

# ATTACHMENT 2

## MITIGATION AND MONITORING PROGRAM Fulton Road Widening Improvement Project

| Mitigation Measures and Environmental Protection Actions (EPAs)  | Implementation Procedure   | Monitoring Responsibility | Monitoring / Reporting Action & Schedule   | Monitoring Compliance Record (Name/Date) |
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| <b>EPA-1: Geotechnical Design</b><br>As part of the project design process, a California-registered Geotechnical Engineer was engaged to conduct a design-level geotechnical study for the project. The project will be designed and constructed in compliance with the site-specific recommendations made in the project's geotechnical report. This will include design in accordance with recommendations for site preparation, grading, stripping, excavations, fill quality and placement, pavement sections, asphalt overlay, compactions, moisture barriers, and other factors. The geotechnical recommendations will be incorporated into the final plans and specifications for the project, and will be implemented during construction.   | Incorporate recommendations into final plans and specifications. | City of Santa Rosa        | Verify all geotechnical study design recommendations are incorporated into 90% plan set. |  |
| <b>EPA-2: Implement Air Quality Control Measures during Construction</b><br>To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the following Bay Area Air Quality Management District (BAAQMD) recommended Basic Construction Measures will be included in construction contract specifications and required during implementation of the project: <ul style="list-style-type: none"> <li>All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day;</li> <li>All haul trucks transporting soil, sand, or other loose material off-site shall be covered or shall have at least two feet of freeboard;</li> <li>All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping shall be prohibited;</li> <li>All vehicle speeds on unpaved areas shall be limited to 15 miles per hour;</li> <li>All paving shall be completed as soon as possible after trenching work is finished;</li> <li>Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;</li> <li>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;</li> <li>A publicly visible sign shall be posted with the telephone number and person to contact at the City regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.</li> </ul> | Incorporate into final plans and specifications.                 | City of Santa Rosa        | Verify in 90% specifications.<br>Check daily jobsite compliance as necessary.            |  |
| <b>EPA-3: Implement Climate Action Plan Measures</b>   | Incorporate into final plans and specifications.                 | City of Santa Rosa        | Verify in 90% specifications.  |  |

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| <p>To ensure that the project is consistent with the Santa Rosa Climate Action Plan, the following measures shall be incorporated into the project design and/or be implemented during construction.</p> <ul style="list-style-type: none"> <li>• Cool paving materials shall be used for new sidewalks and crosswalks associated with the project.</li> <li>• Construction vehicle idling times shall be minimized by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes or less (as required by the California airborne toxics control measure Title 13, Section 2485 of CCR). Clear signage shall be provided to remind contractors of idling restrictions.</li> <li>• Construction equipment shall be maintained in accordance with manufacturer's specifications.</li> <li>• The contractor shall be required to implement one of the following measures, as feasible and appropriate to the construction project: <ul style="list-style-type: none"> <li>○ Substitute electrified equipment for diesel- and gasoline-powered equipment where practical.</li> <li>○ Use alternative fuels for construction equipment onsite, where feasible, such as compressed natural gas (CNG), liquefied natural gas (LNG), propane, or biodiesel.</li> <li>○ Avoid the use of on-site generators by connecting to grid electricity or utilizing solar-powered equipment.</li> </ul> </li> </ul> |  |                           | Check daily jobsite compliance as necessary.   |  |
| <p><b>AES-1: Minimize Temporary Visual Impacts</b><br/> The City shall avoid or substantially lessen impacts by reducing construction disturbance. Measures shall include:</p> <ul style="list-style-type: none"> <li>• The size of construction zones and staging areas shall be the minimum operable size. The location of such zones shall be adjusted to minimize the visual impacts.</li> <li>• To the extent feasible, alignments and locations of facilities shall be adjusted to avoid visually sensitive features and conditions that would result in major landform alteration or mature landscape removal.</li> <li>• During construction, temporary fencing with green fabric screen or similar screening shall be placed around primary staging areas to limit the prominence of views of construction equipment and associated construction materials.</li> <li>• The City shall restore or revegetate staging areas disturbed or scarred by construction activities, including restoring pre-project topographic features and reseeding with species comparable to those removed or disturbed during construction.</li> </ul>   | Incorporate into final plans and specifications. | City of Santa Rosa        | Verify in 90% specifications.<br>Check daily jobsite compliance as necessary.<br>Verify success of replacement vegetation annually for three years after project completion. |  |
| <p><b>AES-2: Avoid Glare and Light Trespass from Nighttime Construction Lighting</b><br/> The City shall require the contractor to prepare and implement a Nighttime Construction Lighting Plan for any nighttime work so as to avoid glare that would be a hazard to vehicles and to avoid light trespass onto adjacent residential uses. The lighting plan shall be developed to guide the use of lighting during project construction in such a way as to</p>   | Incorporate into final plans and specifications. | City of Santa Rosa        | Verify in 90% specifications.<br>Verify compliance with Nighttime Construction Lighting Plan prior to  |  |

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| effectively light the work area while limiting light spill onto adjoining property. The Plan shall adequately describe the work including, but not be limited to, the layout of lighting equipment necessary for all work to be completed at night and descriptions of hardware, including hoods, louvers, shields or other means to be used to control glare and light trespass onto adjoining property. Lighting systems with flood, spot, or stadium type luminaires shall be aimed downward at the work.  | Prepare Nighttime Construction Lighting Plan  |                           | any work that requires lighting.   |  |
| <b>AES-3: Minimize Glare from LED Street Lights</b><br>The City shall minimize glare from LED street light designs along the roadway. This may include, but not necessarily be limited to, the following: <ul style="list-style-type: none"> <li>Control blue-rich lighting by using the lowest emission of blue light possible to reduce glare, with a color temperature of no greater than 3000 Kelvin (K).</li> <li>Utilization of shielding to minimize glare;</li> <li>Utilization of LED lighting with the ability to be dimmed for off-peak time periods.</li> </ul>   | Incorporate into final plans and specifications.  | City of Santa Rosa        | Verify in 90% specifications.  |  |
| <b>BIO-1: Avoid Loss of Sensitive Plant Species</b><br>The City shall retain a qualified biologist to complete focused surveys for Sonoma sunshine, Burke's goldfields, and Sebastopol meadowfoam in accordance with USFWS protocols developed for the Santa Rosa Plain. This includes two years of focused spring plant surveys in March, April, and May.<br>In accordance with the established guidelines and procedures for mitigating impacts to the three listed vernal pool plants and their habitat, if no listed plants are found during plant surveys then the mitigation ratio shall be 1.5:1 for loss of potential habitat (i.e., seasonal wetland). If listed species are found within the project area and will be impacted, the mitigation ratio shall be 3:1. The City shall purchase credits in an approved mitigation bank within the Santa Rosa Plain.  | Conduct floristic surveys for Santa Rosa Plain botanical species.<br>Purchase necessary credits dependent on results of surveys.  | City of Santa Rosa        | Verify surveys are conducted according to USFWS protocols.<br>Calculate and purchase credits prior to construction in areas with potential habitat.  |  |
| <b>BIO-2: Protect California Tiger Salamander</b><br>Mitigation for impacts to California Tiger Salamander (CTS) habitat shall be as stipulated in the Santa Rosa Plain Conservation Strategy (USFWS 2005) or any subsequent guidance adopted by USFWS. To prevent loss of CTS habitat within the Santa Rosa Plain, the (United States Fish and Wildlife Service) USFWS and California Department of Fish and Wildlife (CDFW) require that mitigation lands be purchased for the acreage that is being impacted, or that land be conserved in accordance with the USFWS Santa Rosa Plain Conservation Strategy.<br>Prior to project construction, a qualified biologist shall quantify and map the acreage of CTS habitat that the project would impact. Because the project is located more than 2,200 feet but within 1.3 miles of a known breeding site, the City shall compensate for loss of CTS habitat by purchasing mitigation credits at a ratio of 1:1 or as required by USFWS and CDFW. The mitigation shall be purchased from a mitigation bank that is within the Critical | Quantify and map the acreage of CTS habitat that the project would impact.<br>Purchase mitigation credits prior to construction, or conserve land in accordance with SRP Conservation Strategy.<br>Incorporate minimization | City of Santa Rosa        | Calculate and purchase credits prior to construction in areas with potential habitat.<br>Verify minimization measures in 90% specifications.<br>Conduct surveys / assessments as noted.<br>Verify success of replacement vegetation annually for |  |

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| <p>Habitat for the species. Alternatively, the City may conserve land in accordance with the USFWS Santa Rosa Plain Conservation Strategy.</p> <p>Initial ground disturbing construction activities in habitat shall be limited to the dry season (June through October) when salamanders are not moving between terrestrial habitat and aquatic breeding habitat.</p> <p>Minimization measures contained in Section 5.2 (Minimization Measures) of the Santa Rosa Plain Conservation Strategy (USFWS 2005) or any subsequent guidance adopted by the USFWS shall be implemented during work within areas where California tiger salamanders may occur. These include:</p> <ul style="list-style-type: none"> <li>• A USFWS-approved biological monitor will be on site each day during initial site grading.</li> <li>• The biological monitor will conduct a training session for all construction workers before work begins on the project.</li> <li>• Before the start of work each morning, the biological monitor will check for CTS under any equipment such as vehicles and stored pipes. The biological monitor will check all excavated steep-walled holes or trenches greater than one foot deep for any CTS. Any CTS found will be removed by the biological monitor and translocated under approval by the USFWS.</li> <li>• An erosion and sediment control plan will be implemented to prevent impacts of wetland restoration and construction on habitat outside the work areas.</li> <li>• Access routes and number and size of staging and work areas will be limited to the minimum necessary to achieve the project goals. Routes and boundaries of the roadwork will be clearly marked prior to initiating construction/grading.</li> <li>• All foods and food-related trash items will be enclosed in sealed trash containers at the end of each day, and removed completely from the site once every three days.</li> <li>• No pets will be allowed anywhere in the project site during construction.</li> <li>• A speed limit of 15 mph on dirt roads will be maintained, if applicable.</li> <li>• All equipment will be maintained such that there will be no leaks of automotive fluids such as gasoline, oils, or solvents.</li> <li>• Hazardous materials such as fuels, oils, solvents, etc., will be stored in sealable containers in a designated location that is at least 200 feet from aquatic habitats. All fueling and maintenance of vehicles and other equipment and staging areas will occur at least 200 feet from any aquatic habitat.</li> <li>• Grading and clearing will typically be conducted between April 15 and October 15, of any given year, depending on the level of rainfall and/or site conditions.</li> <li>• Project areas temporarily disturbed by construction activities will be revegetated.</li> <li>• If CTS are found, the City shall coordinate with the USFWS and CDFW to prevent take of individuals and mitigate for loss of habitat.</li> </ul> | <p>measures and recommendations into specifications.</p> <p>Retain a qualified biological monitor for the duration of project construction.</p> <p>Develop an erosion and sediment control plan as noted.</p> |                           | <p>three years after project completion.</p> |  |

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| <p><b>BIO-3: Protect Western Pond Turtle</b></p> <p>Where work occurs within a creek, or where construction activities are located within 250 feet of a water body, the City shall ensure that preconstruction surveys for the western pond turtle are conducted by a qualified biologist. If western pond turtles are found during preconstruction surveys, CDFW shall be notified and individuals shall be captured by a qualified biologist and relocated to suitable areas. If preconstruction surveys identify active nests, a qualified biologist shall establish a no-disturbance buffer zone around the nest using temporary orange exclusion fencing. The radius of the buffer zone and the duration of the exclusion shall be determined in consultation with CDFW. The buffer zone and fencing shall remain in place until the young have left the nest, as determined by the biologist.</p>   | <p>Conduct preconstruction surveys.</p> <p>Implement protection measures as necessary.</p>   | <p>City of Santa Rosa</p> | <p>Verify surveys are conducted prior to construction.</p> <p>Verify that turtle relocation and exclusion fencing requirements are in 90% specifications.</p>                             |  |
| <p><b>BIO-4: Prevent Disturbance to Nesting Birds</b></p> <p>The City shall implement the following measures to prevent impacts to nesting birds:</p> <ul style="list-style-type: none"> <li>Grading or removal of any vegetation shall be conducted outside the nesting season, which occurs between approximately February 1 and August 31. (No survey is required for work conducted outside this period).</li> <li>If grading or vegetation removal between August 31 and February 1 is infeasible and work must occur within the breeding season, a pre-construction nesting bird (both passerine and raptor) survey of the landscaped areas and trees shall be performed by a qualified biologist within 7 days of ground breaking. If no nesting birds are observed, no further action is required and work shall occur within one week of the survey to prevent "take" of individual birds that could begin nesting after the survey.</li> <li>If bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the nest tree(s) until the young have fledged, as determined by a qualified biologist.</li> <li>The radius of the required buffer zone can vary depending on the species, (i.e., 75 to 100 feet for passerines and 200 to 300 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with California Department of Fish and Wildlife (CDFW).</li> <li>To delineate the buffer zone around a nesting tree, orange construction fencing shall be placed at the specified radius from the base of the tree within which no machinery or workers shall intrude.</li> <li>After the fencing is in place there will be no restrictions on grading or construction activities outside the prescribed buffer zones.</li> </ul> | <p>Incorporate recommendations into specifications.</p> <p>Conduct preconstruction nesting surveys if grading or vegetation removal occurs during nesting season.</p> <p>Implement recommended protection measures as necessary.</p> | <p>City of Santa Rosa</p> | <p>Verify that surveys are conducted prior to grading or disturbing during nesting season.</p> <p>Verify that disturbance buffers and fencing requirements are in 90% specifications.</p> |  |
| <p><b>BIO-5: Prevent Disturbance of Roosting Bats</b></p> <p>Prior to construction, the City shall have a Bat Habitat Assessment conducted for the trees and culverts to be removed. The Habitat Assessment shall be completed by a qualified biologist (e.g., a biologist holding a California Department of Fish and Wildlife collection</p>  | <p>Conduct Bat Habitat Assessment.</p>   | <p>City of Santa Rosa</p> | <p>Verify Bat Habitat Assessment is conducted prior to construction.</p>  |  |

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| <p>permit and a Memorandum of Understanding with the California Department of Fish and Wildlife allowing the biologist to handle and collect bats). The Habitat Assessment shall evaluate the trees for suitable entry points and roost features, and shall provide focused daytime surveys for day-roosting bats. If a special-status bat species is found, or if suspected day roosts for special-status bats are identified, then the Habitat Assessment shall identify suitable performance measures for avoiding impacts to roosts, which may include, but would not be limited to:</p> <ul style="list-style-type: none"> <li>• Consultation with the California Department of Fish and Wildlife to determine appropriate measures for protecting bats with young if present, and for implementing measures to exclude non-breeding bat colonies during construction process.</li> <li>• Phased removal of trees where selected limbs and branches not containing cavities are removed using chainsaws on the first day, with the remainder of the tree removed using chainsaws or other equipment on the second day.</li> </ul> <p>Based on the daytime habitat assessment, and if culvert and site conditions warrant further surveys, additional surveys may be required, e.g. a night emergence survey, or radio-controlled remote vehicle with infrared camera system to determine presence or absence of bats further inside the culverts. If no bats are present during the day, the culverts may be partially blocked with appropriate mesh or netting to prevent subsequent occupation. If bats are present during the day, additional exclusion and eviction efforts would be required based on specific recommendations of a qualified bat biologist in consultation with the California Department of Fish and Wildlife.</p> | <p>Implement suitable performance measures as necessary.</p>   |                           | <p>Verify that bat performance measures are in 90% specifications.</p>   |  |
| <p><b>BIO-6: Compensate for Loss of Riparian and Oak Woodland Vegetation</b></p> <p>The City shall retain a licensed landscape architect or qualified biologist to develop a riparian and oak woodland revegetation plan for the project. The revegetation plan shall include replanting locally native tree species, riparian vegetation and oak trees (either on-site or off-site but in the local watershed and woodland areas) at a minimum of 1:1 ratio for loss of non-native trees and at a ratio of 3:1 for oak and non-oak native trees, or as required by CDFW during permitting.</p> <p>This may include removing non-native invasive species from riparian corridors and adjacent areas and revegetating riparian corridors with native species to enhance aquatic and terrestrial habitat. Native, locally available and genetically appropriate riparian plant materials shall be selected for planting. Oak regeneration shall be prioritized to occur within existing oak woodland areas near the project site, with valley oak woodland restored at a 3:1 ratio based on acreage impacted, or as required by CDFW during permitting.</p> <p>The goal of such a plan shall be to ensure no net loss of functional value of riparian and oak woodland habitat. The plan shall include planting requirements, monitoring requirements, and an adaptive management strategy, and the City shall implement the plan's provisions. Riparian restoration plantings and oak plantings shall be monitored</p>  | <p>Quantify tree replacement and oak woodland acreage to be restored.</p> <p>Develop a riparian and oak woodland revegetation plan.</p> <p>Incorporate requirements into specifications.</p> | <p>City of Santa Rosa</p> | <p>Calculate impacts to be mitigated.</p> <p>Verify riparian and oak woodland revegetation requirements are in 90% specifications.</p> <p>Verify success of replacement vegetation annually for five years after project completion.</p> |  |



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| annually for a minimum of 5 years after project completion to ensure that the replacement plantings have developed and survive.  |   |                           |  |  |
| <b>BIO-7: Compensate for Loss of Wetlands and Waters</b><br>The City shall avoid fill of seasonal wetlands and waters, to the extent feasible. If fill cannot be avoided, the City shall compensate for the loss of seasonal wetland habitat through the purchase of wetland credits in an approved mitigation bank within the Santa Rosa Plain so that there is no net loss in wetlands. The City shall also compensate for impacts to creeks and other waters, including: <ul style="list-style-type: none"> <li>• Removal of sediments and foreign materials deposited by construction activities from jurisdictional waters.</li> <li>• Restoration of disturbed waters or stream gradients to original contour and hydrologic condition, to the extent feasible.</li> <li>• Bank stabilization prior to the onset of winter using erosion and sediment control best management practices.</li> <li>• Required permits from the U.S. Army Corp of Engineers, the North Coast Regional Water Quality Control Board, the California Department of Fish and Game, and the Sonoma County Water Agency shall be received prior to the start of any on-site construction activity. The City shall ensure any additional measures outlined in the permits are implemented.</li> </ul> | Quantify and map wetland impacts.<br>Purchase mitigation credits prior to construction.   | City of Santa Rosa        | Calculate and purchase credits prior to construction.<br>Verify minimization measures and permit requirements are in 90% specifications. |  |
| <b>BIO-8: Comply with City and County Tree Ordinance</b><br>The City shall replace any heritage, landmark, or other protected trees in accordance with tree replanting requirements indicated in Santa Rosa Municipal Code Chapter 17-24 and Sonoma County Code Chapter 26D. Replacement trees shall be planted within the project area; however, if the project area is inadequate in size to accommodate the replacement trees, the trees shall be planted on public property with the approval of the Director of the City's Planning and Economic Development Department, the Sonoma County Planning Department, or through payment of in-lieu fees.   | Quantify tree replacement requirements.<br>Replant trees or pay in-lieu fees.<br>Incorporate tree replacement requirements into specifications. | City of Santa Rosa        | Verify tree replacement requirements are calculated.<br>Verify that requirements are in 90% specifications.                              |  |
| <b>Mitigation Measure CR-1: Protect Archaeological Resources during Construction Activities</b><br>In the event that any subsurface archaeological features or deposits, including locally darkened midden soil, are discovered during construction-related earth-moving activities, all ground-disturbing activity in the vicinity of the resource shall be halted, a qualified professional archaeologist shall be retained to evaluate the find, and the appropriate tribal representative(s) shall be notified. If the find qualifies as a historical resource or unique archaeological resource as defined by CEQA, the archaeologist shall develop appropriate   | Incorporate into specifications.  | City of Santa Rosa        | Verify requirements are in 90% specifications.   |  |

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| measures to protect the integrity of the resource and ensure that no additional resources are affected.   |  |                                  |  |   |
| <b>Mitigation Measure CR-2: Protect Paleontological Resources during Construction Activities</b><br>In the event that fossils are encountered during construction (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants), construction activities shall be diverted away from the discovery within 50 feet of the find, and a professional paleontologist shall be notified to document the discovery as needed, to evaluate the potential resource, and to assess the nature and importance of the find. Based on the scientific value or uniqueness of the find, the paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the material, if it is determined that the find cannot be avoided. The paleontologist shall make recommendations for any necessary treatment that is consistent with currently accepted scientific practices. Any fossils collected from the area shall then be deposited in an accredited and permanent scientific institution where they will be properly curated and preserved.   | Incorporate into specifications.   | City of Santa Rosa               | Verify requirements are in 90% specifications.                               |   |
| <b>Mitigation Measure CR-3: Protect Human Remains if Encountered during Construction</b><br>If human remains, associated grave goods, or items of cultural patrimony are encountered during construction, work shall halt in the vicinity of the find and the County Coroner shall be notified immediately. The following procedures shall be followed as required by Public Resources Code § 5097.9 and Health and Safety Code § 7050.5. If the human remains are determined to be of Native American origin, the Coroner shall notify the Native American Heritage Commission within 24 hours of the determination. The Native American Heritage Commission shall then notify the Most Likely Descendant (MLD), who has 48 hours to make recommendations to the landowner for the disposition of the remains. A qualified archaeologist, the City and the MLD shall make all reasonable efforts to develop an agreement for the treatment, with appropriate dignity, of any human remains and associated or unassociated funerary objects. The agreement would take into consideration the appropriate excavation, removal, recordation, analysis, custodianship, and final disposition of the human remains and associated or unassociated funerary objects. | Incorporate into specifications.   | City of Santa Rosa               | Verify requirements are in 90% specifications.                               |   |
| <b>Mitigation Measure HAZ-1: Handling and Disposal of Hazardous Wastes</b><br>The City and its contractor shall prepare and implement a Soil and Groundwater Management Plan for excavation and dewatering activities in the vicinity of the Fulton Road/Guerneville Road intersection (between approximately STA 12+00 and 15+00 on the project plans). Elements of the Soil and Groundwater Management Plan shall include, but would not necessarily be limited to, the following:  | Develop Soil and Groundwater Management Plan.<br>Incorporate Soil and Groundwater Plan measures into specifications. | City of Santa Rosa               | Verify soil and groundwater handling requirements are in 90% specifications. |   |



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| <ul style="list-style-type: none"> <li>Measures to address hazardous materials and other worker health and safety issues during construction, including the specific level of protection required for construction workers. This shall include preparation of a site-specific health and safety plan in accordance with federal OSHA regulations (29 CFR 1910.120) and Cal-OSHA regulations (8 CCR Title 8, Section 5192) to address worker health and safety issues during construction.</li> <li>Monitoring of excavation activities for soil and groundwater contamination. Monitoring shall include, at minimum, visual and organic vapor monitoring by personnel with appropriate hazardous materials training, including 40 hours of Hazardous Waste Operations and Emergency Response (HAZWOPER) training. If visual or organic vapor monitoring indicates signs of suspected contaminated soil, then soil and groundwater samples shall be collected and analyzed to characterize soil and water quality.</li> <li>Groundwater brought to the surface as a result of construction dewatering shall be handled in a manner appropriate to construction-related permits for dewatering. If contamination is suspected or noted during the construction phase, then the groundwater shall be containerized and analyzed for contamination by a laboratory, certified by the California Environmental Protection Agency (CalEPA) Environmental Laboratory Accreditation Program (ELAP), using United States Environmental Protection Agency (USEPA)-approved analytical methods. If contaminated groundwater is encountered, precautions shall be taken to assure that the installation of piping or other construction activities do not further disperse contamination.</li> <li>All potentially contaminated materials encountered during project construction activities shall be evaluated in the context of applicable local, state and federal regulations and/or guidelines governing hazardous waste. All materials deemed to be hazardous shall be remediated and/or disposed of following applicable regulatory agency regulations and/or guidelines. Disposal sites for both remediated and non-remediated soils shall be identified prior to beginning construction. Management of these sites shall be documented in a Material Management Plan acceptable to applicable agencies. All evaluation, remediation, treatment, and/or disposal of hazardous waste shall be supervised and documented by qualified hazardous waste personnel.</li> </ul> |                                  |                           |  |  |
| <b>HWQ-1: Seasonal Work Restrictions</b><br>Construction activities within Forestview Creek and Peterson Creek shall be conducted during the dry season, May 15 through October 15, when the creeks are completely or almost without standing water.  | Incorporate into specifications. | City of Santa Rosa        | Verify restrictions are in 90% specifications. |  |
| <b>HWQ-2: Stormwater Control Measures during Construction</b><br>The City shall obtain coverage under State Water Resources Control Board Order No. 2009-0009-DWQ, Waste Discharge Requirements for Discharges of Storm Water Runoff  | Incorporate into specifications. | City of Santa Rosa        | Verify requirements are in 90% specifications. |  |

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| <p>Associated with Construction and Land Disturbance Activities, as amended by Order No. 2012-0006. The City and/or its contractor shall submit permit registration documents (notice of intent, risk assessment, site maps, Storm Water Pollution Prevention Plan (SWPPP), annual fee, and certifications) to the State Water Resources Control Board. The SWPPP shall address pollutant sources, non-storm water discharges, best management practices, and other requirements specified in the above-mentioned Order. The SWPPP shall also include dust control practices to prevent wind erosion, sediment tracking, dust generation by construction equipment, management of concrete slurry, asphalt, pavement cutting, and other street and road activities to avoid discharge to storm drains from such work. A Qualified Storm Water Pollution Prevention Plan Practitioner shall oversee implementation of the Plan, including visual inspections, sampling and analysis, and ensuring overall compliance.</p>   | <p>Prepare SWPPP and permit registration documents prior to construction.</p> <p>Retain a Qualified Storm Water Pollution Prevention Plan Practitioner to oversee SWPPP implementation.</p>   |                           | <p>Confirm that SWPPP meets State Board requirements and is implemented during construction.</p>  |  |
| <p><b>HWQ-3: Manage Drinking Water System Discharges</b></p> <p>If construction dewatering is required, the City and its contractor shall evaluate reasonable options for dewatering management that would avoid discharging to a local surface water or storm drain. The following management options shall be considered:</p> <ul style="list-style-type: none"> <li>• Reuse the water on-site for dust control, compaction, or irrigation.</li> <li>• Retain the water on-site in a grassy or porous area to allow infiltration/evaporation.</li> <li>• Discharge (by permit) to a sanitary sewer.</li> </ul> <p>If discharging to the sanitary sewer, the City shall comply with a one-time discharge permit or other type of approval requiring, as necessary, measures for characterizing the discharge and ensuring filtering methods and monitoring to verify that the discharge is compliant with the City's local wastewater discharge requirements.</p> <p>If discharging to a local surface water or storm drain, the City shall obtain coverage under Order No. R1-2009-0045, Waste Discharge Requirements for Low Threat Discharges to Surface Waters in the North Coast Region. The City shall submit permit registration documents to the North Coast Regional Water Quality Control Board, including development of a Best Management Practices/Pollution Prevention Plan to characterize the discharge and to identify specific measures to control the discharge, such as sediment controls to ensure that excessive sediment is not discharged, and flow controls to prevent erosion and flooding downstream of the discharge. The City shall ensure that the contractor oversees implementation of the Best Management Practices/Pollution Prevention Plan during construction dewatering activities, including visual inspections and ensuring overall compliance.</p> | <p>Incorporate requirements into specifications.</p> <p>If discharging to local surface water or storm drain, prepare Best Management Practices / Pollution Prevention Plan and obtain required permit prior to construction.</p> <p>Implement applicable measures in permit.</p> | <p>City of Santa Rosa</p> | <p>Verify requirements are in 90% plan set.</p> <p>Verify obtainment of permit and that requirements are implemented during construction.</p> |  |
| <p><b>NOI-1: Reduce Vibration Levels</b></p> <p>The City shall prohibit the use of heavy vibration-generating construction equipment, such as vibratory rollers or the dropping of heavy objects, within 20 feet of a residence.</p>   | <p>Incorporate requirement into specifications.</p>   | <p>City of Santa Rosa</p> | <p>Verify requirements are in 90% specifications.</p>   |  |

**MITIGATION AND MONITORING PROGRAM**  
**Fulton Road Widening Improvement Project**

| Mitigation Measures and Environmental Protection Actions (EPAs)   | Implementation Procedure  | Monitoring Responsibility | Monitoring / Reporting Action & Schedule   | Monitoring Compliance Record (Name/Date) |
|---|---|---------------------------|--|--|
|   |   |                           | Monitor weekly during primary phases of construction.  |  |
| <p><b>NOI-2: Reduce Construction Noise Levels</b></p> <p>The City shall require the contractor to adhere to the following Construction Best Management Practices to reduce construction noise levels emanating from construction activities and minimize disruption and annoyance at existing noise-sensitive receptors in the project vicinity.</p> <ul style="list-style-type: none"> <li>• Limit construction hours to between 7:00 a.m. and 7:00 p.m., Monday through Friday, and to between 9:00 a.m. to 5:00 p.m. on Saturdays, where feasible.</li> <li>• Limit nighttime usage of noisy equipment, and avoid scheduling multiple noisy pieces of equipment simultaneously to minimize noise.</li> <li>• Minimize nighttime deliveries to the degree feasible.</li> <li>• Implement a construction noise monitoring plan, which includes a provision for noise monitoring at the nearby receptors to confirm that nighttime construction noise levels meet nighttime noise level thresholds at the single- and multi-family residential land uses. Construction monitoring shall occur for the initial three days of construction at each intersection to show that the nighttime construction activities are compliant with the construction noise level thresholds (50 dBA Leq exterior noise level).</li> <li>• Sensitive residential receptors identified by the noise monitoring with the potential to be exposed to nighttime construction noise levels of 50 dBA Leq or greater, shall be provided with vouchers for alternate accommodations for the duration of the nighttime construction phase.</li> <li>• Construct temporary noise barriers, where feasible, to screen stationary noise-generating equipment. Temporary noise barrier fences would provide a 5 dBA noise reduction if the noise barrier interrupts the line-of-sight between the noise source and receiver and if the barrier is constructed in a manner that eliminates any cracks or gaps.</li> <li>• Construction equipment should be well-maintained and used judiciously to be as quiet as possible. The contractor should use equipment with efficient noise-suppression devices, where feasible.</li> <li>• Equip all internal combustion engine-driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment.</li> <li>• Unnecessary idling of internal combustion engines should be strictly prohibited.</li> <li>• All jackhammers, chainsaws, and pavement breakers used on the construction site shall be enclosed with shields, acoustical barrier enclosures, or noise barriers</li> <li>• Locate stationary noise-generating equipment, such as air compressors or portable power generators, as far as possible from sensitive receptors as feasible. If they must</li> </ul> | <p>Incorporate requirements and Construction Best Management Practices into specifications.</p> <p>Develop and implement construction noise monitoring plan.</p> <p>Notify adjacent sensitive receptors</p> | City of Santa Rosa        | <p>Verify requirements are in 90% specifications.</p> <p>Monitor weekly during primary phases of construction.</p> |  |

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| <p>be located near receptors, adequate muffling (with enclosures where feasible and appropriate) shall be used to reduce noise levels at the adjacent sensitive receptors. Any enclosure openings or venting shall face away from sensitive receptors.</p> <ul style="list-style-type: none"> <li>Utilize “quiet” models of air compressors and other stationary noise sources where technology exists. Select hydraulically- or electrically-powered equipment and avoid pneumatically-powered equipment, where feasible.</li> <li>Locate material stockpiles, as well as maintenance/equipment staging and parking areas, as far as feasible from residential receptors.</li> <li>Control noise from construction workers’ radios to a point where they are not audible at existing residences bordering the project site.</li> <li>The contractor shall prepare a detailed construction schedule for major noise-generating construction activities. The construction plan shall identify a procedure for coordination with adjacent residential land uses so that construction activities can be scheduled to minimize noise disturbance.</li> <li>Designate a “disturbance coordinator” who would be responsible for responding to any complaints about construction noise. The disturbance coordinator will determine the cause of the noise complaint (e.g., bad muffler, etc.) and will require that reasonable measures be implemented to correct the problem. Conspicuously post a telephone number for the disturbance coordinator at the construction site and include in it the notice sent to neighbors regarding the construction schedule.</li> </ul> |  |                           |   |  |
| <p><b>TR-1: Traffic Controls</b></p> <p>The City shall require the project contractor to develop and implement a temporary Traffic Control Plan outlining work zones, activities, and time needed to complete the work in each zone. As stated in the “Traffic Standards” section of the City’s Design and Construction Standards, no work shall be completed in the public right-of-way during peak hours, unless permitted by the City Traffic Engineer. The project shall keep at least one lane open in each direction of travel on Fulton Road at all times during the construction process. Work performed on the segment adjacent to Piner High School shall be scheduled to occur during the summer months when school is in recess to minimize impacts to school operations, or outside of normal drop-off and pick-up hours.</p>  | <p>Develop and implement a Traffic Control Plan.</p> <p>Incorporate into specifications.</p>   | <p>City of Santa Rosa</p> | <p>Verify requirements are in 90% specifications.</p> <p>Verify Plan prepared prior to construction.</p> <p>Monitor weekly during primary phases of construction.</p> |  |
| <p><b>TR-2: Maintain Emergency Access and Notify Emergency Responders</b></p> <p>The City shall require contractors to provide adequate emergency access to all properties along the corridor during the construction process. At locations where the access to a nearby property is temporarily blocked, the contractor shall be required to have ready the means necessary to accommodate access by emergency vehicles to such properties, such as plating over excavations. As construction progresses, emergency providers shall be notified in advance of the timing, location, and duration of construction activities and the locations and durations of any temporary lane closures.</p>  | <p>Incorporate into specifications.</p> <p>Notify emergency responders and property owners and occupants whose driveways may be blocked.</p> | <p>City of Santa Rosa</p> | <p>Verify requirements are in 90% specifications.</p> <p>Verify requirements are implemented during construction.</p>   |  |

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| <p><b>TR-3: Reduce Construction Impacts on Transit, Bicycle, and Pedestrian Facilities</b></p> <p>The City shall ensure that pedestrian and bicycle access and circulation shall be maintained during project construction where safe to do so. Where it is unsafe to maintain pedestrian and bicycle facilities at their current location, temporary signage will be used to guide users to alternate temporary paths. Temporary signage and other traffic control measures necessary to inform users of construction conditions shall be utilized. Any transit stops impacted by construction shall be temporarily relocated (with proper signage) within the temporary construction zone, if necessary, to maintain the existing transit service throughout the segment.</p>  | <p>Incorporate into specifications.</p>   | <p>City of Santa Rosa</p> | <p>Verify in 90% specifications.<br/>Monitor weekly during primary phases of construction.</p>               |  |
| <p><b>TCR-1: Protect Tribal Cultural Resources during Construction Activities</b></p> <p>The City shall retain a Native American monitor from the Federated Indians of the Graton Rancheria to monitor construction related earth-moving activities of the project in the vicinity of Youth Community Park and the Fox Hollow Subdivision sites. In the event that any subsurface features or deposits are discovered during such monitoring that the Native American monitor identifies as potential tribal cultural resources, all ground-disturbing activity in the vicinity of the resource shall be halted. If the find qualifies as a tribal cultural resource as defined by CEQA, the City shall ensure that appropriate actions to protect the resource are taken and that no additional resources are affected.</p> | <p>Coordinate construction monitoring with Federated Indians of the Graton Rancheria during construction near Youth Community Park and the Fox Hollow Subdivision site.</p> | <p>City of Santa Rosa</p> | <p>Verify monitoring requirements in 90% specifications.<br/>Verify that construction monitoring occurs.</p> |  |