with the US Fish and Wildlife Service and the California Department of Fish and Wildlife. 7. SCRP will install signage in the trailhead and along the trail to inform visitors of the sensitive habitats and species within the Project area and requiring visitors to remain on the trail to avoid impacts to the sensitive habitats and species.				
Mitigation Measure BIO-6 - Burrowing Owl To avoid/minimize direct and indirect impacts on burrowing owls as a result of Project implementation, the following measures shall be implemented: 1. Protocol-level surveys for burrowing owls shall be conducted 30 days prior to scheduled construction activity that is conducted during the breeding season (March through August) to determine whether burrowing owls are present on site and, if so, their breeding status. Surveys shall be conducted by a qualified biologist with experience conducting such surveys. 2. If during surveys, burrows are observed being used by nonnesting burrowing owls within the construction footprint, construction work shall cease until owls are evacuated from any such burrow using a California Department of Fish and Wildlife-approved burrow closure procedure in accordance with the California Department of Fish and Game "Staff Report on Burrowing Owl Mitigation" (CDFW 2012) and by a qualified biologist. Once owls from any such burrow have been successfully evacuated, the burrow can be collapsed and construction work can proceed. 3. If nesting burrowing owls are observed during these surveys, construction work within 300 feet of active nest burrows shall be delayed until young have fledged and are independent of the nest burrow, as determined by a qualified biologist. The	specifications. Implementation actions are outlined in the mitigation measure.	 SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction. A qualified biologist is responsible for conducting surveys and monitoring during construction. 	 Verification of awareness training prior to construction. Review of preconstruction survey prior to construction. Periodic monitoring throughout the construction period. 	
qualified biologist may reduce the 300-foot setback based on the type, timing, extent, and intensity of the construction activity and other factors such as site topography and vegetation cover between the construction activity and the burrow. Once any young have fledged and are no longer dependent upon the nest burrow, the same burrow closure procedure described above shall be used to confirm the burrow is inactive before ground disturbance activities can				

continue near the burrow.				
Mitigation Measure BIO-7 - American Badger The Construction Bid Documents will specify that the Contractor conduct ground-disturbing activities, including vegetation removal in habitat areas only between September 1 and February 28 to avoid the natal season for American badger. If it is not feasible to conduct ground-disturbing activities, including vegetation removal and grading to avoid natal season for the American badger in these habitat areas then SCRP will complete the following: 1. To ensure there are not direct impacts to American badger, a qualified biologist shall conduct a pre-construction den survey no more than 21 days prior to site grading. The area to be surveyed will include all construction sites and staging areas in suitable habitat areas for which vegetation removal and grading is required, to a buffer of 150 feet outside the boundary of the area to be cleared. Survey results will remain valid for a period of 21 days following the date of the survey. 2. If a potential den is located, infrared camera stations will be set up and maintained for three (3) consecutive nights at the potential den openings prior to initiation of grading/work activities to determine the status of the potential dens. 3. If American badger is not found to be using the den, the burrow can be filled (using hand work and shovels) and site grading may proceed in the vicinity of this burrow(s) unhindered. However, if American badger is found using a den site within the area of proposed grading, provided it is not a natal den, the badger will be passively and humanely evicted from its den if it could be impacted by grading or other construction activities.	 Include measure as Condition of Approval. Incorporate measure as part of construction specifications. Implementation actions are outlined in the mitigation measure. 	 SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction. A qualified biologist is responsible for conducting surveys and monitoring during construction. 	 Verification of awareness training prior to construction. Review of preconstruction survey prior to construction. Periodic monitoring throughout the construction period. 	
 Exclusion techniques will be used to passively relocate any badgers that are present in the Project work area, or within 150 feet of Project activities at the discretion of the qualified biologist. 				
 Exclusion techniques, such as installation of a one-way door in the burrow entrance, would exclude badgers from entering the burrow. Burrows with exclusion techniques will be monitored to confirm badger usage has been discontinued. 				

After badger use has been discontinued, burrows outside the Project work area, but within 150 feet of construction activities, will be temporarily covered with plywood sheets or similar material. Burrows within the Project work area will be hand-excavated and collapsed to prevent reoccupation. 4. If a natal den is found, then an eviction plan will be prepared and submitted to CDFW for discussion and approval. Evictions shall not occur until CDFW approves the passive eviction plan. The Construction Contractor will be directed to postpone all ground-disturbing construction activities, including vegetation removal, within 100 feet of the active natal burrow. No ground-disturbing activity will be allowed to occur within this area until it is determined that the young have dispersed the natal burrow. 5. SCRP will include information about sensitive habitats and the nocturnal presence of American badgers as part of the interpretive signage program associated with this Project.				
Mitigation Measure BIO-8 - Special-Status Bats To ensure that the noise of construction equipment would not adversely affect any maternity roosts that could occur adjacent to existing structures, a pre-construction survey shall be conducted by a qualified bat biologist to determine if active maternity roosts exist within the structure. If maternity roosts are observed, and construction of the access road and/or staging areas adjacent to the barn or outbuilding would occur at the time the roosts are active, equipment emitting ultrasonic noise (i.e., those having frequencies above the range of human hearing >20 kilohertz [kHz]) shall be prohibited from the construction area until the maternity roost is no longer active, as determined by the qualified bat biologist. Alternatively, equipment that emits noise with frequencies <20 kHz can be used to grade and prepare the access road and staging areas adjacent to the barn and outbuilding. Fencing may also be used as necessary to keep users on trail and away from the barn and roosting bats.	 Include measure as Condition of Approval. Incorporate measure as part of construction specifications. Implementation actions are outlined in the mitigation measure. 	 SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction. A qualified biologist is responsible for conducting surveys, monitoring noise and monitoring during construction. 	 Verification of awareness training prior to construction. Review of preconstruction survey prior to construction. Periodic monitoring throughout the construction period. 	

Mitigation Measure BIO-9 - Native Nesting Birds The Construction Bid Documents will stipulate that the Construction Contractor can only remove trees, shrubs, and other vegetation between August 31 and February 15 to avoid migratory bird-nesting season. If it is not feasible to remove vegetation within this window, then SCRP will complete the following: 1. Conduct a bird-nesting survey at least seven (7) days prior to ground-disturbing activities in a specific construction work area, including vegetation removal. The area to be surveyed will include all construction activity areas, including staging areas, for which vegetation removal is required, to a buffer of 150 feet outside the boundary of the area to be cleared. Survey results will remain valid for a period of 21 days following the date of the survey. 2. If an active nest is found, Regional Parks will consult with the CDFW to determine the appropriate buffer size and then establish the buffer zone around the occupied nest, using fencing, pin flags, yellow caution tape, or other CDFW-approved material. Vegetation clearing and construction activities will be postponed within the buffer zone; no construction—related activity will be allowed to occur within this area until it is determined that the young have fledged, the nest is vacated, and there is no evidence of second nesting attempts. SCRP will require a qualified biologist regularly monitor the buffer area during construction activities to evaluate the nest(s). 3. If an active nest is found after the completion of the preconstruction surveys and after construction activities have begun, all construction activities will cease immediately until a qualified biologist has evaluated the nest and a CDFW-approved buffer zone has been created. If establishment of a buffer zone is not feasible, SCRP will contact CDFW for further avoidance and impact minimization guidelines.	ensuring compliance during construction.A qualified biologist is responsible for	 Verification of awareness training prior to construction. Review of preconstruction survey prior to construction. Periodic monitoring throughout the construction period. 	
Mitigation Measure BIO-10 - Special-Status Plants 1. To avoid/minimize direct and indirect impacts to special-status plant populations within or adjacent to the proposed trail corridors as a result of Project implementation, the following measures shall be implemented: 2. SCRP will contract with a qualified biologist (botanist or plant ecologist) to conduct a focused survey for special status plan species in habitat areas that can support these species during their	A qualified professional biologist is responsible for monitoring during	Monitoring during specified construction activities.	

blooming period, prior to the on-set of ground-disturbing activities.	specifications.	construction activities.	
3. Based on the survey results, SCRP or a qualified biologist will flag areas with special status species prior to the onset of ground-disturbing activities. The Contractor will avoid impacts to marked populations and individuals of these species.			
4. If disturbance cannot be avoided, SCRP will consider realigning the affected trail segment where possible. If trail re-route is not possible, SCRP will consult with the CDFW to develop and implement a plan to harvest and re-locate, collect seed collection or re-seed and replant (a Habitat Mitigation and Monitoring Plan or HMMP).			
5. The HMMP will specify that relocation/re-seeding or planting occur at a level necessary to ensure at least a 1:1 survival rate, meaning one surviving replanted individual for every individual removed or impacted (take) in order to construct the Project.			
6. SCRP will conduct a mandatory Contractor / Worker Awareness Training, instructing workers how to identify and avoid "take" of special status plant species. If such species are observed during construction activities that were not identified during preconstruction surveys, work will immediately cease in the vicinity of the discovery until SCRP develops and implements additional mitigation measures and authorizes work continuation.			
7. SCRP will include information about sensitive plant habitats as part of the interpretive signage program associated with this trail Project.			
Mitigation Measure BIO-11 - Coastal Terrace Prairie, Seasonal Wetlands and Coastal Scrub Riparian Communities To avoid/minimize direct and indirect impacts to Coastal Terrace Prairie, Seasonal Wetlands and Coastal Scrub Riparian Communities within or adjacent to the proposed trail corridors as a result of Project implementation, the following measures shall be implemented: 1. Exclusionary fencing shall be installed during construction to avoid riparian vegetation where bridges are proposed. Sediment	 Include measure as Condition of Approval. Incorporate measure as part of construction specifications. Implementation actions are outlined in the mitigation measure. 	 SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction. A qualified biologist is responsible for conducting surveys, monitoring vegetation 	 Verification of awareness training prior to construction. Review of preconstruction survey prior to construction. Periodic monitoring
and erosion control measures shall be utilized that can include, but are not limited to, biodegradable straw wattles free from weed seed, silt fencing, hydroseeding, or biodegradable erosion control mats/blankets.		removal, overseeing fence installation, and monitoring during construction.	throughout the construction period.

2.	If riparian vegetation removal and/or disturbance to the bed,		
	bank, or channel of the central drainage is necessary, a		
	Streambed Alteration Agreement (SAA), pursuant to Section		
	1602 of the California Fish and Game Code, shall be procured		
	from the California Department of Fish and Wildlife (CDFW) prior		
	to any disturbances to these areas. As part of the SAA,		
	compensatory mitigation may be required to offset the loss of		
	riparian habitat. If so, a mitigation plan shall be prepared to		
	address implementation and monitoring requirements under the		
	SAA to ensure that the Project would result in no net loss of		
	habitat functions and values. The plan shall contain, at a		
	minimum, mitigation goals and objectives, mitigation location, a		
	discussion of actions to be implemented to mitigate the impact,		
	performance criteria, monitoring methods, and actions to be		
	taken in the event that the mitigation is not successful.		
	Mitigation may be required at a ratio directed by the SAA.		
	willigation may be required at a ratio directed by the SAA.		
2	A new construction survivus shall be completed prior to the ansat		
3.	A pre-construction survey shall be completed prior to the onset		
	of construction to identify and quantify the plants along or		
	immediately adjacent to the proposed trail corridors that could		
	be potentially removed or disturbed. If removal or disturbance of		
	any of these plant communities would occur, a planting plan shall		
	be prepared to offset the loss of any vegetation/plants to be		
	removed or disturbed. Propagation and planting outside of the		
	trail corridor(s) may be required on a 1:1 basis to ensure no net		
	loss of these sensitive natural communities.		
	CODD III		
4.	SCRP will:		
a.	Plant native trees and shrubs at a 3:1 ratio for any trees removed		
	that have a breast-height diameter of 6-inches or greater. In the		
	case of removal of non-native species, a suitable native species		
	will be selected for replanting.		
b.	Hydroseed and/or direct seed the temporary construction areas		
	with a seed mix based on the native grasses, forbs, and flowers		
	disturbed to construct the Project.		
c.	In order to maintain the genetic integrity and diversity of native		
	plants, revegetation will utilize on-site seed stock to the		
	maximum extent possible.		
d.	The final installation/placement of the trail shall be finalized in		
	the field to avoid/minimize the placement of the matting over		
	patches of sensitive vegetation. Prior to installation, appropriate		
	signage shall be placed at the beginning of the access trail and at		
	appropriate locations along the trail prohibiting off trail use. The		
	signage shall also include information on the sensitivity of habitat		
	areas		

Mitigation Measure BIO-12 - Wetlands

To avoid/minimize direct and indirect impacts to wetlands within or adjacent to the proposed trail corridors as a result of Project implementation, the following measures shall be implemented:

- 1. The proposed trails and bridge crossings shall avoid mapped jurisdictional wetland areas and waters of the U.S. to the extent feasible. Areas of temporary disturbance due to construction shall be restored to pre-construction condition. Drainage crossings shall be designed to avoid wetland disturbance. Prior to the initiation of ground disturbance activities within 100 feet of wetland habitat areas, sediment and erosion control measures shall be utilized that can include, but are not limited to, biodegradable straw wattles free from weed seed, silt fencing, hydroseeding, or biodegradable erosion control mats/blankets.
- If wetland areas or other waters of the U.S. under the jurisdiction of the ACOE are disturbed in order to install drainage crossings, an individual or Nationwide permit from the ACOE shall be obtained prior to any ground disturbance that could result in fill or removal of wetlands or waters of the U.S. As part of the ACOE permit, compensatory mitigation may be required, at a ratio to be determined by the ACOE, to offset the loss of wetland/waters habitat. If so, and as part of the permit application process, a mitigation and monitoring plan (MMP) shall be prepared to address implementation and monitoring requirements under the permit to ensure that the Project would result in no net loss of habitat functions and values. The plan shall contain, at a minimum, mitigation goals and objectives, mitigation location, a discussion of actions to be implemented to mitigate the impact, monitoring methods and performance criteria, extent of monitoring to be conducted, actions to be taken in the event that the mitigation is not successful, and reporting requirements.

- Include measure
 as Condition of
 Approval.
- Incorporate measure as part of construction specifications.
- Implementation actions are outlined in the mitigation measure.
- SCRP is responsible for incorporating measure into contract specifications, and for ensuring compliance during construction.
- A qualified biologist is responsible for conducting surveys, monitoring vegetation removal, overseeing fence installation, and monitoring during construction.
- Verification of awareness training prior to construction.
- Review of preconstruction survey prior to construction.
- Periodic monitoring throughout the construction period.

Mitigation Measures	Implementation Actions	Monitoring/ Reporting	Timing Requirements	Verification By/Date
V. CULTURAL RESOURCES		Responsibility		
Mitigation Measure CR-1: If buried archeological resources, such as chipped or ground stone, historic debris building foundations, or human bone, are inadvertently discovered during ground-disturbing activities, work would stop in that area and within 100 feet of the find until the Kashia Band of Pomo Indians is contacted about the finds. The Band will determine whether a qualified archaeologist should assess the significance of the find and, if necessary, develop appropriate treatment measures in consultation with the Parks Department and other appropriate agencies, or whether an alternative approach is warranted for the finds.	 Include measure as Condition of Approval. Incorporate measure as part of construction specifications. 	SCRP is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. The Project Contractor is responsible for coordinating and cooperating with the Kashia Band of Pomo Indians during monitoring, worker training, and any stopwork orders if resources are discovered.	Prior to and during construction activities.	
Mitigation Measure CR-2: If human remains of Native American origin are discovered during Project construction, it is necessary to comply with state laws relating to the disposition of Native American burials, which fall within the jurisdiction of the Native American Heritage Commission (NAHC) (PRC 5097). If any human remains are discovered or recognized in any location other than a dedicated cemetery, there will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the county coroner has been informed and has determined that no investigation of the cause of death is required; and If the remains are of Native American origin, the Kashia Band of Pomo Indians shall be contacted to determine the means of treating or disposing of the human remains and any associated grave goods as provided in PRC 5097.98.	 Include measure as Condition of Approval. Implementation 	SCRP is responsible for incorporating measure into contract specifications and for ensuring compliance	During construction activities.	
VI. ENERGY There are no significant impacts related to energy.				

Mitigation Measures	Implementation Actions	Monitoring/ Reporting	Timing Requirements	Verification By/Date
· ·		Responsibility	89	7,7200
VII. GEOLOGY AND SOILS			CORD I II II	
Mitigation Measure GS-1:Design and construct the Project in compliance with the Sonoma County Code, including the Building Ordinance (Chapter 7), Drainage and Storm Water Management Ordinance (Chapter 11), and Subdivision Ordinance (Chapter 25). All construction activities shall meet the California Building Code regulations for seismic safety. Construction plans shall be subject to review and approval of Permit Sonoma prior to the issuance of a building permit. All work shall be subject to inspection by Permit Sonoma and must conform to all applicable code requirements and approved improvement plans prior to the issuance of a certificate of occupancy. SCRP shall apply for building permits from Permit Sonoma and further modify the trail alignment and develop trail and crossing design and stabilization plans to ensure that permits are granted and that the trail and crossing structures, including all existing culverts, are stable and hydraulically adequate. This will ensure County review of improvement plans; and that all structures such as bridges and boardwalks adhere to the Sonoma County Codes and applicable Building Ordinances, including grading, drainage, and seismic design criteria for planned structures.	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation. 	 SCRP is responsible for incorporating measure into contract specifications Permit Sonoma is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. 	SCRP shall monitor construction to ensure implementation. Permit Sonoma shall review for compliance with Building Permit.	
Mitigation Measure GS-2: The Project design shall conform to the specifications and criteria contained in the Project Geotechnical Report. Geotechnical recommendations were prepared and presented in the North Coast Trails Preliminary Geotechnical Report prepared by Questa Engineering dated August 2018. The report provided recommendations for site preparation and grading, parking lots, and bridge foundations. The report also identified seismic design parameters in accordance with the 2020 California Building Code. Proper foundation engineering and construction of any structures such as small bridge structures built as a result of implementation of the Project shall be performed in accordance with the geotechnical recommendations as well as preparation of plans prepared by a Registered Structural Engineer or Civil Engineer experienced in structural design. The structural engineering design shall incorporate seismic design parameters as outlined in the current California	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure 	 SCRP is responsible for incorporating measure into contract specifications Permit Sonoma is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. 	SCRP shall monitor construction to ensure implementation. Permit Sonoma shall review for compliance with Building Permit.	

Building Code and Sonoma County Code.	implementation.		
Mitigation Measure GS-3: SCRP and the Construction Contractor shall finalize the Draft SWPPP and submit it and the Notice of Intent to the North Coast Regional Board and, if required by the State Water Resources Control Board, amend the SWPPP to obtain an approved Final SWPPP. The applicant shall implement all conditions set forth in the Final SWPPP. The Project SWPPP shall include a description of the "Best Management Practices" (BMPs) to be used to prevent the discharge of other construction related NPDES pollutants beside sediment (i.e., paint, concrete, etc.) to downstream waters and the ocean. After construction is completed, all drainage facilities shall be inspected for accumulated sediment from the Project and these drainage structures shall be cleared of debris and sediment.	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation. 	 SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. 	SCRP shall monitor construction to ensure implementation. Permit Sonoma shall review for compliance with Building Permit.
Mitigation Measure GS-4: SCRP shall complete an Erosion Control Plan to be submitted to Permit Sonoma in conjunction with the Building Permit Application. The Erosion Control Plan shall include winterization, dust control, erosion control and pollution control measures conforming to the Association of Bay Area Government (ABAG) Manual of Standards for Erosion and Sediment Control Measures and the California Stormwater Quality Association (CASQA) Stormwater Best Management Practice Handbook Portal: Construction. The Erosion Control Plan shall describe the "Best Management Practices" (BMPs) to be used during and following construction to control pollution resulting from both storm and construction water runoff. The Plan shall include locations of vehicle and equipment staging, portable restrooms, mobilization areas, and planned construction access routes.	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation. 	SCRP is responsible for incorporating measure into contract specifications Permit Sonoma is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure.	SCRP shall monitor construction to ensure implementation. Permit Sonoma shall review for compliance with Building Permit.
Mitigation Measure GS-5: If vertebrate fossils are discovered during construction, all work on the site shall stop immediately, Sonoma County Regional Parks or the Agency's designee shall be notified, and a qualified professional paleontologist shall assess the nature and importance of the find and recommend appropriate treatment. Treatment may include, but is not limited to, preparation and	 Include measure as Condition of Approval. Implementation actions are outlined in the mitigation measure. 	SCRP is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. A qualified	During construction activities.

recovery of fossil materials so that they can be housed in an	paleontologist is	
appropriate museum or university collection and may also include	responsible for	
preparation of a report for publication describing the finds. The	evaluating any	
Project applicant shall be responsible for implementing the	resources found	
recommendations of the qualified paleontologist. A report of all	inadvertently during	
findings shall be submitted to Sonoma County Regional Parks or the	construction; and	
Agency's designee.	identifying appropriate	
	mitigation measures.	
	The Project Contractor	
	is responsible for	
	coordinating and	
	cooperating with the	
	paleontologist and	
	during any stop-work	
	orders if resources are	
VIII. GREENHOUSE GAS EMISSIONS	discovered.	
There are no significant impacts related to greenhouse gas		
emissions.		
IX. HAZARDS AND HAZARDOUS MATERIALS		
There are no significant impacts related to hazards.		

Mitigation Measures	Implementation Actions	Monitoring/ Reporting Responsibility	Timing Requirements	Verification By/Date
Mitigation Measure HYD-1: Regional Parks will schedule ground-disturbing activities including vegetation removal, excavation, grading, and compaction, to the dry season, May 15 – October 31. Regional Parks will schedule ground-disturbing activities below top-of-bank of the unnamed blue-line stream channel between June 15 and October 14. Regional Parks must approve ground-disturbing activities that must occur during the rainy season (November 01 – May 15) based on an approved Storm Water Pollution Prevention Plan (if required).	Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure.	SCRP shall monitor construction to ensure implementation.	

Mitigation Measure HYD-2: Regional Parks will delineate the limits of	1_	Implementsties		CCDD is was name that for	CCDD and Biological	
construction activity within or near wetlands, the unnamed blue-line	•	Implementation actions are outlined	•	SCRP is responsible for	SCRP and Biological Monitor shall	
stream channel, and riparian habitat prior to the onset of ground-		in the mitigation		incorporating measure into contract	monitor	
disturbing activities. Work limit delineation will be temporary, high-		J		specifications	construction to	
visibility construction fencing to protect environmentally sensitive		measure.		•	ensure	
areas and prevent construction work and equipment from	•	The applicant will	•	SCRP and Biological		
unnecessarily extending the work area. Regional Parks will include the		include these		Monitor are	implementation.	
temporary fencing locations on the construction drawings and will		measures in the		responsible for		
require it be removed after construction activities are completed.		construction		ensuring compliance		
		contract.		during construction.		
	•	The Contractor will	•	The Project		
		be responsible for		Contractor is		
		implementing the		responsible for		
		construction-related		implementing this		
		measures.		measure.		
	•	SCRP shall monitor				
		construction to				
		ensure				
		implementation.				
Mitigation Measure HYD-3: The Contractor will disturb only the	•	Implementation	•	SCRP is responsible for	SCRP and Biological	
minimum amount of riparian vegetation possible within the		actions are outlined		incorporating measure	Monitor shall	
construction area. Within temporary disturbance areas, the		in the mitigation		into contract	monitor	
Contractor will cut riparian vegetation at or above grade to facilitate		measure.		specifications	construction to	
natural regrowth.	•	The applicant will	•	SCRP and Biological	ensure	
		include these		Monitor are	implementation.	
		measures in the		responsible for	•	
		construction		ensuring compliance		
		contract.		during construction.		
		The Contractor will	•	The Project		
		be responsible for		Contractor is		
		implementing the		responsible for		
		construction-related		implementing this		
				· -		
		measures.		measure.		
	•	SCRP shall monitor				
		construction to				
		ensure				
		implementation.				
Mitigation Massure LIVD 4. The Contractor will as real with		Landan anta C		CCDD in many 11 L C	CCDD aball maggitter	
Mitigation Measure HYD-4: The Contractor will comply with	•	Implementation	•	SCRP is responsible for	SCRP shall monitor	
regulations of the U.S. Army Corps of Engineers, the California Department of Fish and Wildlife, the North Coast Regional Water		actions are outlined		incorporating measure	construction to	
Quality Control Board and the State Coastal Commission regarding		in the mitigation		into contract	ensure	
construction activities that affect drainages and wetlands.		measure.		specifications	implementation.	
construction activities that affect dramages and wetlands.	•	The applicant will	•	SCRP is responsible for		
		include these		ensuring compliance		
		measures in the		during construction.		
		construction	•	The Project		
		contract.		Contractor is		

	The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	responsible for implementing this measure.	
Mitigation Measure HYD-5: The Contractor will dispose of surplus soils, surplus concrete rubble, or pavement at an acceptable and legally permitted disposal site or taken to a permitted soil concrete and/or asphalt recycling facility.	Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	 SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. 	
 Mitigation Measure HYD-6: The Contractor will implement Best Management Practices to protect geology and soils, including the following: Avoid construction activities during rainy days as directed by Regional Parks. Preserve existing vegetation except what is designated by Regional Parks for removal. Leave root structure of vegetation in place whenever feasible. Minimize the extent of disturbance from construction activities. Stabilize exposed slopes, banks and stockpiles of soil materials during construction using Erosion control blankets, or other method approved by Regional Parks. Stabilize exposed soil by installing erosion control materials such as blankets, mulch, and/or Seed that are free of exotic species or other method approved by Regional Parks. 	Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. SCRP is responsible for ensuring compliance during construction.	

 Mitigation Measure HYD-7: The Contractor will be required to prepare, submit, and implement a spill prevention plan for the Project, which shall include, but not be limited to, the following elements: 1. Follow the provisions of Sections 5163 – 5167 of the General Industry Safety Orders (CCR Title 8) to protect the project site from being contaminated by the accidental release of any Hazardous materials and/or waste. 2. Store all flammable liquids in compliance with the Sonoma County Fire Code and section 7-1.01G of the Caltrans Standard Specification (or the functional equivalent) for the protection of surface waters. 3. If hazardous materials are encountered during construction, the contractor will immediately halt construction activities and will implement actions required by the current California Regulatory requirements. 4. In the event of a spill of hazardous materials the Contractor will immediately call the emergency number 9-1-1 to report the spill; and will take appropriate actions to contain the spill to prevent further migration of the hazardous materials to storm water drains or surface Waters. 5. Prevent the following activities within areas protected by construction barrier fencing: i. Fueling of any vehicles or portable generators ii. Vehicle/equipment washing and maintenance areas iii. Above-ground tanks for liquid storage iv. Industrial waste management areas (landfills, waste piles, treatment plants, disposal areas) 6. The Contractor will use drip pans or absorbent pads during vehicle and equipment maintenance, cleaning, fueling, and storage, 7. Spill kits and cleanup materials shall be available at all locations of pile-driving activities. 8. Equipment that is to be used shall be kept leak free and inspected for leaks and spills on a daily basis. 9. Equipment will be parked over drip pans or absorbent pads. 10. When not in use, the contractor wil	Implementation	SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. SCRP is responsible for	SCRP shall monitor construction to ensure implementation.
petroleum-based products in accordance with applicable laws and regulations.	actions are outlined in the mitigation measure. The applicant will	incorporating measureinto contractspecificationsSCRP is responsible for	construction to ensure implementation.

	include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	ensuring compliance during construction. The Project Contractor is responsible for implementing this measure.		
Mitigation Measure HYD-9: Regional Parks Department operations and maintenance crews will dispose of petroleum-based products in accordance with applicable laws and regulations.	SCRP shall monitor operations to ensure implementation.	SCRP is responsible for implementing this measure.	SCRP shall monitor ongoing operations and maintenance	
Mitigation Measure HYD-10: The Contractor will conduct inspections and maintenance, according to current regulations, of portable toilet facilities used during construction. The contractor will conduct routine waste removal to ensure that effluent spills are avoided or minimized.	Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	 SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor is responsible for implementing this measure. 	SCRP shall monitor construction to ensure implementation.	
Mitigation Measure HYD-11: Regional Parks or the Contractor will prepare a Storm Water Pollution Prevention Plan (SWPPP) for implementation during project construction, if required The SWPPP will include a sediment control plan to identify measures to prevent sediment from entering delineated wetlands, the unnamed tributary, and any other surface drainage within the project area. The sediment control plan will address temporary, construction-related sediment control that may include but not be limited to silt fencing, sediment traps, fiber roles, and/or barriers. The SWPPP will be prepared by a certified Qualified SWPPP Developer and will be monitored by a	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. 	 SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor or SCRP is 	SCRP shall monitor construction to ensure implementation.	

Qualified SWPPP Practitioner.	 The Contractor will 	responsible for	
	be responsible for	implementing this	
	implementing the	measure.	
	construction-related		
	measures.		
	 SCRP shall monitor 		
	construction to		
	ensure		
	implementation.		

Mitigation Measures	Implementation Actions	Monitoring/ Reporting Responsibility	Timing Requirements	Verification By/Date
XI. LAND USE AND PLANNING				
There are no significant impacts related to land use and planning.				
XII. MINERAL RESOURCES				
There are no significant impacts related to mineral resources.				
XIII. NOISE				
 Mitigation Measure N-1: The applicant will reduce construction noise by implementing the following controls: The Contractor will operate all internal combustion engines with mufflers that meet the requirements of the State Resources Code, and, where applicable, the Vehicle Code. The Contractor will restrict construction activities to the hours of 7:00 a.m. to 7:00 p.m. except for actions taken to prevent or resolve an emergency. SCRP will operate all internal combustion engines with mufflers that meet the requirements of the State Resources Code, and, where applicable, the Vehicle Code. 	Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the construction contract. The Contractor will be responsible for implementing the construction-related measures. SCRP shall monitor construction to ensure implementation.	 SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for ensuring compliance during construction. The Project Contractor and SCRP are responsible for implementing this measure. 	SCRP shall monitor construction to ensure implementation.	
XIV. POPULATION AND HOUSING				
There are no significant impacts related to population and housing.				
XV. PUBLIC SERVICES				
Mitigation Measure PS-1: SCRP will monitor and record reports of trespass and other incidents involving unauthorized use of the trails. If such incidents are considered above normal, SCRP will consider the following: increase its patrols; add additional signage; and/or develop a volunteer program to educate users and monitor use.	 Implementation actions are outlined in the mitigation measure. The applicant will include these measures in the 	The Project Contractor and SCRP are responsible for implementing this measure.	SCRP shall monitor trail operations to ensure implementation.	

XVI. RECREATION There are no significant impacts related to recreation. XVII. TRANSPORATION/TRAFFIC Mitigation Measure T-1: At the northern parking lot, the existing driveway section between SR 1 and the locked gate will be widened	construction contract and Resource Management Plan. • Implementation	SCRP is responsible for	SCRP shall monitor	
to provide at least 16 feet of paved width without obstruction from landscaping. An R-1 Stop sign should be installed at the existing driveway intersection approaching SR 1. The sign should not obstruct sight lines and the size should be at the discretion of Caltrans. At the southern parking lot, striping and signage shall be provided at the driveways including "Do Not Enter" signs at the southern exitonly driveway and striped directional arrows identifying the entry and exit driveways. An R-1 Stop sign should be installed at the exit driveway. The sign should not obstruct sight lines and the size should be at the discretion of Caltrans.	actions are outlined in the mitigation measure. SCRP will include traffic design measures in the Project Plans	incorporating measure into contract specifications SCRP is responsible for Caltrans coordination SCRP is responsible for ensuring compliance during construction.	construction to ensure implementation.	
Mitigation Measure T-2: SCRP shall include signage explaining who to call in case of a fire or emergency medical situation as well as the location of the nearest call box. SCRP will initiate coordination with North Sonoma Coast Fire Protection District about access constraints on the Project site and a protocol for providing emergency response. SCRP shall also coordinate with the Sheriff's Office and State Parks to develop this protocol for emergency medical response to the site.	measure.	 SCRP is responsible for incorporating measure into contract specifications SCRP is responsible for Caltrans coordination SCRP is responsible for ensuring compliance during construction. 	SCRP shall monitor construction to ensure implementation.	
XVIII. UTILITIES AND SERVICE SYSTEMS				
There are no significant impacts related to utilities and service systems.				
XIX. WILDFIRE				
There are no significant impacts related to wildfire.				