

Appendix G

Mitigation, Monitoring, and Reporting Program

Mitigation Monitoring and Reporting Program for the City of Poway Treated Water Facilities & Redundant Pipeline Project

The California Environmental Quality Act (CEQA) requires the adoption of feasible mitigation measures to reduce the severity and magnitude of potentially significant environmental impacts associated with project development. To ensure that the mitigation measures identified in a Mitigated Negative Declaration (MND) are implemented, the public agency adopts a program for monitoring and reporting the measures it has imposed to mitigate or avoid significant effects (CEQA Guidelines Section 15097[a]). The CEQA Guidelines require that a mitigation monitoring and reporting program (MMRP) be adopted at the same time that the MND is adopted (CEQA Guidelines Section 15074[d]).

According to Section 15097(c) of the CEQA Guidelines, reporting generally consists of a written compliance review that is presented to the decision-making body or authorized staff person. A report may be required at various stages during project implementation or upon completion of the mitigation measure. Monitoring is generally an ongoing or periodic process of project oversight.

The City of Poway (City) is responsible for the implementation and monitoring of the identified measures during design and construction of the City components of the City of Poway Treated Water Facilities & Redundant Pipeline Project (Project). As outlined below, certain measures would additionally be the responsibility of the San Diego County Water Authority (Water Authority) during design and construction of the Water Authority component of the Project, the POW-6 Flow Control Facility (FCF). Construction best management practices (BMPs) were incorporated into the Project to avoid potential environmental effects. These construction BMPs are provided in Table 1, *Construction Best Management Practices*, which identifies the following: (1) best management practice; (2) implementation timing; (3) implementation action; (4) responsible agency/party; and (5) verification date.

The MMRP is provided in Table 2, *Mitigation Monitoring and Reporting Program*, and identifies the party responsible for implementing the action, the timing for the implementation of each measure, a summary of the required actions, and the agencies or parties responsibility for implementing the mitigation efforts. The organization of the MMRP follows the subsection formatting style presented within the MND and Initial Study Environmental Checklist. Only those subsections of the environmental issues presented in the Initial Study Environmental Checklist that have mitigation measures are provided below in the MMRP (Table 2). All other subsections do not contain mitigation measures. For each mitigation measure, Table 2 identifies the following: (1) mitigation measure; (2) implementation timing; (3) implementation action; (4) responsible agency/party; and (5) verification date. The City or Water Authority may impose requirements for implementation of the measures on other parties responsible for constructing Project components, such as construction contractors, that require approval and/or oversight from the City or Water Authority. The City may also modify how it will implement a mitigation measure, as long as the alternative means of implementing the mitigation still achieves the same or greater attenuation of the impact.

**Table 1
CONSTRUCTION BEST MANAGEMENT PRACTICES**

Best Management Practices	Implementation Timing	Implementation Action	Responsibility	Compliance Verification		
				Initials	Date	Remarks
Air Quality						
Construction would implement standard dust control measures as required to comply with San Diego County Air Pollution Control District (SDAPCD) Rule 55, including watering two times daily during grading, ensuring that all exposed surfaces maintain a minimum soil moisture of 12 percent, and limiting vehicle speeds on unpaved roads to 15 miles per hour. All trucks hauling dirt, sand, soil, or other loose materials would be covered with a fabric cover and maintain a freeboard height of 12 inches.	During construction	<ul style="list-style-type: none"> Implement dust control measures. 	City/Water Authority; Construction Contractor			
Biological Resources						
During construction of the POW-6 FCF component, the Water Authority would implement the applicable standard measures provided in Section 6.4 of the Water Authority's Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP).	During construction of POW-6 FCF	<ul style="list-style-type: none"> Implement applicable standard minimization measures from NCCP/HCP Section 6.4. 	Water Authority; Construction Contractor			
Fire Safety						
<p>To minimize the risk of losses resulting from wildfire, the following measures would be implemented during construction of the Project:</p> <ul style="list-style-type: none"> Construction within areas of dense foliage during dry conditions will be avoided, when feasible. In cases where avoidance is not feasible, brush fire prevention and management practices will be incorporated. Specifics of the brush management program will be approved by the Fire Department and incorporated into Project construction documents. 	During construction	<ul style="list-style-type: none"> Avoid construction within areas of dense foliage during dry conditions. If not feasible, incorporate Fire Department-approved brush fire prevention and management practices. 	City/Water Authority; Construction Contractor			
Traffic Control Plan						
<p>A traffic control plan would be implemented as part of construction. The following traffic control criteria have been identified using local and regional standards:</p> <ul style="list-style-type: none"> Maintain a minimum of one travel lane open for vehicles in both directions along Espola Road. Maintain a minimum of one travel lane open for vehicles, with a flagman, along Lake Poway Road. Maintain access to bicyclists and pedestrians. Provide detour plans, as necessary. Provide detour plan to pedestrian facility closures. Provide access to all driveways. Provide equal consideration for vehicles, pedestrians, and bicyclists. Maintain safety for all workers, motorists, pedestrians, and bicyclists. 	Before construction; During construction	<ul style="list-style-type: none"> Prepare a traffic control plan meeting the outlined criteria. Implement the approved traffic control plan during construction. 	City/Water Authority; Construction Contractor			
Water Quality						
All Project construction activities would conform with applicable elements of the National Pollutant Discharge Elimination System (NPDES) Construction General Permit, including implementation of site-specific BMPs identified during the Stormwater Pollution Prevention Plan (SWPPP) preparation process for the Project.	During construction	<ul style="list-style-type: none"> Conform to the requirements of the NPDES Construction General Permit. 	City/Water Authority; Construction Contractor			

**Table 2
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measures	Implementation Timing	Implementation, Monitoring, and/or Reporting Action	Responsibility	Compliance Verification		
				Initials	Date	Remarks
Biological Resources						
<p>BIO-1: Coastal California Gnatcatcher Avoidance. Grading or clearing of vegetation within 300 feet of suitable coastal California gnatcatcher habitat during the gnatcatcher breeding season (February 15 through August 15) shall be avoided to the extent feasible. If clearing or grading would occur within 300 feet of suitable gnatcatcher habitat during the gnatcatcher breeding season, the following measures shall be implemented:</p> <ol style="list-style-type: none"> A Qualified Biologist (possessing a valid Endangered Species Act Section 10[a][1][A] Recovery Permit) shall conduct protocol surveys for coastal California gnatcatcher to determine whether gnatcatchers occur within 300 feet of the proposed work area(s). If no gnatcatchers are detected, grading and clearing shall be allowed to proceed. If protocol surveys are not conducted, gnatcatchers shall be presumed to be present, and the measures below shall be implemented. If gnatcatchers are detected, the Qualified Biologist will determine whether gnatcatchers are nesting within 300 feet of the proposed work area(s). If any gnatcatchers are observed nesting or displaying breeding/nesting behavior during the surveys, construction shall be postponed within 300 feet of any location at which gnatcatchers have been observed until a Qualified Biologist has determined that all nesting (or breeding/nesting behavior) has ceased or until after August 15. If construction activities within 300 feet of an active gnatcatcher nest location cannot be avoided, noise levels at the nest site shall be restricted to less than 60 dBA, or the ambient noise levels plus 3 dBA (perceptible change threshold), whichever is greater. Noise attenuation measures (e.g., noise walls, sound blankets, etc.) shall be implemented as determined necessary by a Qualified Noise Specialist and/or Biologist, to ensure that noise levels do not exceed the restricted threshold. 	<p>Prior to and during grading or clearing of vegetation (February 15 through August 15)</p>	<ul style="list-style-type: none"> Avoid grading or clearing of vegetation within 300 feet of suitable coastal California gnatcatcher habitat or conduct protocol surveys for coastal California gnatcatcher. If no gnatcatchers are detected, proceed with grading and clearing. If protocol surveys are not conducted or gnatcatchers are detected, postpone construction within 300 feet of gnatcatchers until nesting (or breeding/nesting behavior) has ceased, or until after August 15. If protocol surveys are not conducted or construction activities within 300 feet of an active nest location cannot be avoided, restrict noise levels at the nest site. 	<p>City; Construction Contractor; Qualified Biologist</p>			
<p>BIO-2: Least Bell's Vireo Avoidance. Grading or clearing of vegetation within 300 feet of suitable least Bell's vireo habitat during the vireo breeding season (March 15 through September 15) shall be avoided to the extent feasible. If clearing or grading would occur within 300 feet of suitable vireo habitat during the vireo breeding season, the following measures shall be implemented:</p> <ol style="list-style-type: none"> A Qualified Biologist shall conduct protocol surveys for least Bell's vireo to determine whether vireos occur within 300 feet of the proposed work area(s). If no vireos are detected, grading and clearing shall be allowed to proceed. If protocol surveys are not conducted, vireos shall be presumed to be present, and the measures below shall be implemented. If vireos are detected, the Qualified Biologist will determine whether vireos are nesting within 300 feet of the proposed work area(s). If any vireos are observed nesting or displaying breeding/nesting behavior during the surveys, construction shall be postponed within 300 feet of any location at which vireos have been observed until a Qualified Biologist has determined that all nesting (or breeding/nesting behavior) has ceased or until after September 15. If construction activities within 300 feet of an active vireo nest location cannot be avoided, noise levels at the nest site shall be restricted to less than 60 dBA, or the ambient noise levels plus 3 dBA (perceptible change threshold), whichever is greater. 	<p>Prior to and during grading or clearing of vegetation (March 15 through September 15)</p>	<ul style="list-style-type: none"> Avoid grading or clearing of vegetation within 300 feet of suitable least Bell's vireo habitat or conduct protocol surveys for least Bell's vireo. If no vireos are detected, proceed with grading and clearing. If protocol surveys are not conducted or vireos are detected, postpone construction within 300 feet of vireos until nesting (or breeding/nesting behavior) has ceased, or until after September 15. If protocol surveys are not conducted or if construction activities within 300 feet of an active vireo nest location cannot be avoided, restrict noise levels at the nest site. 	<p>City; Construction Contractor; Qualified Biologist</p>			

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Noise attenuation measures (e.g., noise walls, sound blankets, etc.) shall be implemented, as determined necessary by a Qualified Noise Specialist and/or Biologist, to ensure that noise levels do not exceed the restricted threshold.						
BIO-3: Nesting Bird Avoidance. Grubbing or clearing of vegetation during the general bird nesting season (January 15 through July 31 for raptors; February 15 through August 15 for upland species, and March 15 through September 15 for riparian species), will be avoided to the extent feasible. If grubbing, clearing, or grading is to occur during the bird nesting season, a pre-construction survey shall be conducted by a Qualified Biologist no more than five days prior to the commencement of the activities in areas supporting suitable habitat, to determine the presence or absence of nesting birds or raptors within the proposed area of disturbance. If it is determined at the completion of the pre-construction survey(s) that active nests are absent from the proposed area of disturbance, activities shall be allowed to proceed. If an active bird or raptor nest is confirmed to be present during the pre-construction survey, a nest avoidance buffer shall be established by the Qualified Biologist. Nest avoidance buffers shall be implemented as determined by conditions in the City of Poway Subarea Habitat Conservation Plan/Natural Communities Conservation Plan, as applicable, or by the Qualified Biologist/Environmental Surveyor if no defined buffer is specified. Construction activities shall avoid any active nests until a Qualified Biologist has verified that the young have fledged, or the nest has otherwise become inactive.	Prior to and during grubbing or clearing of vegetation (January 15 through September 15)	<ul style="list-style-type: none"> If grubbing, clearing, or grading is to occur during nesting season, conduct a pre-construction survey no more than five days before the start of activities in areas supporting suitable nesting habitat. If active nests are absent, proceed with construction. If an active bird or raptor nest is present, establish a nest avoidance buffer. Avoid active nests until a Qualified Biologist has verified that the young have fledged, or the nest is inactive. 	City; Construction Contractor; Qualified Biologist			
BIO-4: Habitat-Based Mitigation. Direct permanent impacts to 0.01 acre (440 SF) of Diegan coastal sage scrub (including disturbed) habitat outside of the Poway Mitigation Area shall be mitigated at a minimum 2:1 ratio in accordance with ratios provided in Section 7.4.3 of the Poway Subarea Habitat Conservation Plan/Natural Communities Conservation Plan for anticipated mitigation obligation of 0.02 acre. Mitigation shall consist of payment into the City of Poway's Mitigation Area Acquisition Fund.	Prior to issuance of grading permit	<ul style="list-style-type: none"> Provide payment into the City of Poway's Mitigation Area Acquisition Fund. 	City			
BIO-5: Temporary Construction Fencing. Prior to construction, to help ensure inadvertent impacts to environmentally sensitive areas outside of the approved impact footprint are avoided, temporary construction fencing, including silt fencing, as appropriate and where determined necessary by the SWPPP, shall be installed at the edges of the approved impact limits. Temporary fencing shall be installed at all locations where the Project components occur adjacent to riparian habitat, sensitive natural communities, and aquatic resources, including jurisdictional waters or wetlands. A Qualified Biologist shall monitor the installation of the temporary construction fencing wherever it would abut environmentally sensitive areas. Construction activities shall be restricted to areas within the approved impact limits at all times during construction.	Prior to construction; During construction	<ul style="list-style-type: none"> Install temporary construction fencing, including silt fencing at the edges of the approved impact limits. Restrict construction activities to areas within the approved impact limits. 	City; Construction Contractor; Qualified Biologist			
BIO-6: Biological Monitoring. A Qualified Biologist shall conduct a pre-construction environmental training session for construction personnel to inform them of the sensitive biological resources in the local area and the avoidance measures in place to remain in compliance with Project approvals and environmental permits and regulations. The biologist shall monitor all vegetation clearing and grubbing activities and monitor construction activities on a regular basis in the nest avoidance buffer (if established) and where temporary construction fencing has been installed adjacent to environmentally sensitive areas. The biologist shall have the authority to temporarily halt construction activities and make recommendations to help ensure impact minimization, compliance with the relevant provisions of all environmental permits and regulations, and that work does not take place in environmentally sensitive areas outside of approved work areas.	Prior to construction; During construction	<ul style="list-style-type: none"> Conduct a pre-construction environmental training session for construction personnel. Monitor all vegetation clearing and grubbing activities and monitor construction activities on a regular basis. Temporarily halt construction if necessary. 	City; Qualified Biologist			

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Cultural Resources						
<p>CUL-1: Archaeological and Native American Construction Monitoring Program. An archaeological resources monitoring program shall be implemented during Project construction and include the following:</p> <ol style="list-style-type: none"> 1. Prior to issuance of a Right-of-Way Permit, encroachment permit, or grading permit, a qualified archaeologist (Project archaeologist) shall be retained by the City to implement the monitoring program. 2. The Project archaeologist shall attend a pre-construction meeting with the contractors to explain and coordinate the requirements of the monitoring program. 3. The Project archaeologist shall direct the archaeological field monitor during all initial ground-disturbing activities, including brushing/grubbing, grading, excavation, trenching, etc. 4. Native American monitoring shall be required during initial ground-disturbing activities, unless the Project archaeologist and Native American monitor determine that the potential for cultural resources has been exhausted. The Native American monitor(s) will be directed by the Project archaeologist. 5. During initial ground-disturbing activities that disturb native soils, the archaeological monitor and Native American representative(s) shall be on site, as determined by the Project archaeologist, to perform inspections of the excavations. Full- or part-time inspections may be needed depending upon the rate of excavation, the materials excavated, and the presence and abundance of artifacts and features. Because the majority of the Project is in previously disturbed soil, the Project archaeologist, in conjunction with the Native American monitor(s), may determine that monitoring is no longer warranted due to the presence of modern fill or formational soils with no potential for cultural resources. The City shall be informed about such a determination and shall make the final determination on the necessity for additional monitoring. 6. Isolates and clearly non-significant deposits shall be minimally documented in the field and reburied on-site in an agreed upon location by the traditionally and culturally affiliated (TCA) Tribe, the Project archaeologist, and the archaeological and Native American monitors. After documentation and collection, the monitored ground-disturbing activities can proceed. 7. In the event that previously unidentified cultural resources are discovered, the archaeological and Native American monitors shall have the authority to divert or temporarily halt ground-disturbance activities in the area of discovery to allow for the evaluation of potentially significant cultural resources. The archaeological field monitor or Project archaeologist shall contact the City at the time of discovery. The Project archaeologist, in consultation with the City, shall determine the significance of the discovered resources. The City must concur with the evaluation and all treatment and mitigation activities must be completed before construction activities are allowed to resume in the affected area. If avoidance and preservation of significant cultural resources is infeasible, a Research Design and Data Recovery Program to mitigate impacts shall be prepared by the Project archaeologist and approved by the City before being carried out using professional archaeological methods. 8. If any human remains are discovered, all ground-disturbing activities at that location shall stop and the County of San Diego Coroner’s office and City shall be contacted. In the event that the remains are determined to be of Native American origin, the Most Likely 	<p>Prior to issuance of a Right-of-Way Permit, Encroachment Permit, or Grading Permit; During construction; After construction</p>	<ul style="list-style-type: none"> • Retain a Project archaeologist. • Project archaeologist attends pre-construction meeting. • Archaeological field monitor and Native American monitor shall observe initial ground-disturbing activities. • Determine when the potential for cultural resources has been exhausted and adjust monitoring schedule accordingly, after informing the City. • In the event of discoveries, divert or temporarily halt ground-disturbance activities in the area of discovery and contact the City to evaluate significance. If human remains are discovered, contact the County of San Diego Coroner’s office and City. • Document and rebury isolates and non-significant deposits on site. • Recover and record artifacts before resuming construction activity. • If avoidance and preservation of significant cultural resources is infeasible, prepare a Research Design and Data Recovery Program. • Repatriate collected tribal cultural resources to the Native American monitor(s)/representative(s). If declined, curate the collection at the San Diego Archaeological Center. • Prepare a post-construction monitoring report at the completion of construction and submit to the City. 	<p>City/Water Authority; Project archaeologist; Native American monitor</p>			

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<p>Descendant, as identified by the Native American Heritage Commission, shall be contacted in order to determine proper treatment and disposition of the remains.</p> <p>9. Before construction activities are allowed to resume in the location of any discovered significant cultural deposits, the artifacts shall be recovered and features recorded using professional archaeological methods. The archaeological monitor(s) shall determine the amount of material to be recovered for an adequate artifact sample for analysis.</p> <p>10. At the completion of the monitoring program, including the completion of any data recovery program activities, any tribal cultural resources collected by the qualified archaeologist shall be repatriated to the Native American monitor(s)/representative(s) for respectful and dignified treatment in accordance with the TCA Tribe’s cultural and spiritual traditions, which may include reburial within the Project location. Should the TCA Tribe or other traditionally and culturally affiliated tribe decline the collection, the collection shall be curated at the San Diego Archaeological Center. All other significant cultural resources determined by the qualified archaeologist, in consultation with the Native American monitor, to not be tribal cultural resources, shall be curated at the San Diego Archaeological Center.</p> <p>11. A report shall be completed at the completion of the Project construction describing the methods and results of the monitoring program and shall include California Department of Parks and Recreation Primary and Archaeological Site Forms for any newly discovered resources. If a Research Design and Data Recovery Program has been implemented for the treatment and mitigation of significant cultural resources, the report shall also include the field and analysis results and interpretation of the artifact and research data within the research context and design. The report shall be completed and submitted to the satisfaction of the City.</p>						

Geology

<p>GEO-1: Paleontological Monitoring. Prior to commencement of Project construction, a Qualified Paleontologist shall be retained by the City to attend the Project pre-construction meeting and discuss proposed grading plans with the Project contractor(s). If the Qualified Paleontologist determines that proposed grading/excavation activities would likely affect previously undisturbed areas of Pleistocene-age alluvial deposits as a result of cuts into native soils, then monitoring shall be conducted as outlined below.</p> <p>1. A Qualified Paleontologist or a Qualified Paleontological Monitor under the direction and supervision of a Qualified Paleontologist, shall be on site during original cutting of Pleistocene-age alluvial deposits. Monitoring of the noted geologic unit shall be conducted at least half-time at the beginning of excavation and may be either increased or decreased thereafter depending upon initial results (per direction of a Qualified Paleontologist). Qualified Paleontologist and Qualified Paleontological Monitor are defined as follows:</p> <p>a. Qualified Paleontologist: A Qualified Paleontologist is a person who has a Ph.D. or M.S. or equivalent in paleontology or closely related field (e.g., sedimentary or stratigraphic geology, evolutionary biology); has a demonstrated knowledge of Southern California paleontology and geology; and has documented experience performing professional paleontological procedures and techniques.</p> <p>b. Qualified Paleontological Monitor: A Qualified Paleontological Monitor is defined as an individual with at least one year of experience in field identification and collecting of fossil materials.</p>	<p>Prior to construction; During grading/excavation; After construction</p>	<ul style="list-style-type: none"> Retain a Qualified Paleontologist who participates in the pre-construction meeting. Conduct monitoring where the Qualified Paleontologist identifies potential effects to previously undisturbed areas of Pleistocene-age alluvial deposits. If well-preserved fossils are discovered, temporarily halt or redirect construction activities and clean, sort, catalog, and deposit collected fossil remains in an appropriate scientific institution. Prepare a post-construction monitoring report at the completion of construction and submit to the City. 	<p>City; Qualified Paleontologist; Qualified Paleontological Monitor</p>			
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Mitigation Measures	Implementation Timing	Implementation, Monitoring, and/or Reporting Action	Responsibility	Compliance Verification		
				Initials	Date	Remarks
<p>2. Monitoring of the noted geologic unit shall be conducted at least half-time at the beginning of the excavation and may be either increased or decreased thereafter by the Qualified Paleontologist depending upon initial results of monitoring.</p> <p>3. In the event that well-preserved fossils are discovered, the Qualified Paleontologist shall have the authority to temporarily halt or redirect construction activities in the discovery area to allow recovery in a timely manner (typically on the order of one hour to two days). All collected fossil remains shall be cleaned, sorted, cataloged, and deposited in an appropriate scientific institution (such as the San Diego Natural History Museum) at the expense of the City.</p> <p>4. A report (with a map showing fossil site locations) summarizing the results, analyses, and conclusions of the above-described monitoring/recovery program shall be filed with the City of Poway Planning Division within three months of terminating monitoring activities.</p>						
Hazards and Hazardous Materials						
<p>HAZ-1: Pump Station Demolition Asbestos Removal. Prior to the start of construction, the construction contractor shall demonstrate to the City that a firm licensed to remove and abate asbestos-containing materials has been retained to conduct pump station demolition activities. The contracted firm shall conduct all demolition activities where there is a potential for asbestos-containing materials to occur, as identified in the Phase I Environmental Site Assessment prepared for the pump station site, and shall demolish, handle, and dispose of all such materials in accordance with applicable regulations provided by U.S. Environmental Protection Agency, the Occupational Safety and Health Administration, California Division of Occupational Safety and Health, San Diego County Air Pollution Control District, and others.</p>	Prior to construction; During pump station demolition	<ul style="list-style-type: none"> Retain a contractor licensed to remove and abate asbestos-containing materials for pump station demolition activities. Demolish, handle, and dispose of hazardous materials in accordance with applicable regulations. 	City; Construction Contractor			
Noise						
<p>NOI-1: Construction Noise Barriers. For construction activities occurring at the pump station site, the contractor shall provide a minimum 8-foot-tall temporary noise barrier around the Project site between the construction activity and adjacent residential receptors to the north, west, and south. The barrier shall achieve a minimum noise level reduction of 10 dBA at the residential receptors. A temporary construction noise blanket with Noise Reduction Coefficient 0.95 rating is recommended to achieve this reduction, though use of the existing block wall to reduce noise to the south and west may also achieve the required reduction.</p>	During construction	<ul style="list-style-type: none"> Provide a minimum 8-foot-tall temporary noise barrier around the new pump station site between the construction area and residential receptors to the north, west, and south. 	City; Construction Contractor			
<p>NOI-2: Construction Notices. Construction contractors shall implement and provide evidence to the City of the following:</p> <ul style="list-style-type: none"> Signs shall be posted at the construction site that include permitted construction days and hours, a day and evening contact number for the job site, and a City contact number in the event of problems. An on-site complaint and enforcement manager shall respond to, and track, complaints and questions related to noise. 	Prior to construction	<ul style="list-style-type: none"> Post signs on the construction site stating construction hours and contacts. Designate an enforcement manager to respond to and track complaints and questions related to noise. 	City; Construction Contractor			
<p>NOI-3: Construction Equipment. To reduce noise impacts due to construction, construction contractors shall implement the following best management practices:</p> <ul style="list-style-type: none"> During construction, the contractor shall outfit all equipment, fixed or mobile, with properly operating and maintained exhaust and intake mufflers, consistent with manufacturers' standards. Impact tools (e.g., jack hammers, pavement breakers) used for construction shall be hydraulically or electrically powered wherever possible to avoid noise associated with 	During construction	<ul style="list-style-type: none"> Outfit all construction equipment with properly operating and maintained exhaust and intake mufflers or external jackets. Use hydraulically or electrically powered impact tools. If not feasible, use an exhaust muffler. 	City/Water Authority; Construction Contractor			

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<p>compressed air exhaust from pneumatically powered tools. Where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used. External jackets on the tools themselves shall be used where feasible.</p> <ul style="list-style-type: none"> Stationary construction noise sources that could affect adjacent receptors shall be located as far from adjacent receptors as possible. 		<ul style="list-style-type: none"> Locate stationary construction noise sources as far from adjacent receptors as feasible. 				
<p>NOI-4: Nighttime Construction. Prior to the initiation of construction activities outside of the hours of 7:00 a.m. to 5:00 p.m., the construction contractor shall obtain written approval from the City Engineer for the extended hours of construction in accordance with Poway Municipal Code Section 16.44.140. To reduce noise impacts during the short-term, nighttime hours of construction, construction contractors shall implement the following best management practices:</p> <ul style="list-style-type: none"> Schedule excavation and backfill during normal daytime hours (7:00 a.m. to 5:00 p.m.) where feasible to reduce/minimize the number of truck/backhoe operations occurring outside of these hours. Provide an 8-foot-tall acoustical barrier around all stationary noise generating equipment (e.g., generators, compressor, welding machine), expected to operate beyond normal daytime hours (outside of the hours between 7:00 a.m. and 5:00 p.m. on Mondays through Saturdays). The contractor and construction manager shall conduct a site meeting and walk through prior to 24-hour operations required for pipeline connection, with a special focus on noise considerations. Prior to other construction proposed outside the typically permitted hours of 7:00 a.m. to 5:00 p.m. on Mondays through Saturdays, a site meeting and walk through shall similarly be held. During nighttime construction hours (5:00 p.m. to 7:00 a.m.), the contractor shall monitor noise generating operations and sequence tasks to minimize noise impacts to residential receptors. 	<p>Prior to construction; During construction (construction activities outside of the hours of 7:00 a.m. to 5:00 p.m.)</p>	<ul style="list-style-type: none"> Obtain written approval from the City Engineer for construction activities outside of the hours of 7:00 a.m. to 5:00 p.m. Prioritize excavation and backfill between 7:00 a.m. and 5:00 p.m. as feasible. Provide an 8-foot-tall acoustical barrier around stationary noise generating equipment expected to operate during nighttime hours. Prior to 24-hour or nighttime construction, conduct a site meeting and walk through. During nighttime construction, monitor noise generating operations and stagger tasks. 	<p>City/Water Authority; Construction Contractor</p>			
<p>NOI-5: Pump Station Noise Limits. Noise control features shall be implemented with the operational components of the pump station such that hourly noise levels do not exceed 42.5 dBA L_{EQ} at residential property lines surrounding the Project site. The noise-attenuating features may include, but are not limited to, interior acoustical panels, generator silencers, acoustic louvers, higher Sound Transmission Class-rated doors or enclosures, or an exterior noise barrier. The design engineer shall provide evidence to the City that the pump station, with inclusion of noise-attenuating features, would achieve the applicable noise limit at adjacent residential property lines. The features required for noise attenuation shall be included on final construction plans prior to the City's issuance of permits for pump station building construction.</p>	<p>Prior to permit issuance</p>	<ul style="list-style-type: none"> Provide evidence to the City that the pump station incorporates noise attenuation features to achieve applicable noise limits. Incorporate noise attenuating features in construction plans 	<p>City; Construction Contractor/Design Engineer</p>			