

**MITIGATION MONITORING AND REPORTING PROGRAM
Road Access Stabilization Repairs for Tank R7 Project**

Mitigation Measure	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Non-Compliance Sanction/ Activity	Monitoring Compliance Record (Name/Date)
<p>Environmental Protection Action 1 – BAAQMD Basic Construction Measures To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the City will include the following Bay Area Air Quality Management District (BAAQMD) recommended Basic Construction Measures in all construction contract specifications for the project:</p> <ul style="list-style-type: none"> • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day; • All haul trucks transporting soil, sand, or other loose material off-site shall be covered; • 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; • All vehicle speeds on unpaved areas shall be limited to 15 mph; • All paving shall be completed as soon as possible after trenching work is finished; • 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; • 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; • 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. 	<p>Incorporate into specifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs. Monitor jobsite once per week during construction.</p>	<p>Construction shall not begin unless incorporated into specs. Construction shall not continue if jobsite is out of compliance for more than 2 business days.</p>	

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<p>Environmental Protection Action 2 – Geotechnical Design</p> <p>The City will design the project to comply with the site-specific recommendations made in the project’s geotechnical report (Kleinfelder 2015). This would include design in accordance with the seismic, foundation, and fencing design criteria, as well as site preparation and grading recommendations included in the report. The geotechnical recommendations will be incorporated into the final plans and specifications for the project, and will be implemented during construction.</p>	Incorporate into plans and specifications.	City of Santa Rosa	Verify in 90% plans and specs.	Construction shall not begin unless incorporated into plans and specs.	

<p>Environmental Protection Action 3 – Bird and Bat Surveys The City will take the following measures to avoid significant impacts to birds and bats:</p> <ul style="list-style-type: none"> • Grading or removal of any vegetation shall be conducted outside the nesting season, which occurs between approximately February 1 and August 31, if feasible. (No survey is required during this period). • 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 project areas and nearby 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. • 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. • 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 CDFW. • 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. • After the fencing is in place there will be no restrictions on grading or construction activities outside the prescribed buffer zones. <p>The following measures will be required to avoid impacts to roosting bats.</p> <p>(a) Preconstruction Surveys:</p> <ul style="list-style-type: none"> • All trees and structures suitable for use by bats would be surveyed for signs of bats prior to project activities. <p>(b) Avoidance Measures:</p> <ul style="list-style-type: none"> • If bats are discovered during the surveys, then a buffer of 100 to 150 feet would be maintained. • The optimal time to remove trees is September 15 through October 15, when young would be capable of flying, and 	<p>Incorporate into specifications</p> <p>Conduct bat and bird habitat assessment</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p> <p>Conduct surveys as required according to specific timing.</p>	<p>Construction shall not begin unless incorporated into specs.</p> <p>Construction shall not continue until jobsite is in compliance.</p>	
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<p>between February 15 to April 1 to avoid hibernating bats and prior to formation of maternity sites.</p> <ul style="list-style-type: none"> • If flushing of bats is necessary, it will be done by a biologist during the non-breeding season from October 1 to March 31. When flushing bats, structures and/or trees will be removed carefully to avoid harming individuals, and torpid bats given time to completely arouse and fly away. • During the maternity season from April 1 to September 30, prior to construction, a qualified biologist will determine if a bat nursery is present at any sites identified as potentially housing bats. • If an active nursery is present, disturbance of bats will be avoided until the biologist determines that breeding is complete and young are reared. 					

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<p>Environmental Protection Action 4 – Offsite Construction Staging Areas The City will ensure that off-site construction staging areas meet the following qualifications:</p> <ul style="list-style-type: none"> • Staging areas will not occur within 100 feet of sensitive receptors. Sensitive receptors may include residences, overnight health care facilities, and schools. • Staging will not occur where there are jurisdictional wetlands or habitat for special-status species. Prior to using a staging area, the City will ensure that wetland and habitat surveys are conducted by qualified biologists. Staging areas that are entirely paved, compacted, or maintained landscaped areas are not subject to this measure. • Staging will protect trees. • Staging will not occur where known archaeological or historic resources have been previously identified. Prior to using a staging area, the City will conduct an archival records search with the Northwest Information Center to identify known archaeological resources within the vicinity of the project facility. Staging areas that are entirely paved and that would not be excavated are not subject to this measure. • Staging areas located in a floodplain shall not include fueling areas or storage areas for chemicals or hazardous substances between October 1 and April 30. 	<p>Incorporate into specifications.</p> <p>Verify any off-site staging areas identified meet qualifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p> <p>Verify staging areas identified meet qualifications prior to use.</p>	<p>Construction shall not begin unless incorporated into specs.</p> <p>Use of the offsite staging area shall not begin/continue until it is in compliance.</p>	

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<p>Mitigation Measure CR-1: Identify and Avoid or Minimize Impacts to Unknown Historical and/or Archaeological Resources If subsurface historical/archaeological materials are encountered during construction activities, the piece of equipment that encounters the materials shall be stopped, and the find inspected by a qualified historian/archaeologist. Project personnel shall not collect historical/archaeological materials. If the historian/archaeologist determines that the find qualifies as a unique historical/archaeological resource for purposes of CEQA (CEQA Guidelines Section 15064.5(c)(3)), all work must be stopped in the immediate vicinity to allow the archaeologist to evaluate any materials and recommend appropriate treatment. Such treatment and resolution shall include either modifying the project to allow the materials to be left in place or undertaking data recovery of the materials in accordance with standard archaeological methods. The preferred treatment of the resource is protection and preservation.</p>	<p>Incorporate into specifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p>	<p>Construction shall not begin unless incorporated into specs. If subsurface materials are encountered, all work in the vicinity shall be stopped, until appropriate resolution is made, as specified in the MM.</p>	

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<p>Mitigation Measure CR-2: Avoid or Document Unknown Paleontological Resources If a paleontological resource is discovered during construction, all ground disturbing activities within 50 feet of the find shall be temporarily halted but may be diverted to areas beyond 50 feet from the discovery to continue working. An appointed representative of the City shall notify a qualified paleontologist, who will document the discovery as needed, evaluate the potential resource, and assess the nature and significance 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 the City determines that the find cannot be avoided. The paleontologist shall make recommendations for any necessary treatment that is consistent with currently accepted scientific practices.</p>	<p>Incorporate into specifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p>	<p>Construction shall not begin unless incorporated into specs. If a paleontological resource is discovered, all ground disturbing activities within 50 feet shall be stopped, until appropriate resolution is made, as specified in the MM.</p>	

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<p>Mitigation Measure CR-3: Procedures for Encountering Human Remains California Health and Safety Code Section 7050.5 states that it is a misdemeanor to knowingly disturb a human grave. If human graves are encountered, the City and its Contractor shall ensure that work shall halt in the vicinity and the County Coroner shall be notified. At the same time, a qualified archaeologist shall be contacted to evaluate the situation. If human remains are of Native American origin, the Sonoma County Coroner shall notify the Native American Heritage Commission within 24 hours of identification, pursuant to Public Resources Code 5097.98. The treatment of any human remains and associated or unassociated funerary objects discovered during soil-disturbing activities shall comply with applicable State laws. Such treatment shall include immediate notification of the Sonoma County Coroner and, in the event of the coroner's determination that the human remains are Native American, notification of the Native American Heritage Commission, which would appoint a Most Likely Descendant (MLD) (PRC Section 5097.98). 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 (CEQA Guidelines Section 15064.5[d]). 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. The Public Resources Code allows 48 hours to reach agreement on these matters. If the MLD and the other parties could not agree on the reburial method, the City shall follow Section 5097.98(b) of the Public Resources Code, which states that "the landowner or his or her authorized representative shall reinter the human remains and items associated with Native American burials with appropriate dignity on the property in a location not subject to further subsurface disturbance."</p>	<p>Incorporate into specifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p>	<p>Construction shall not begin unless incorporated into specs. If potential human remains or associated funerary objects are encountered, all work in the vicinity shall be stopped, until appropriate resolution is made, as specified in the MM.</p>	

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<p>Mitigation Measure CR-4: Minimize Impacts to Unknown Tribal Cultural Resources If potential tribal cultural resources are uncovered during construction, the City shall halt work, and workers shall avoid altering the materials and their context. Project personnel shall not collect cultural materials. The City shall notify the Lytton Band of Pomo Indians and the Federated Indians of Graton Rancheria. The City, in coordination with interested tribes, shall determine if the resource qualifies as a tribal cultural resource under CEQA. If it does, then all work must remain stopped in the immediate vicinity to allow evaluation of any materials. The City shall ensure that qualified resources are avoided or protected in place, in accordance with the requests of the interested tribes, to the extent feasible. Work may proceed on other parts of the Project while mitigation for tribal cultural resources is being carried out.</p>	<p>Incorporate into specifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p>	<p>Construction shall not begin unless incorporated into specs. If potential tribal cultural resources are uncovered, construction shall be stopped in the vicinity until the Lytton Band of Pomo Indians and the Federated Indians of Graton Rancheria have been notified and appropriate resolution is made, as specified in the MM.</p>	

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<p>Mitigation Measure HAZ-1: Reduce Wildland Fire Hazards during Construction The City or its contractor shall remove and clear away dry, combustible vegetation from the construction site. Grass and other vegetation less than 18 inches in height above the ground shall be maintained where necessary to stabilize the soil and prevent erosion. Vehicles shall not be parked in areas where exhaust systems may contact combustible materials. Fire extinguishers shall be available on the construction site to assist in quickly extinguishing any small fires. The contractor shall have the phone number for the local fire department on site.</p>	<p>Incorporate into specifications.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs. Confirm compliance with measures prior to earthmoving activity and/or vegetation removal.</p>	<p>Construction shall not begin unless incorporated into specs.</p>	

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<p>Mitigation Measure HWQ-1: Manage Construction Dewatering If construction dewatering is required, the City 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"> • Reuse the water on-site for dust control, compaction, or irrigation. • Retain the water on-site in a grassy or porous area to allow infiltration/evaporation. • Discharge (by permit) to a sanitary sewer. <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. If discharging to a local surface water or storm drain, the City shall obtain coverage under NCRWQCB 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 NCRWQCB, 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 into specifications.</p> <p>If dewatering may be required, decide on management option.</p>	<p>City of Santa Rosa</p>	<p>Verify in 90% specs.</p> <p>Decide on management option 2 months in advance of dewatering.</p> <p>Monitor once per week during dewatering at each site that requires on-site reuse, on-site retention, or a WDR.</p>	<p>Construction shall not begin unless incorporated into specs.</p> <p>Dewatering shall not begin/continue until jobsite is in compliance.</p>	

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<p>Mitigation Measure NOI-1: Noise Reduction Measures during Construction The City or its contractor shall do the following during construction:</p> <ul style="list-style-type: none"> • Limit construction hours to between 7:00 a.m. and 7:00 p.m. on non-holiday weekdays or as allowed by City Municipal Code. Any work outside of these hours by the construction contractors shall require approval from the City Engineer. • Construction equipment shall be properly muffled and maintained with noise reduction devices to minimize construction-generated noise. • Prohibit unnecessary idling of internal combustion engines. • The contractor shall locate stationary noise sources away from residents, and require the use of acoustic shielding with such equipment when feasible and appropriate. • Notify residents within 500 feet of the construction site of the construction scheduling in writing. • The construction contractor shall designate a “noise disturbance coordinator” for construction activities. The coordinator would be responsible for responding to any local complaints regarding construction noise. The coordinator would determine the cause of the noise complaint (i.e., starting too early, bad muffler, no shielding), and would require that reasonable measures warranted to correct the problem would be implemented. Conspicuously post a telephone number for the coordinator at the construction site and include it in the notice sent to neighbours and businesses regarding the construction schedule. 	<p>Incorporate into specifications.</p> <p>Notify adjacent residents within 500 feet.</p>	<p>City of Santa Rosa or its contractor</p>	<p>Verify in 90% specs.</p> <p>Send notices prior to start of construction.</p> <p>Respond to neighbor complaints within 2 business days.</p>	<p>Construction shall not begin unless incorporated into specs.</p> <p>The activity which generated the noise complaint shall not continue if the activity is out of compliance with MM for more than 2 business days.</p>	