

**MURPHY RANCH LITTLE LEAGUE BASEBALL FIELD LIGHTING PROJECT AT 7550 COLIMA ROAD  
MITIGATION MONITORING AND REPORTING PROGRAM**

**PROJECT FILE NO.:** PW 22-009

**APPLICANT:** City of Whittier Public Works Department  
13230 Penn Street  
Whittier, California 90602

**INTRODUCTION**

Section 21081.6 of the Public Resources Code requires a Lead Agency 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” (Mitigation Monitoring or Reporting, Section 15097 of the *CEQA Statute and Guidelines* provides additional direction on mitigation monitoring or reporting). The City of Whittier is the Lead Agency for the Murphy Ranch Little League Baseball Field Lighting Project (the “Project”). An Initial Study has been prepared to address the potential environmental impacts of the Project. Where appropriate, this environmental document identified project design features or recommended mitigation measures to avoid or to reduce potentially significant environmental impacts of the Project. This Mitigation Monitoring and Reporting Program (MMRP) is designed to monitor implementation of the mitigation measures identified for the Project. The MMRP is subject to review and approval by the Lead Agency as part of the adoption of the Mitigated Negative Declaration and approval of project conditions. The required mitigation measures are listed and categorized by impact area, as identified in the Initial Study, with an accompanying identification of the following:

- Monitoring Agency, the agency/department to which reports including feasibility, compliance, implementation, and development are made;
- Monitoring Timing, the phase of the project during which the mitigation measure shall be monitored:
  - Pre-Construction, including the design and plan check phases
  - Grading and Construction
  - Pre-Occupancy (prior to issuance of a Certificate of Occupancy)
  - Occupancy (post-construction); and,
- Enforcement Agency, the agency/department with the power to enforce the mitigation measure.

The Project Applicant shall be responsible for implementing all mitigation measures unless otherwise noted. The MMRP performance shall be monitored and reported annually to determine the effectiveness of the measures implemented in any given year and reevaluate the mitigation needs for the upcoming year.

**Table 1 Mitigation Monitoring and Reporting Program**

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<b>Aesthetics</b>				
<p><b>Mitigation Measure No. 1:</b> The baseball field lights shall be turned off at 10 pm. A dimmer switch shall be installed to allow the lights to be reduced to 50 percent of the full light intensity for ten minutes and further reduced to 30 percent for five minutes to allow players, parents and spectators to safely get to their cars before the lights are completely shut-off at 10:15 pm.</p>	Community Development Department/Public Works Departments	On-going during the life of the project	On-site inspection	
<b>Air Quality</b>				
<p><b>Mitigation Measure No. 2:</b> Prior to the start and throughout project construction, the contractor shall implement and maintain the following fugitive dust control measures:</p> <ul style="list-style-type: none"> <li>• Water exposed surfaces as needed to avoid visible dust leaving the construction site (typically 2-3 times/day).</li> <li>• Cover all stockpiles with tarps at the end of each day or as needed.</li> <li>• Provide water spray during loading and unloading of earthen materials.</li> <li>• Cover all trucks hauling dirt, sand, or loose material require all trucks to maintain at least two feet of freeboard.</li> <li>• Sweep streets if visible soil material is carried out from the construction site and spills onto the street.</li> </ul>	Community Development Department/Public Works Departments	Prior to the start of and throughout project construction	On- site inspection	
<b>Biological Resources</b>				
<p><b>Mitigation Measure No. 3:</b> Light Shielding – Prior to the operation of the baseball field lights full cutoff lighting fixtures shall be utilized. The fixtures shall be installed to provide shielding so that little or no light is emitted above the horizontal plane, and less than 10% of the light emitted is within 10 degrees below the horizontal plan (Longcore 2017). To the greatest extent possible, light shall be shielded to only cast upon the little league fields and no areas offsite, particularly offsite open space where wildlife may be affected.</p>	Community Development Department/Public Works Departments	Prior to the operation of the baseball field lights	On-site inspection	

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<p><b>Mitigation Measure No. 4:</b> To ensure minimal operational noise impacts to the open space adjacent to the site no public address system or any other noise equipment shall operate after 8pm.</p>	<p>Community Development Department/Public Works Departments</p>	<p>On-going during the life of the project</p>	<p>On-site inspection</p>	
<p><b>Mitigation Measure No. 5:</b> Preserve Native Vegetation – During construction all on-site native vegetation shall be preserved and maintained. If landscaping is required, all landscaping shall include predominantly drought tolerant native vegetation and avoid all non-native invasive species. The following website provides a list of all non-native invasive species that shall be avoided: California Invasive Plant Council Inventory - (<a href="https://www.cal-ipc.org/plants/inventory/">https://www.cal-ipc.org/plants/inventory/</a>).</p>	<p>Community Development Department/Public Works Departments</p>	<p>Prior to the start of and throughout project construction</p>	<p>On- site inspection</p>	
<p><b>Mitigation Measure No. 6:</b> Invasive Species Education and Control – Prior to the start of construction a biologist with knowledge of invasive plant species and invasive plant species control shall conduct a training program for all construction workers in proper invasive plant control when working on the site. Construction activities shall be conducted in a manner that prevents the introduction, transfer, and spread of aquatic, riparian, and terrestrial invasive plant species from one work site to another. Prior to entering the project area, construction crews shall inspect equipment for invasive plant species and, if any signs of invasive species are found, the equipment shall be cleaned to remove those species. All soil, seeds, or vegetative matter on all construction equipment brought to the project site shall be removed prior to entering the site and removed prior to exiting the work site and/or between each use in different watersheds. The contractor shall notify California Department of Fish and Wildlife (CDFW) immediately if an invasive species not previously known to occur within the work site is discovered during project construction.</p>	<p>Community Development Department/Public Works Departments</p>	<p>Prior to the start of construction</p>	<p>On- site meeting attendance</p>	
<p><b>Mitigation Measure No. 7:</b> Work Area Footprint – Throughout project construction personnel shall minimize the work area footprint and the duration of work at the work site. Construction personnel shall use existing paved roads to access the work area where present. Motor vehicles and construction equipment shall be</p>	<p>Community Development Department/Public Works Departments</p>	<p>Throughout project construction</p>	<p>On- site inspection</p>	

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stored and parked on pavement, existing roads, and previously disturbed areas.				
<b>Mitigation Measure No. 8:</b> Litter Control Program – Prior to and throughout project construction a litter control program shall be instituted for the entire project site. All workers shall ensure that their food scraps, paper wrappers, food containers, cans, bottles, and other trash are deposited in covered or closed trash and recycle containers. All garbage shall be removed from the project site at the end of each workday, and construction personnel shall not feed or otherwise attract wildlife to the project site.	Community Development Department/Public Works Departments	Prior to the start of and throughout project construction	On- site inspection	
<b>Mitigation Measure No. 9:</b> Wildlife avoidance – To avoid harm and harassment of native species, throughout project construction workers and visitors shall not bring pets onto the project site. Open fires (such as barbecues) shall be prohibited.	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	
<b>Mitigation Measure No. 10:</b> Construction Disturbance Minimization – As much as feasible throughout project construction all noise-generating equipment shall be located as far as possible from the environmentally sensitive habitat of the PHHPA adjacent to the project site and shut down when not in use.	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	
<b>Mitigation Measure No. 11:</b> Environmental Education – Prior to the start of construction a biologist with knowledge of mountain lions, Coastal California Gnatcatcher, Golden Eagle, and sensitive bats (collectively referred to as sensitive species) habitat shall conduct a training program for all construction personnel who would be working in close proximity to any potential mountain lion, Coastal California Gnatcatcher, Golden Eagle, or sensitive bat (collectively referred to as sensitive species) habitat. This training shall include information on the ecological significance and conservation status of the sensitive species, relevant mitigation measures, and safety protocols to follow in the event that a sensitive species is encountered on-site.	Community Development Department/Public Works Departments	Prior to the start of construction	On- site meeting attendance	
<b>Mitigation Measure No. 12:</b> Wildlife Injury and Mortality – If an accidental injury or death of a sensitive species occurs, workers shall immediately inform the approved	Community Development	Throughout project construction	On- site inspection	

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consulting city biologist or on-site monitor and site supervisor. The approved consulting biologist or on-site monitor shall notify the appropriate contact person at CDFW within 24 hours of the incident. A report shall be prepared and submitted to the City to provide the date and location of the incident, number of individuals taken, the circumstances resulting in the take, and any corrective measures taken to prevent additional take.	Department/Public Works Departments			
<b>Mitigation Measure No. 13:</b> If a sensitive species is observed on-site throughout project construction all activities as safely feasible shall cease until the individual has passively moved through the project site. The on-site project manager, CDFW and City shall be notified immediately for further consultation and proceedings to avoid disturbance, injury, or mortality.	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	
<p><b>Mitigation Measure No. 14:</b> Mountain Lion – Due to the cryptic nature of the species and the primarily nocturnal behavior, mountain lions tend to keep a safe distance from human activity and are rarely encountered by humans (Dickson et al. 2005). If a mountain lion is observed on the project site during construction hours the best course of action is to stay in groups and allow the feline to pass through the site unharmed. The following measures are also recommended in the event that a mountain lion is encountered on the site during construction:</p> <ul style="list-style-type: none"> <li>• No one shall perform work alone: crews shall always work and travel in groups.</li> <li>• Mountain lions shall not be approached: most mountain lions would try to avoid a confrontation and the mountain lion shall be provided a way to escape if enclosed on the project site.</li> <li>• No one shall run from a mountain lion: running may stimulate a mountain lion's instinct to chase. Instead, standing and facing the lion is recommended.</li> <li>• In the case of direct confrontation, it is recommended to make eye contact and avoid crouching down or bending over. Mountain lions do</li> </ul>	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	

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<p>not recognize standing humans as prey. However, a person squatting or bending over may resemble a four-legged prey animal.</p> <ul style="list-style-type: none"> <li>• It is recommended that an individual appear larger and intimidating when confronted by a lion. Useful techniques include extending the arms, opening a jacket, or throwing stones, branches, or whatever is within reach without crouching or turning away.</li> <li>• Speaking firmly in a loud voice and slowly waving the arms would also deter the mountain lion so that the lion does not mistake a person for prey and so that the lion recognizes that you may be a danger to it.</li> </ul>				
<p><b>Mitigation Measure No. 15:</b> Coastal California Gnatcatcher – If more than one-year lapses between when the Coastal California Gnatcatcher protocol-level surveys were conducted and construction starts protocol-level surveys shall be repeated prior to the start of construction.</p>	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	
<p><b>Mitigation Measure No. 16:</b> Nesting Birds - The following measures shall be implemented to mitigate potential impacts to nesting birds:</p> <ul style="list-style-type: none"> <li>• All necessary clearing and removal of vegetation for project construction shall be conducted outside of the typical nesting season for birds.</li> <li>• If any construction activities are scheduled to occur during the nesting bird season (February 1 through September 1), a qualified biologist shall conduct a survey to determine whether there are any active bird nests within 500 ft. of the project site.</li> <li>• The nesting bird survey shall occur no more than 7-days prior to the start of construction and include a search for nesting birds within 500 ft. of the project site.</li> <li>• If any active nests are observed, they should be avoided until after all young have fledged from the nest, or work shall be monitored by a biologist to ensure against negative impacts to nesting birds.</li> </ul>	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<p><b>Mitigation Measure No. 17:</b> Water Resources - The following measure shall be implemented is recommended to mitigate potential impacts to water resources to less than significant:</p> <ul style="list-style-type: none"> <li>Existing on-site vegetation shall be preserved and maintained to the maximum extent feasible to provide natural barriers to offsite transportation of sediments once construction is completed.</li> </ul>	Community Development Department/Public Works Departments	Throughout project construction	On- site inspection	
<b>Cultural Resources</b>				
<p><b>Mitigation Measure No. 18:</b> The City shall retain a qualified professional archaeologist who meets U.S. Secretary of the Interior's Professional Qualifications and Standards, to conduct an Archaeological Sensitivity Training for construction personnel prior to commencement of excavation activities. The training session shall be carried out by a cultural resource professional with expertise in archaeology, who meets the U.S. Secretary of the Interior's Professional Qualifications and Standards. The training session shall include a handout and focus on how to identify archaeological resources that may be encountered during earthmoving activities and the procedures to be followed in such an event, the duties of archaeological monitors, and the general steps a qualified professional archaeologist would follow in conducting a salvage investigation if one is necessary.</p>	Community Development Department/Public Works Departments	Prior to the start of construction	On- site meeting attendance	
<p><b>Mitigation Measure No. 19:</b> In the event that archaeological resources are unearthed during ground-disturbing activities, ground-disturbing activities shall be halted or diverted away from the vicinity of the find so that the find can be evaluated. A buffer area of at least 20 feet shall be established around the find where construction activities shall not be allowed to continue until a qualified archaeologist has examined the newly discovered artifact(s) and has evaluated the area of the find. Work shall be allowed to continue outside of the buffer area. All archaeological resources unearthed by project construction activities shall be evaluated by a qualified professional archaeologist, who meets the U.S.</p>	Community Development Department/Public Works Departments	Throughout project construction	Receipt of archaeological monitoring report upon project completion	

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<p>Secretary of the Interior’s Professional Qualifications and Standards. Should the newly discovered artifacts be determined to be prehistoric, Native American Tribes/Individuals shall be contacted and consulted, and Native American construction monitoring shall be initiated. The City shall coordinate with the archaeologist to develop an appropriate treatment plan for the resources. The plan may include implementation of archaeological data recovery excavations to address treatment of the resource along with subsequent laboratory processing and analysis.</p>				
<p><b>Mitigation Measure No. 20:</b> If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register, plans for the treatment, evaluation, and mitigation of impacts to the find would need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:</p> <ul style="list-style-type: none"> <li>• historic artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;</li> <li>• historic structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;</li> <li>• prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;</li> <li>• groundstone artifacts, including mortars, pestles, and grinding slabs;</li> <li>• dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;</li> </ul>	<p>Community Development Department/Public Works Departments</p>	<p>Throughout project construction</p>	<p>Receipt of archaeological monitoring report upon project completion</p>	
<p><b>Mitigation Measure No. 21:</b> The City shall retain a qualified professional archaeologist, who meets the U.S. Secretary of the Interior’s Professional Qualifications and Standards to conduct periodic Archaeological Spot Checks beginning at depths below 2’ feet to determine if construction excavations have exposed or have a high probability to expose archaeological resources. After the</p>	<p>Community Development Department/Public Works Departments</p>	<p>Throughout project construction</p>	<p>Receipt of archaeological monitoring report upon project completion</p>	



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<p>initial Archaeological Spot Check, further periodic checks shall be conducted at the discretion of the qualified archaeologist. If the qualified archaeologist determines that construction excavations have exposed or have a high probability to expose archaeological artifacts construction monitoring for Archaeological Resources shall be required. The project developer shall retain a qualified archaeological monitor, who would work under the guidance and direction of a professional archaeologist, who meets the qualifications set forth by the U.S. Secretary of the Interior's Professional Qualifications and Standards. The archaeological monitor shall be present during all construction excavations (e.g., grading, trenching, or clearing/grubbing) into non-fill younger Pleistocene alluvial sediments. Multiple earth-moving construction activities may require multiple archaeological monitors. The frequency of monitoring shall be based on the rate of excavation and grading activities, proximity to known archaeological resources, the materials being excavated (native versus artificial fill soils), and the depth of excavation, and if found, the abundance and type of archaeological resources encountered. Full-time monitoring can be reduced to part-time inspections if determined adequate by the project archaeologist.</p>				
<p><b>Mitigation Measure No. 22:</b> The archaeological monitor, under the direction of a qualified professional archaeologist who meets the U.S. Secretary of the Interior's Professional Qualifications and Standards, shall prepare a final report at the conclusion of archaeological monitoring. The report shall be submitted to the City, the South Central Coastal Information Center and representatives of other appropriate or concerned agencies to signify the satisfactory completion of the project and required mitigation measures. The report shall include a description of resources unearthed, if any, evaluation of the resources with respect to the California Register and CEQA, and treatment of the resources.</p>	<p>Planning Services Manager</p>	<p>Throughout project construction</p>	<p>Receipt of archaeological monitoring report upon project completion</p>	
<p><b><i>Tribal Cultural Resources</i></b></p>				

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<p><b>Mitigation Monitoring No. 23:</b> Prior to any ground disturbance for the proposed project, the City of Whittier shall ensure that the project applicant retains the services of a Tribal monitor approved by the Gabrieleño Band of Mission Indians-Kizh Nation for Native American monitoring during ground-disturbing activities. This provision shall be included on proposed project plans and specifications. Ground disturbing activities are defined by the Gabrieleño Band of Mission Indians-Kizh Nation as activities that may include, but are not limited to, pavement removal, pot-holing or augering, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the project area. The project site shall be made accessible to the monitor(s) provided adequate notice is given to the construction contractor and that a construction safety hazard does not occur. The monitor(s) shall be approved by the Gabrieleño Band of Mission Indians-Kizh Nation and shall be present on site during the construction phases that involve any ground-disturbing activities. The monitor(s) shall possess Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. In addition, the monitor(s) shall be required to provide insurance certificates, including liability insurance, for any tribal cultural resources and/or archaeological resource(s) encountered during grading and excavation activities pertinent to the provisions outlined in California Public Resources Code (PRC) Division 13, Section 21083.2 (a) through (k).</p> <p>If evidence of any tribal cultural resources is found during ground-disturbing activities, the monitor(s) shall have the capacity to halt construction in the immediate vicinity of the find to recover and/or determine the appropriate plan of recovery for the resource. The recovery process shall not unreasonably delay the construction process.</p> <p>Construction activity shall not be contingent on the presence or availability of a monitor, and construction may proceed regardless of whether or not a monitor</p>	<p>Community Development Department/Public Works Departments</p>	<p>Prior to the start of construction</p>	<p>Receipt of archaeological monitoring report upon project completion</p>	

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<p>is present on site. The monitor shall complete daily monitoring logs that would provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The on-site monitoring shall end when the project site grading and excavation activities are completed or when the monitor has indicated that the site has a low potential for tribal cultural resources and/or archaeological resources.</p>				
<p><b>Mitigation Monitoring No. 24:</b> All tribal cultural resources and/or archaeological resources unearthed by proposed project construction activities shall be evaluated by the qualified archaeologist and Native American monitor approved by the Gabrieleño Band of Mission Indians-Kizh Nation. Upon discovery of any archaeological resources, construction activities shall cease in the immediate vicinity of the find until the find can be assessed. Construction work shall be permitted to continue on other parts of the project site while evaluation and, if necessary, additional evaluation and/or preservation measures takes place CEQA Guidelines Section 15064.5(f). If the resources are Native American in origin, the Gabrieleño Band of Mission Indians-Kizh Nation shall coordinate with the landowner regarding treatment and curation of these resources. If a resource is determined by the qualified archaeologist to constitute a "historical resource" or "unique archaeological resource", time allotment and funding sufficient to allow for implementation of avoidance measures shall be made available through coordination between the Gabrieleño Band of Mission Indians-Kizh Nation and the project applicant. The treatment plan established for the resources shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources and California PRC Section 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) shall be the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource along with subsequent laboratory processing and analysis. Any</p>	<p>Planning Services Manager</p>	<p>Throughout project construction</p>	<p>Receipt of archaeological monitoring report upon project completion</p>	

Mitigation Measure	Party Responsible For Monitoring	Monitoring Timing	Method of Verification	Verified Date / Initials
<p>historic archaeological material that is not Native American in origin shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society in the area for educational purposes.</p>				