

FLORIN CREEK MULTI-USE BASIN PROJECT

Mitigation Monitoring and Reporting Program

The California Public Resources Code Section 21081.6, subdivision (a)(1) requires lead agencies to, “adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation”. This Mitigation Monitoring and Reporting Program (MMRP) identifies: mitigation measures adopted by the Sacramento Area Flood Control Agency (SAFCA) for the Florin Creek Multi-Use Basin Project; timing of the action; responsibility for implementation of the mitigation measures; and, responsibility for monitoring implementation of mitigation measures. Mitigation measures were included in the Initial Study (IS) (State Clearinghouse No. 2014032030).

The MMRP table includes the following:

- **Mitigation Measures** – lists the adopted mitigation measures from the EA/IS.
- **Timing** – identifies the timing of implementation of the actions described in the mitigation measures.
- **Responsibility for Implementation** – identifies the agency/party responsible for implementing the actions described in the mitigation measures.
- **Responsibility for Monitoring** – identifies the agency/party responsible for monitoring implementation of the actions described in the mitigation measures.

Abbreviations used in the MMRP include:

- USACE – US Army Corps of Engineers
- CVRWQCB – Central Valley Regional Water Quality Control Board
- SAFCA – Sacramento Area Flood Control Agency
- SMAQMD – Sacramento Metropolitan Air Quality Management District

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MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Timing	Responsible for Mitigation	Responsible for Monitoring	Verification and Implementation	
				Date Completed	Status/Comments
Air Quality					
<p>Mitigation Measure AIR-1: The SAFCA shall require the construction contractor to include the following SMAQMD Basic Construction Emission Control Practices in all grading or improvement plans:</p> <ul style="list-style-type: none"> All exposed surfaces shall be watered two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads. Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways shall be covered. Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited. Limit vehicle speeds on unpaved roads to 15 miles per hour. All roadways, driveways, sidewalks, parking lots shall be paved as soon as possible. In addition, building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes (as required by the state airborne toxics control measure [Title 13, Section 2485 of the California Code of Regulations]). Provide clear signage that posts this requirement for workers at the entrances to the site. Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment shall be checked by a certified mechanic and determine to be running in proper condition before it is operated. 	During Construction	SAFCA	SAFCA		
<p>Mitigation Measure AIR-2: The SAFCA shall require the construction contractor to include the following SMAQMD Enhanced Exhaust Control Practices in all grading or improvement plans:</p> <ul style="list-style-type: none"> Provide a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during any portion of the Proposed Project to the SMAQMD. The inventory shall include the horsepower rating, engine model year, and projected hours of use for each piece of equipment. The construction contractor shall provide the anticipated construction timeline including start date, and name and phone number of the project manager and on-site 	Prior to Construction	SAFCA	SMAQMD		

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<p>foreman. This information shall be submitted at least 4 business days prior to the use of subject heavy-duty off-road equipment. The inventory shall be updated and submitted monthly throughout the duration of the Proposed Project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs.</p> <ul style="list-style-type: none"> • Provide a plan in conjunction with the equipment inventory, approved by the SMAQMD, demonstrating that the heavy-duty (50 horsepower or more) off-road vehicles to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20% NOx reduction and 45% particulate reduction compared to the most recent CARB fleet average. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. • Emissions from all off-road diesel powered equipment used on the project site shall not exceed 40% opacity for more than three minutes in any one hour. Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) shall be repaired immediately, and the SMAQMD shall be notified within 48 hours of identification of non-compliant equipment. A visual survey of all in-operation equipment shall be made at least weekly, and a monthly summary of the visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in which no construction activity occurs. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey. The SMAQMD and/or other officials may conduct periodic site inspections to determine compliance. Nothing in this measure shall supercede other SMAQMD or state rules or regulations. • If at the time of granting of each building permit, the SMAQMD has adopted a regulation applicable to construction emissions, compliance with the regulation may completely or partially replace this mitigation. Consultation with the SMAQMD prior to construction will be necessary to make this determination. 	During Construction	SAFCA	SAFCA		
<p>Mitigation Measure AIR-3: The SAFCA shall coordinate with SMAQMD to determine and ensure payment of off-site mitigation fees to offset the significant NOx emissions associated with the Proposed Project.</p>					

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Biological Resources					
<p>Mitigation Measure BIO-1: A qualified biologist shall conduct a pre-construction survey for Sanford's arrowhead within the impacted stream channel and designated wetlands within 30 days prior to construction. If Sanford's arrowhead is not found, then no further measures are necessary. If Sanford's arrowhead is found within the Project site, CDFW will be notified at least 10 days prior to dewatering or construction impacts in the vicinity of Sanford's arrowhead in accordance with the California Native Plant Protection Act of 1977 (CDFW Code Section 1900-1913) to allow sufficient time to transplant the individuals to a suitable location.</p>	Prior to Project Completion – conduct a pre-construction survey	SAFCA	SAFCA/CDFW		
<p>Mitigation Measure BIO-2:</p> <ul style="list-style-type: none"> • Avoid Active Nesting Season. To avoid impacts to tree and shrub nesting bird species, conduct all tree and shrub removal and grading activities during the non-breeding season (generally September 1 through January 31) if feasible. For burrowing owls, surveys shall be conducted in both the breeding (April 15 to July 17) and non-breeding (December 1 to January 31) seasons. • Conduct Pre-construction Nesting Bird Surveys. If construction, grading or other project-related activities are scheduled during the nesting season (February 1 to August 31), pre-construction surveys would be conducted by a qualified wildlife biologist to identify active nests within 250 feet of proposed construction activities for tree-nesting raptors and within 500 feet for burrowing owls. The surveys would be conducted no less than 14 days and no more than 30 days prior to the beginning of construction. The results of the survey would be emailed to CDFW at least three days prior to construction. Surveys would be conducted by a qualified biologist in accordance with the following protocols: <ul style="list-style-type: none"> ○ Surveys for purple martin and nesting raptors would include at least two preconstruction surveys (separated by at least two weeks). ○ Surveys for other migratory bird species would take place no less than 14 days and no more than 30 days prior to the beginning of construction within 250 feet of suitable nesting habitat for tree-nesting raptors and within 500 feet for burrowing owls. ○ If the pre-construction surveys do not identify any nesting raptors or other nesting migratory bird species within areas potentially affected by construction activities, no further mitigation would be required. If the pre-construction surveys do identify nesting 	<p>Prior to Construction – pre-construction surveys</p> <p>During Construction – implement protection measures</p>	SAFCA	SAFCA/CDFW		

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<p>raptors or other nesting bird species within areas that may be affected by site construction, the following would be implemented.</p> <ul style="list-style-type: none"> • Avoid Active Bird Nest Sites. Should active nest sites be discovered within areas that may be affected by construction activities, additional measures would be implemented as described below. • Purple martin and other Migratory Birds: If active nests are found, project-related construction impacts would be avoided by establishment of appropriate no-work buffers to limit project-related construction activities near the nest site. The size of the no-work buffer zone would be determined in consultation with the CDFW although a 500-foot radius would be used when possible. The no-work buffer zone would be delineated by highly visible temporary construction fencing where appropriate. In consultation with CDFW, monitoring of nest activity by a qualified biologist may be required if the project-related construction activity has potential to adversely affect the nest or nesting behavior of the bird. No project-related construction activity would commence within the no-work buffer area until a qualified biologist and CDFW confirms that the nest is no longer active. 					
<p>Mitigation Measure BIO-3: If the verified wetland delineation determines that project construction would result in the loss of wetlands and other waters of the U.S, the Project applicant shall obtain a Section 404 (Clean Water Act) permit for impacts to jurisdictional wetlands from the USACE, and a Section 401 permit from the Regional Water Quality Control Board (RWQCB) and shall comply with all conditions of permits received. Terms of these permits would incorporate additional provisions to mitigate for the loss of waters of the U.S., including compensatory mitigation, and would ensure the “no net loss” of wetlands.</p>	Prior to Construction	SAFCA	SAFCA/USACE		
<p>Mitigation Measure BIO-4: Trees adjacent to construction activities may require additional protection. Where feasible, buffer zones shall include a minimum one-foot-wide zone outside the dripline for oaks or landmark trees. The locations of these resources shall be clearly identified on the construction drawings and marked in the field. Fencing or other barriers shall remain in place until all construction and restoration work that involves heavy equipment is complete. Construction vehicles, equipment, or materials shall not be parked or stored within the fenced area. No signs, ropes, cables, or other items shall be attached to the protected trees. Grading, filling, trenching, paving, irrigation, and landscaping within the driplines of oak trees shall be limited. Grading within the driplines of oak trees shall not be</p>	<p>Prior to Construction – conduct pre-construction survey</p> <p>During Construction – implement protection measures</p>	SAFCA	SAFCA		

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permitted unless specifically authorized by a Certified Arborist. Hand-digging must be done in the vicinity of major trees and as recommended by a Certified Arborist to prevent root cutting and mangling by heavy equipment.					
Cultural and Paleontological Resources					
Mitigation Measure CUL-1: If previously undiscovered cultural resources are encountered, all activity shall cease until it can be evaluated by a qualified archaeologist. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include stone, concrete, or adobe footings and walls; filled wells or privies; and deposits of metal, glass, and/or ceramic refuse. If the archaeologist determines that the resources may be significant, they will notify SAFCA. An appropriate treatment plan for the resources should be developed. The archaeologist shall consult with Native American representatives in determining appropriate treatment for prehistoric or Native American cultural resources.	During Construction	SAFCA	SAFCA		
Mitigation Measure CUL-2: If paleontological resources are encountered during earthmoving activities, the construction crew shall immediately cease work. SAFCA shall retain a qualified paleontologist to evaluate the resource and prepare a proposed mitigation plan. The proposed mitigation plan may include a field survey, construction monitoring, sampling and data recovery procedures, museum storage coordination for any specimen recovered, and a report of findings. Recommendations determined by SAFCA to be necessary and feasible shall be implemented before construction activities can resume at the site where the paleontological resources were discovered.	During Construction	SAFCA	SAFCA		
Mitigation Measure CUL-3: If human skeletal remains are uncovered during project construction, the project proponent will immediately halt work, contact the Sacramento County coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.5 (e)(1) of the CEQA Guidelines. If the County coroner determines that the remains are Native American, the project proponent will contact the NAHC, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by AB 2641). Per Public Resources Code 5097.98, the landowner shall ensure that the immediate vicinity, according to generally accepted	During Construction	SAFCA	SAFCA/Sacramento County		

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cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the landowner has discussed and conferred, as prescribed in this section (PRC 5097.98), with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains.					
Greenhouse Gas Emissions					
<p>Mitigation Measure GHG-1: The SAFCA shall require the construction contractor to include the following SMAQMD best management practices for reducing GHGs in all grading or improvement plans, where feasible:</p> <ul style="list-style-type: none"> • Improve fuel efficiency from construction equipment: • Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to no more than 3 minutes (5 minute limit is required by the state airborne toxics control measure [Title 13, sections 2449(d)(3) and 2485 of the California Code of Regulations]). Provide clear signage that posts this requirement for workers at the entrances to the site. • Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated. • Train equipment operators in proper use of equipment. • Use the proper size of equipment for the job. • Use equipment with new technologies (repowered engines, electric drive trains). • Perform on-site material hauling with trucks equipped with on-road engines (if determined to be less emissive than the off-road engines). • Use alternative fuels for generators at construction sites such as propane or solar, or use electrical power • Use an ARB approved low carbon fuel for construction equipment. (NOx emissions from the use of low carbon fuel must be reviewed and increases mitigated.) • Encourage and provide carpools, shuttle vans, transit passes and/or secure bicycle parking for construction worker commutes. • Reduce electricity use in the construction office by using compact 	Prior to Construction	SAFCA	SAFCA/SMAQMD		

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<p>fluorescent bulbs, powering off computers every day, and replacing heating and cooling units with more efficient ones.</p> <ul style="list-style-type: none"> Recycle or salvage non-hazardous construction and demolition debris (goal of at least 75% by weight). Use locally sourced or recycled materials for construction materials (goal of at least 20% based on costs for building materials, and based on volume for roadway, parking lot, sidewalk and curb materials). Wood products utilized should be certified through a sustainable forestry program. Minimize the amount of concrete for paved surfaces or utilize a low carbon concrete option. Produce concrete on-site if determined to be less emissive than transporting ready mix. Use SmartWay certified trucks for deliveries and equipment transport. Develop a plan to efficiently use water for adequate dust control. 					
Hydrology and Water Quality					
The contractor would be required to obtain a National Pollutant Discharge Elimination System (NPDES) permit from the Central Valley Regional Water Quality Control Board (CVRWQCB).	Prior to Construction – prepare SWPPP	SAFCA	SAFCA/CVRWQCB		
<ul style="list-style-type: none"> Prepare a Storm Water Pollution Prevention Plan (SWPPP) prior to initiation of construction activities. The SWPPP would be developed in accordance with guidance from the CVRWQCB. These plans would also be reviewed and approved by the Corps. Implement appropriate measures to prevent any debris, soil, rock, or other construction activities from getting into the water. The contractor will use appropriate measures to control dust on the project site and stockpiles. Properly dispose of oil or liquid wastes. Fuel and maintain vehicles in specified areas that are designed to capture spills. Inspect and maintain vehicles and equipment to prevent dripping of oil and other fluids. Schedule construction to avoid as much of the wet season as possible. If rains are forecast during the construction period, erosion control measures would be implemented as described in the SWPPP. 	During Construction – implement measures in SWPPP	SAFCA	SAFCA/CVRWQCB		

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<ul style="list-style-type: none"> • Train construction personnel in stormwater pollution prevention practices. • Revegetate and restore areas cleared by construction with native grasses in a timely manner to control erosion. 					
Noise					
<p>Mitigation Measure NOI-1: SAFCA shall ensure that construction contractors implement the following measures to reduce noise impacts due to construction:</p> <ul style="list-style-type: none"> • Prohibit construction activities between the hours of eight p.m. and six a.m. on weekdays and Friday commencing at eight p.m. through and including seven a.m. on Saturday; Saturdays commencing at eight p.m. through and including seven a.m. on the next following Sunday and on each Sunday after the hour of eight p.m. These hours correlate to the County Code exemption for construction noise. • Construction equipment noise shall be minimized during Project construction by muffling and shielding intakes and exhaust on construction equipment (per the manufacturer's specifications) and by shrouding or shielding impact tools; and • Construction contractors shall locate fixed construction equipment (such as compressors and generators) and construction staging areas as far as feasible from nearby sensitive receptors. 	During Construction	SAFCA	SAFCA		
<p>Mitigation Measure NOI-2: The SAFCA shall implement the following measures to respond to and track complaints pertaining to construction noise:</p> <ul style="list-style-type: none"> • Residents fronting the proposed construction site shall be noticed by mail at least 2 weeks prior to the commencement of construction activity in their area. • The designation of a construction complaint manager for the Proposed Project; and • A listing of telephone numbers to reach the construction complaint manager for the Proposed Project (during regular construction hours and off-hours). 	During Construction	SAFCA	SAFCA		
Traffic and Circulation					
<p>Mitigation Measure TRAF-1: Prior to construction activities, a pre-project survey of Project roadways shall be done by the construction contractor in coordination with the City or County to determine existing roadway conditions.</p>	Prior to Construction –	SAFCA	SAFCA/City/County		

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Mitigation Measure TRAF-2: A post-project survey of Project roadways shall be done by the construction contractor in coordination with the City or County to determine if any damage has occurred from construction activities. If so, the contractor shall be responsible for repairing the damage to the satisfaction of the City or County.	At Conclusion of Construction – repair road damage		SAFCA/City/County		
