Date: November 17, 2020	Item Number:Resolution Number:
	☐ 4/5 Vote Required

Resolution Of The Board Of Directors Of The Sonoma County Water Agency, Determining That The Vortex Tube Rehabilitation Project Will Not Have A Significant Adverse Effect On The Environment, Adopting The Initial Study And Mitigated Negative Declaration For The Project, Adopting Mitigation Measures And The Mitigation Monitoring Reporting Program, Making Certain Related Findings, and Approving The Project. (First District)

Whereas, the Sonoma County Water Agency (Sonoma Water) proposes to repair the existing Vortex Tube, which is part of the Santa Rosa Creek Diversion Structure flood control facility, to provide reliable flood protection to the Santa Rosa area; and

Whereas, Sonoma Water, as Lead Agency under the California Environmental Quality Act (CEQA), prepared an Initial Study and Mitigated Negative Declaration of Environmental Impact (Initial Study) for the Vortex Tube Rehabilitation Project (Project), in accordance with CEQA, the State CEQA Guidelines, and the Sonoma Water's Compliance Procedures for of CEQA; and

Whereas, the Initial Study discloses potential environmental impacts of implementing the Project, identifies the means to avoid and minimize potential significant adverse impacts on the environment and concludes the Project would not have a significant adverse effect on the environment with mitigation incorporated.

Now, Therefore, Be It Resolved that this Board finds that the foregoing recitals are true and correct and further finds, declares, determines and orders as follows:

PROCEDURAL FINDINGS.

- 1. The Vortex Tube is part of the Santa Rosa Creek Diversion Structure flood control facility, located beneath Montgomery Drive, near Spring Lake and the City of Santa Rosa.
- 2. As described in the Initial Study Project Description, The purpose of the Project is to repair

Resolution #20-Date: Page 2

the existing Vortex Tube to provide reliable flood protection to the Santa Rosa area. The Vortex Tube has deteriorated from over a half-century of scour. The Project would restore the structural integrity of the Vortex Tube and facilitate future inspections and maintenance.

- 3. The Project would be implemented in two phases. The first phase consists of constructing a permanent bypass pipe to temporarily direct creek flows around the Vortex Tube. The second phase consists of repairing the damaged Vortex Tube. Under normal operating conditions, the bypass pipe ends would be closed. The bypass pipe would only be used during Vortex Tube repair work and to allow future inspections of the Vortex Tube and maintenance, if needed.
- 4. The Notice of Completion and Notice of Availability / Notice of Intent to Adopt Initial Study and Mitigated Negative Declaration were posted with the California Governor's Office of Planning and Research State Clearinghouse on August 28, 2020. The Notice of Availability and Initial Study were sent to responsible and trustee agencies and individuals. The Notice of Availability was sent to 114 individuals and nearby property owners. A legal notice was published in the Press Democrat on August 30, 2020. The Initial Study and Notice of Availability were also made available at Sonoma Water's administrative office and an electronic version of the document was made available on Sonoma Water's website.
- 5. The Initial Study was available for a 30-day public review period beginning on August 28, 2020. A single comment letter was received from California Department of Fish and Wildlife (Department) and is included in Appendix E of the Initial Study. Sonoma Water reviewed and prepared a response to comments, included in Appendix E of the Initial Study. Sonoma Water revised a mitigation measure in the Initial Study in response to the Department's comments.
- 6. On September 1, 2020, the Sonoma Water submitted a request for Sonoma County General Plan 2020 (General Plan) consistency review to the Sonoma County Permit & Resource Management Department (Permit Sonoma). As no response was provided by Permit Sonoma within the required 45-day response period, the Proposed Project is deemed to be consistent with the General Plan.

SUBSTANTIVE FINDINGS.

- 1. Sonoma Water, as Lead Agency, has prepared the Initial Study and Mitigated Negative Declaration of Environmental Impact in accordance with CEQA, State CEQA Guidelines, and the Sonoma Water's Compliance Procedures for CEQA.
- 2. The Board of Directors of Sonoma Water (Board) has reviewed and considered the environmental effects of the Project as disclosed in the Initial Study and Mitigated Negative Declaration, including public comments and Sonoma Water response to comments;
- 3. Less-than-Significant Impacts

Resolution #20-Date: Page 3

The Board finds that the Project described in the Initial Study has certain impacts that are less than significant, which are fully and accurately identified in the Initial Study's Chapter 3, Environmental Checklist.

4. Significant Impacts Reduced to a Less than Significant Level by Mitigation Measures
The Board finds that the Project would cause certain potentially significant adverse
environmental impacts, which are fully described in the Initial Study, Chapter 3.
Environmental Checklist. The Board further finds that changes or alterations have
been required in or incorporated into the Project that will mitigate those impacts to
less than significant levels as described in Chapter 3 of the Initial Study. A Mitigation
Monitoring and Reporting Program, as described in Appendix D of the Initial Study,
was prepared and is included as Exhibit A. Based on such findings, and the above
statement of facts, the Board hereby finds that the significant or potentially significant
adverse environmental effects posed by the Project have been eliminated or reduced
to a less than significant level.

5. <u>Mitigation and Monitoring Reporting Program</u>

A Mitigation and Monitoring Program, as described in Appendix D of the Initial Study, was prepared. The contents of this program are set forth in Exhibit A, attached hereto and incorporated herein by this reference. The Board finds that this mitigation monitoring and reporting program is designed to ensure compliance with the mitigation measures described in the Initial Study. It will be implemented in accordance with all applicable requirements of the CEQA Statute, the State CEQA Guidelines, and the Sonoma Water's Compliance Procedures for CEQA.

- 6. The Board finds that the Initial Study represents a good faith effort to achieve completeness and full environmental disclosure; and
- 7. The Board certifies that it has reviewed and considered the information in the Initial Study, and finds that there is no substantial evidence that the Project will have a significant effect on the environment with mitigation incorporated and that the Mitigated Negative Declaration reflects the independent judgment and analysis of the Board.

Be It Further Resolved that the Board of Directors of the Sonoma County Water Agency having received, reviewed, and considered the Initial Study and Mitigated Negative Declaration of Environmental Impact and other evidence in the administrative record, hereby finds, determines, and certifies as follows:

- 1. All of the above recitals are true and correct.
- 2. The Initial Study and Mitigated Negative Declaration of Environmental Impact for the Project is hereby adopted.
- 3. The Mitigation Monitoring and Reporting Program (Exhibit A) is hereby adopted and the Board authorizes and directs the General Manager or his assigns to take all

Resolution #20-
Date:
Page 4

appropriate steps in accordance with such program to ensure that the required mitigation measures are carried out.

- 4. The Project is hereby approved and the Sonoma Water's General Manager will file a Notice of Determination with the County Clerk in conformance with the provisions of CEQA, State CEQA Guidelines, and the Sonoma Water's Compliance Procedures for CEQA.
- 5. The Clerk of the Board is designated as the custodian of the documents and other materials that constitute the record of the proceedings upon which the Board's decisions herein are based. These documents may be found at the office of the Clerk of the Board, 575 Administration Drive, Room 100A, Santa Rosa, CA 95403.

Directors:

Rabbitt:	Zane:	Gore:	Hopkins:	Gorin:
Ayes:	Noes:		Absent:	Abstain:
			So Ordered	

Mitigation Monitoring and Reporting Program for the Vortex Tube Rehabilitation Project

The Sonoma County Water Agency (Sonoma Water) is the project proponent and lead agency in accordance with the California Environmental Quality Act (CEQA) for the Vortex Tube Rehabilitation Project (Project), which is a flood control structure repair project. Sonoma Water prepared an Initial Study and Mitigated Negative Declaration of Environmental Impact (IS/MND) for the Project. Mitigation measures were determined necessary to reduce potentially significant impacts to a less-than-significant level for several environmental factors, including air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, noise, transportation, and tribal cultural resources.

CEQA and the State CEQA Guidelines (Public Resources Code Section 21081.6 and State CEQA Guidelines Section 15097) require that a mitigation monitoring and reporting program (MMRP) be adopted upon certification of a mitigated negative declaration to ensure that the mitigation measures are implemented. This MMRP has been prepared to ensure compliance with CEQA and that all required mitigation measures are implemented and completed in a satisfactory manner before, during, and after project construction, operation, and maintenance, as applicable. The Project IS/MND was certified and MMRP adopted by Sonoma Water's Board of Directors on November 17, 2020. A record of the MMRP will be maintained at the administrative office of Sonoma Water, 404 Aviation Boulevard, Santa Rosa, CA, 95403.

The MMRP is organized in a table format that includes the following:

- Mitigation Measure, the verbatim text of the mitigation measure specified in the Project IS/MND.
- **Action**, the discrete action(s) to be implemented to ensure compliance with the mitigation measure.
- **Implementing Party**, the individual and/or entity responsible for implementing the mitigation measure.
- **Timing**, the time frame in which the mitigation will be implemented.
- **Responsible Party**, the individual or entity that will monitor the measure and ensure that it complies with this MMRP.
- Verification, date and signature by the Responsible Party confirming an action was completed (Technical Writing, Construction Inspection, Engineering, Operations and Maintenance [O&M], Environmental Resources [ER], or ER Project Manager [PM]).

Mitigation Monitoring and Reporting Program for the Vortex Tube Rehabilitation Project

	Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
Aiı	r Quality					
Ba So	tigation Measure AIR-1: Bay Area Air Quality Management District esic Construction Measures. noma Water will require contractors, through project contract ecifications, and maintenance staff to implement the following:	Include mitigation measure items 1-7 in the project contract	Technical Writing	Contractor agreement	Technical Writing	
2.	To reduce dust emissions, all exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day or as needed, as determined by Sonoma Water, based on conditions. All haul trucks transporting soil or other loose material off-site shall be covered.	Confirm that Items 1-7 are implemented by contractor.	Construction Inspection	During construction and maintenance	Construction Inspection	
	All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day or as needed. The use of dry power sweeping is prohibited.	Implement Items 1-7 during post-	O&M	During maintenance	O&M	
4. 5.	All vehicle speeds on unpaved roads shall be limited to 15 mph. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure, Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.	construction maintenance activities.	maintenance			
6.	All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.					
7.	Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Bay Area Air Quality Control District's phone number shall also be visible to ensure compliance with applicable regulations.					

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
Biological Resources					
 Mitigation Measure BIO-1: Federally Listed Steelhead Protection Measures The project may impact the federally listed California Central Coast steelhead and require compliance with the federal Endangered Species Act. The project would impact wetlands and waters of the United States under the jurisdiction of the U.S. Army Corps of Engineers (USACE) pursuant to Section 404 of the Clean Water Act. Sonoma Water, through the USACE, shall be required to consult with the National Marine Fisheries Service (NMFS) regarding steelhead under Section 7 of the federal Endangered Species Act. The Section 7 consultation process will identify the necessary mitigation to compensate for unavoidable impacts to California Central Coast steelhead. All Proposed Project activities shall comply with the terms and conditions of the Project's Biological Opinion or other authorizing document issued by the NMFS. This measure applies to all aquatic habitat disturbing activities, species capture, and relocation. Permit special conditions for the Proposed Project will be overseen by a qualified biologist (see item 3 below). If approved by resource agencies, California Central Coast steelhead will be relocated outside of the construction area as described in Mitigation Measure BIO-2. The qualified biologist or designated trained monitor will notify the onsite construction inspector to stop work if a protected species is encountered until such a time as the animal may be moved to an area outside of the project area. A qualified biologist (including those specializing in botany, wildlife, and fisheries) is determined by a combination of academic training and professional experience in biological sciences and related resource management activities. Sonoma Water may also utilize appropriately experienced and/or trained environmental staff. Resumes will be submitted to California Department of Fish and Wildlife, U.S. Fish and Wildlife Service and/or NMFS, as appropriate, for approval prior to comme	Item 1 - obtain applicable permits Items 2 and 3 - confirm permit special conditions are implemented	PM ER and Construction Inspection	Prior to construction and maintenance During construction and maintenance	PM	

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
Mitigation Measure BIO-2: Special-Status Aquatic Species Relocation Out of Construction Areas.					
To mitigate the potential to impact special-status aquatic species within the project area, Sonoma Water shall:					
1. Prior to construction or maintenance activities beginning at the project area, aquatic species will be excluded from the work areas by blocking the creek with fine-meshed net or screens. The bottom of the screens will be completely secured to the channel bed. Screens will be checked periodically and cleaned of debris to permit free flow of water.	Items 1-5 - exclude and relocate aquatic species from	ER	Prior to construction and maintenance	PM	
2. Fish, amphibian, and reptile species found within the construction area will be relocated to suitable habitat outside the construction area. The most efficient means for capturing fish and aquatic wildlife will be determined and implemented. Complex stream habitat generally requires the use of electrofishing equipment, whereas in deep areas, fish may be captured by seining or dipnetting.	work areas				
3. Prior to relocating aquatic species out of construction or maintenance areas, Sonoma Water shall prepare a Special-Status Species Relocation Plan to be reviewed and accepted in writing by California Department of Fish and Wildlife. The relocation plan at a minimum shall include the following: a. qualifications of individuals conducting relocation activities,					
including documented experience with successful relocations for the relevant species and all required authorizations;					
 b. life stages of the species that would be relocated, and life stages at which relocation may not be feasible, for example, for eggs and associated avoidance measures; 					
 survey methods for identifying special-status species in the project area; 					
 d. capture and relocation methods including following the Restraint and Handling of Live Amphibians Standard Operation Procedures, prepared by USGS, dated February 16, 2001; 					
e. identification and description of the relocation area;					

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
f. description of potential impacts from the proposed electrofishing to non-fish species, and methods for minimizing such impacts; g. monitoring of relocated animals; and h. method for ensuring relocated animals do not return to the Project area. 4. All fish captured by electrofishing will be allowed to recover in an aerated bucket before being returned to the stream. 5. Prior to capturing fish, amphibian, and reptile species, the most appropriate release location(s) will be identified and used. The following criteria will be considered when selecting release site(s): a. proximity to the work area; b. similar water temperature as capture location; c. ample habitat availability prior to release of captured aquatic species; and d. low likelihood of animals reentering work site.					
 Mitigation Measure BIO-3: Worker Environmental Awareness Training Sonoma Water will require contractors, through project contract specifications, and maintenance staff to participate in the following: 1. Prior to beginning construction activities, all personnel involved in the activities will participate in an educational training session conducted by a qualified biologist. A qualified biologist (including those specializing in botany, wildlife, and fisheries) is determined by a combination of academic training and professional experience in biological sciences and related resource management activities. Sonoma Water may also utilize appropriately experienced and/or 	Include mitigation measure items 1-2 in the project contract specifications	Technical Writing Construction Inspection	Contractor agreement Prior to construction	Technical Writing Construction Inspection	

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
trained environmental staff. Resumes will be submitted to California Department of Fish and Wildlife, U.S. Fish and Wildlife Service and/or National Marine Fisheries Service, as appropriate, for approval prior to commencement of biological surveys. This training will include instruction on how to identify bird nests, recognize special status species and sensitive habitats, and the appropriate protocol if any special species or nests are found during project implementation. 2. Personnel who miss the first training session must participate in a make-up session before conducting construction activities.	Schedule time for training with contractor Schedule time for training with maintenance staff Items 1 and 2 - conduct training	O&M ER	and maintenance Prior to maintenance Prior to construction and maintenance	O&M PM	
 Mitigation Measure BIO-4: Nesting Bird Protection Measures If construction or maintenance activities must be scheduled during the nesting season (February 15 through August 15 for most birds), a qualified biologist, familiar with the species and habitats in the area, will conduct pre-construction surveys for raptors and nesting birds within suitable habitat within 500 feet of construction and maintenance activities. The surveys will be conducted within one week before initiation of construction or maintenance activities. If no active nests are detected during surveys, activities may proceed. Vegetation removal activities will be conducted under the guidance of a qualified biologist or designated trained monitor. A qualified biologist (including those specializing in botany, wildlife, and fisheries) is determined by a combination of academic training and professional experience in biological sciences and related resource management activities. Sonoma Water may also utilize appropriately experienced and/or trained environmental staff. Resumes will be submitted to California 	Item 1 - schedule time for nest survey with ER Item 1- schedule time for nest survey with ER	Construction Inspection	1 week prior to construction and maintenance (February 15 through August 15)	Construction Inspection	
Department of Fish and Wildlife (CDFW), U.S. Fish and Wildlife Service and/or National Marine Fisheries Service, as appropriate, for approval prior to commencement of biological surveys.	Item 1 - conduct	ER	1 week prior to construction	PM	

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
2. If active nests are identified in the project area, non-disturbance buffers shall be established at a distance of 500 feet for raptors and 50 feet for all other bird species. Buffer distance may be adjusted with CDFW approval. If active nests are found within 500 feet of a work area, a qualified biologist shall be on site as necessary to monitor the nests for signs of nest disturbance. If it is determined that construction or maintenance activity is resulting in nest disturbance, work shall cease immediately and CDFW shall be contacted. Buffers will remain in place until a qualified biologist determines that the young have successfully fledged, or nests have been otherwise abandoned.	nesting bird survey Item 2 - establish nest buffers	ER	and maintenance During construction and maintenance	РМ	
 Mitigation Measure BIO-5: Avoid, Minimize, or Compensate for Impacts to Jurisdictional Wetlands and Other Protected Waters. 1. Construction activities resulting in the introduction of fill or other disturbance to jurisdictional wetlands and other protected waters may require a permit from the US Army Corps of Engineers (USACE) pursuant to Section 404 of the Clean Water Act (CWA), a Water Quality Certification from North Coast Regional Water Quality Control Board (NCRWQCB) pursuant to Section 401 of the CWA, and California Department of Fish and Wildlife (CDFW) has jurisdiction over streams and may require a Streambed Alteration Agreement (SAA) under Section 1602 of the California Fish and Game Code. Sonoma Water shall apply for permits from the appropriate regulatory agencies and comply with terms, which would likely include, but not necessarily limited to, the measures listed below: 	Item 1 - obtain permits	PM	Prior to construction and maintenance	PM	
 a. Delineate all jurisdictional wetlands and other protected waters in the Proposed Project area according to USACE protocol. b. Where soil removal is necessary in a wetland or drainage, the top 12 inches of soil will be stockpiled to maintain an onsite seed source. After excavation is complete, the stockpiled material will be returned and recontoured to the original topography. Supplemental native wetland seed mix will be applied, as needed. 	Item 1 - implement permit special conditions	ER and Construction Inspection	During construction and maintenance	PM	

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
c. To account for temporal and permanent disturbance to wetland function, wetland habitat enhancement will be conducted on- or off-site. Enhancement will include one or more of the following: increasing native plant species abundance within the area impacted, managing invasive plants, installing native wetland vegetation on or offsite, and/or acquiring credit from an approved wetland mitigation bank. The appropriate mitigation ratio shall be negotiated with the USACE and NCRWQCB and shall be no less than 1:1. The enhancement effort shall require implementation of a five-year monitoring program with applicable performance standards negotiated with the resource agencies, which will include criteria such as establishing 80 percent survival rate of restoration plantings, increase in vegetative cover by native plant species, and a self-sustaining habitat condition.					
Cultural Resources					
 Mitigation Measure CUL-1: Inadvertent Discovery of Historical and Archaeological Resources and Worker Awareness Training. 1. The contractor shall comply with Sonoma Water's Standard Contract Documents regarding the discovery of cultural resources, including Native American cultural resources and items of historical and archaeological interest. The Sonoma Water Construction Inspector and construction personnel will be notified of the possibility of encountering cultural resources during project construction. 	Include mitigation measure items 1-2 in the project contract specifications	Technical Writing	Contractor agreement Prior to	Technical Writing Construction	
a. Prior to initiation of ground-disturbing activities, Sonoma Water shall arrange for construction personnel to receive training about the kinds of cultural materials that could be present at the project sites and protocols to be followed should any such materials be uncovered during construction. An archaeologist who meets the U.S. Secretary of Interior's professional standards (48 CFR Parts 44738-44739 and Appendix A to 36 CFR 61) shall provide appropriate archaeological training, including the purpose of the training to increase awareness and knowledge of tribal cultural resources and appropriate protocols in the event of an inadvertent discovery. The Tribal Monitor shall provide appropriate tribal cultural resources	Provide work schedule to PM Item 1a - schedule archaeologist and tribal monitor for worker training	Construction Inspection	construction and maintenance Prior to construction and maintenance	Inspection PM	

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
training as determined by the Tribe. Training may be required during different phases of construction to educate new construction personnel.					
 The project specifications will provide that if discovery is made of items of historical, archeological, or cultural interest, the contractor will immediately cease all work activities in the area of discovery. Historical, archaeological, and cultural indicators may include, but are not limited to, dwelling sites, locally darkened soils, stone implements or other artifacts, fragments of glass or ceramics, animal bones, and human bones. After cessation of excavation, the contractor will immediately contact Sonoma Water's Construction Inspector. The contractor will not resume work until authorization is received from the Construction Inspector. a. In the event of unanticipated discovery of archaeological 	Item 2 - inadvertent discovery of archaeological materials	Construction Inspection	During construction and maintenance	Construction Inspection	
materials occurs during construction, Sonoma Water shall retain the services of a qualified professional archaeologist who meets the U.S. Secretary of Interior's professional standards (48 CFR Parts 44738-44739 and Appendix A to 36 CFR 61) to evaluate the significance of the items prior to resuming any activities that could impact the site.					
b. In the case of an inadvertent archaeological discovery, if it is determined that the find is potentially eligible for listing in the California Register of Historical Resources and/or National Register of Historic Places, and the site cannot be avoided, additional mitigation measures shall be implemented. Mitigation measures may include (but are not limited to): avoidance; capping the site; deeding the site into a permanent conservation easement; or data recovery excavation. Mitigation measures for historical resources shall be developed in consultation with responsible agencies, and the culturally affiliated Native American tribe. If data recovery excavation is necessary, Sonoma Water shall provide an Archaeological Resource Management and Data Recovery Plan, prepared by a qualified archaeologist, outlining recovery of the resource, analysis, and reporting of the find. The Archaeological Resource Management and Data Recovery Plan shall be					

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
approved by Sonoma Water and affected Native American tribe. Implementation of the Archaeological Resource Management and Data Recovery Plan shall be conducted prior to work being resumed.					
Mitigation Measure CUL-2: Inadvertent Discovery of Human Remains.					

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
1. The project specifications will require the contractor to comply with Public Resources Code 5097.98 and Health and Human Safety Code 7050.5, as they pertain to the discovery of human remains. If human remains are encountered, the contractor shall halt work within 50 feet of the find, and contact Sonoma Water's Construction Inspector and the Sonoma County Coroner in accordance with Public Resources Code Section 5097.98 and Health and Safety Code Section 7050.5. If the coroner determines the remains are Native American, the coroner	Include mitigation measure item 1 in the project contract specifications	Technical Writing	Contractor agreement	Technical Writing	
will contact the Native American Heritage Commission. As provided in Public Resources Code Section 5097.98, the Native American Heritage Commission will identify the person or persons believed to be most likely descended from the deceased Native American. The Most Likely Descendent (MLD) makes recommendations for means of treating the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98. Work shall cease in the immediate area until the recommendations of the appropriate MLD are concluded.	Item 1 - Discovery of human remains	Construction Inspection	During construction and maintenance	Construction Inspection	
Geology and Soils Mitigation Measure GEO-1: Implementation of Revegetation Plan.	<u> </u>	<u> </u>			
miligation measure GEO-1. Implementation of Revegetation Plan.					

1. Sonoma Water will conduct site revegetation that will include seeding with a mix of native grass, sedge and/or forb species after activities are complete during the fall and prior to the first significant rainfall (significant rainfall is defined as a forecast of 50% or greater chance of precipitation). a. Seed mix will be applied to disturbed work areas with exposed soil above the creek's shoreline. b. Biodegradable erosion control fabric, hydromulch, or other mechanism will be applied as appropriate to provide protection to seeds, hold them in place, and help retain moisture. Work areas that are concrete-lined or have a substrate of gravel and cobble deposited by creek flows will not be seeded.	(Signature, Date of Compliance)	Responsible Party	Timing	Implementing Party	Action	Mitigation Measure
b. Biodegradable erosion control fabric, hydromulch, or other mechanism will be applied as appropriate to provide protection to seeds, hold them in place, and help retain moisture. Work areas that are concrete-lined or have a substrate of gravel and		PM		ER		with a mix of native grass, sedge and/or forb species after activities are complete during the fall and prior to the first significant rainfall (significant rainfall is defined as a forecast of 50% or greater chance of
mechanism will be applied as appropriate to provide protection to seeds, hold them in place, and help retain moisture. Work areas that are concrete-lined or have a substrate of gravel and						
i. If erosion control fabric is used, fabric will consist of natural fibers that will biodegrade over time. No plastic or other non-porous material will be used as part of a permanent erosion control approach. Erosion control fabric will be anchored in place. Anchors can include U-shaped wire staples, metal geotextiles stake pins or wooden stakes. The manufacturer's installation recommendations will be followed. 2. Sonoma Water will inspect seeded areas after the first winter rain events. If evidence of erosion is detected, corrective measures would be implemented including additional seed application, installation of native nursery stock plantings, and/or installation of erosion control fabric. 3. Sonoma Water will prepare a monitoring report describing the success of revegetation and any corrective measures implemented annually for five years. ER Annually (5 yrs)		PM		ER	_	mechanism will be applied as appropriate to provide protection to seeds, hold them in place, and help retain moisture. Work areas that are concrete-lined or have a substrate of gravel and cobble deposited by creek flows will not be seeded. i. If erosion control fabric is used, fabric will consist of natural fibers that will biodegrade over time. No plastic or other non-porous material will be used as part of a permanent erosion control approach. Erosion control fabric will be anchored in place. Anchors can include U-shaped wire staples, metal geotextiles stake pins or wooden stakes. The manufacturer's installation recommendations will be followed. Sonoma Water will inspect seeded areas after the first winter rain events. If evidence of erosion is detected, corrective measures would be implemented including additional seed application, installation of native nursery stock plantings, and/or installation of erosion control fabric. Sonoma Water will prepare a monitoring report describing the success of revegetation and any corrective measures implemented annually for
Hazards and Hazardous Materials						azards and Hazardous Materials
Mitigation Measure HAZ-1: Spill Prevention and Response						litigation Measure HAZ-1: Spill Prevention and Response

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
Sonoma Water will require the contractors, through project specifications, to prepare a Storm Water Pollution Prevent Plan (SWPPP). The SWPPP shall comply with Caltrans Storm Water Pollution Prevention Plan and Water Pollution Control Program Preparation Manual and the Caltrans Construction Site Best Management Practices Manual. Sonoma Water will require contractors, through project contract specifications, and maintenance staff to follow the SWPP during all project activities as well as implement the following measures:	Include mitigation measure items 1-7 in the project contract specifications	Technical Writing	Contractor agreement	Technical Writing	
All field personnel shall be appropriately trained in spill prevention, hazardous material control, and cleanup of accidental spills.	Items 1-7	Construction	During	Construction	
 Equipment and materials for cleanup of spills will be available on site and spills and leaks will be cleaned up immediately and disposed of in accordance with local, state, and federal regulations. 	spill prevention	Inspection	construction and maintenance	Inspection	
3. Spill prevention kits shall always be in close proximity when using hazardous materials (e.g., crew trucks and other logical locations). Spill clean-up materials will be stockpiled where they are readily accessible. All field personnel shall be advised of these locations and trained in their appropriate use.					
 During construction and maintenance activities, Sonoma Water staff and contractor(s) will routinely inspect the work site to verify that items 1-4 above are properly implemented and maintained. 					
5. Absorbent materials will be used on small spills located on impervious surface rather than hosing down the spill; wash waters shall not discharge to the storm drainage system or surface waters. For small spills on pervious surfaces such as soils, wet materials will be excavated and properly disposed rather than burying it. The absorbent materials will be collected and disposed of properly and promptly.					
6. Vehicle and equipment maintenance activities will be conducted off-site or in a designated, protected area away from the creek channel equipped with secondary containment and designed to avoid a direct connection to underlying soil, surface water, or the storm drainage system. For stationary equipment that must be fueled on-site, secondary containment, such as a drain pan or drop cloth, shall be					

	Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
	provided in such a manner to prevent accidental spill of fuels to underlying soil, surface water, or the storm drainage system.					
7.	All vehicles and equipment will be kept clean. Excessive build-up of oil or grease will be avoided. Incoming vehicles and equipment will be checked for leaking oil and fluids (including delivery trucks, and employee and subcontractor vehicles). Leaking vehicles or equipment will not be allowed on-site.					
Ну	drology and Water Quality					
Mi	tigation Measure HWQ-1: Staging and Stockpiling of Materials					
	noma Water will require contractors, through project contract ecifications, and maintenance staff to implement the following:	Include mitigation measure items	Technical Writing	Contractor agreement	Technical Writing	
1.	Staging will occur on work areas, access roads, surface streets, designated stockpile areas, or other disturbed areas that are already compacted and only support ruderal vegetation. Similarly, all equipment and materials will be contained within the existing service roads, paved roads, or other pre-determined staging and stockpile areas.	1-3 in the project contract specifications				
2.	All project-related items, including equipment, stockpiled material, temporary erosion control treatments, and trash, will be removed within 72 hours of project completion.	Items 1-3 - staging and stockpiling	Construction Inspection	During construction and maintenance	Construction Inspection	
3.	As necessary, to prevent sediment-laden water from being released back into the channel during transport of spoils to disposal locations, truck beds will be lined with an impervious material (e.g., plastic), or the tailgate blocked with wattles, hay bales, or other appropriate filtration material. Trucks may drain excess water by slightly tilting the loads and allowing the water to drain out through the applied filter, only within the active work area where the sediment is being loaded into the trucks.	Items 1-3 - staging and stockpiling	O&M	During maintenance	O&M	
4.	No runoff from the staging areas will be allowed to enter waters of the State, including the creek channel or storm drains, without being subjected to adequate filtration (e.g., vegetated buffer, hay wattles or bales, silt screens). The discharge of decant water from any on-site temporary sediment stockpile or storage areas, to waters of the State,					

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)	
including surface waters or surface water drainage courses, outside of the active project site, is prohibited.						
Noise						
 Mitigation Measure NOI-1: Avoid and Minimize Ambient Noise during Construction and Maintenance Activities Sonoma Water will require contractors, through project contract specifications, and maintenance staff to implement in the following: 1. Work will be limited to the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No construction shall be permitted on Sunday or on holidays. 2. Power equipment (vehicles, heavy equipment, and hand equipment such as chainsaws) will be equipped with manufacturer's sound-control devices, or alternate sound control that is no less effective than those provided as original equipment. Equipment will be operated and 	Include mitigation measure items 1-2 in the project contract specifications Items 1 and 2 - noise abatement	Technical Writing Construction Inspection	Contractor agreement During construction and maintenance	Technical Writing Construction Inspection		
maintained to meet applicable standards for construction noise generation. No equipment will be operated with an unmuffled exhaust. Transportation	Items 1 and 2 - noise abatement	O&M	During maintenance	O&M		
Mitigation Measure TRA-1: Traffic Control Measures	Ī					
Sonoma Water will require contractors, through project contract specifications, and maintenance staff to implement the following: 1. Construction and maintenance activities will be staged and conducted	Include mitigation measure items 1-8 in the	Technical Writing	Contractor agreement	Technical Writing		
in a manner that maintains two-way traffic flow on public roadways in the vicinity of the work site to the maximum extent practicable. If temporary lane closures are necessary, they will be coordinated with the City of Santa Rosa at least seven days prior to commencement of closure and scheduled to occur outside of peak traffic hours (7:00 – 10:00 a.m. and 3:00 – 6:00 p.m.). Work will be coordinated so that	project contract specifications Items 1-8 -	Construction Inspection	During construction	Construction Inspection		

	Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
	emergency vehicles and personnel shall be provided immediate access at all times.	traffic management		and maintenance		
2.	Traffic control and safety precautions shall conform to the "California Manual on Uniform Traffic Control Devices" (latest edition), and applicable provisions of the City of Santa Rosa encroachment permits.	Items 1-8 - traffic	O&M	During maintenance	O&M	
3.	Traffic control and safety precautions shall provide safe passage for vehicular and pedestrian traffic through the work at all times.	management				
4.	Subject to encroachment permit requirements, traffic on two-lane streets may be reduced to one lane provided that restriction of traffic flow, flaggers, cones, signs, and barricades are furnished as required by Sonoma Water. Traffic shall be permitted equal flow time in each direction.					
5.	At least seven days prior to commencement of work, notify residents along the Proposed Project roadways, in writing, that traffic flows will be subject to detours and/or delays, and that access to individual driveways may be disrupted during working hours. Notice will also be provided in writing to the property owner.					
6.	At least seven days prior to commencement of work, post notifications in the Proposed Project area to inform drivers of impending construction work and likely delays and detours.					
7.	Access for driveways and private roads will be maintained. If brief periods of construction would temporarily block access, property occupants would be notified, in writing, at least three days in advance of blocking property occupants' driveways. Notice will also be provided in writing to the property owner.					

Mitigation Measure	Action	Implementing Party	Timing	Responsible Party	Verification (Signature, Date of Compliance)
Adequate off-street parking will be provided or designated public parking areas will be used for workers' personal vehicles and construction-related vehicles not in use through the maintenance period.					
Tribal Cultural Resources					
 Mitigation Measure TCR-3: Tribal Monitor and Archaeologist During Ground-disturbing Activities 1. During ground-disturbing activities, a qualified archaeologist and representative from a culturally affiliated tribe shall be present to monitor ground-disturbing activities. 	Include mitigation measure item 1 in the project contract specifications	Technical Writing	Contractor agreement	Technical Writing	
	Provide work schedule to PM	Construction Inspection	Prior and during construction and maintenance	Construction Inspection	
	Arrange for archaeologist and tribal monitor	PM	Prior to construction and maintenance	PM	