



Mitigation Monitoring and Reporting Program
for the
North San Diego Water Reuse Coalition
Regional Recycled Water Project
Program Environmental Impact Report

SCH#: 2014081028

Prepared for:

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Chapter 1 Mitigation Monitoring and Reporting Program

Mitigation measures have been identified in the Program Environmental Impact Report (PEIR) for the North San Diego Water Reuse Coalition's (NSDWRC or Coalition) *Regional Recycled Water Project* (Proposed Project) to reduce the environmental impacts of the Proposed Project to less than significant levels where possible. The Coalition members and their contractors are required to implement the adopted mitigation measures for the Proposed Project in accordance with the PEIR. This Mitigation Monitoring and Reporting Program (MMRP) contains a checklist and description of all adopted mitigation measures, including, the responsible parties, timing, and completion criteria.

1.1 Program Administration

The MMRP will be administered, relative to each of their project components, by individual members of the Coalition, which consists of the following agencies:

1. Carlsbad Municipal Water District (Carlsbad MWD)
2. City of Escondido
3. City of Oceanside
4. Leucadia Wastewater District (Leucadia WWD)
5. Olivenhain Municipal Water District (Olivenhain MWD)
6. Rincon del Diablo Municipal Water District (Rincon del Diablo MWD)
7. San Elijo Joint Powers Authority (San Elijo JPA)
8. Santa Fe Irrigation District (Santa Fe ID)
9. Vallecitos Water District (Vallecitos WD)
10. Vista Irrigation District (Vista ID)

The funds for administration will be provided by the Coalition members. Certifications of compliance from other relevant agencies will be obtained prior to implementation. No authorization to commence any activity on site shall be granted except with the concurrence of the appropriate Coalition members.

1.2 Project Description

The proposed *Regional Recycled Water Project* (Proposed Project) would involve development of regional recycled water infrastructure to increase the capacity and connectivity of the recycled water storage and distribution systems of the Coalition members and maximize reuse of available wastewater supplies. The Proposed Project includes replacing potable water uses with recycled water components, converting facilities to recycled water service, connecting discrete recycled water systems to one another, increasing recycled water storage capacity, distributing recycled water to effectively meet recycled water demands, and implementing advanced water treatment to produce and use potable reuse water within the Study Area.

The Proposed Project is based upon information from the Coalition's *Regional Recycled Water Facilities Plan* (Facilities Plan; RMC 2012). Information from the Facilities Plan is currently being updated, and will be incorporated into a Feasibility Study, which will identify new local and regional recycled water project components that can provide additional recycled water supplies to the individual agencies that comprise the Coalition at a level beyond what they could supply and utilize individually. Information in the Feasibility Study will be consistent with information provided in this PEIR for the Proposed Project.

The facilities included within the Proposed Project include construction of infrastructure and operations necessary to connect projected water reuse supplies with demands in a manner that maximizes beneficial

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reuse of available supplies within the Study Area. As such, the Proposed Project is organized and discussed throughout this document based upon various groupings, which connect available supplies from existing and future reclamation and advanced water treatment facilities to anticipated demands within the service areas of the Coalition members. **Table 1** provides an overview of the groupings and which Coalition member either serves and/or delivers water reuse supply to each grouping.

1.3 Mitigation Monitoring Requirements

A mitigation monitoring checklist has been developed for the Proposed Project, and is intended for use by the Coalition members that will serve as lead agencies and designated monitoring entities for their individual components of the Proposed Project. The checklist, presented as **Table 2**, summarizes the mitigation requirements for the Proposed Project, and identifies the timing and responsible parties for ensuring implementation of each mitigation measure. These mitigation measures are presented using the naming conventions and categories in the PEIR.

Table 2 indicates the groupings to which each mitigation measure shall apply; the mitigation measures shall be implemented by individual Coalition members that will serve as lead agencies for the individual groupings. The Proposed Project includes activities for Coalition members that deliver water and for those that serve water (via water reclamation plants or facilities); mitigation measures may apply to both types of Coalition members. Project Groups include all above- and below-ground components (including, but not limited to, pipelines, storage facilities, pump stations, pressure reducing stations) except treatment plants.

Table 1: Short Term Project Components - Coalition Agency Roles and Responsibilities for Mitigation

Group	Coalition Member Responsible for Water Delivery	Coalition Member Responsible for Water Supply
A	Carlsbad Municipal Water District	Carlsbad Municipal Water District, Leucadia Wastewater District
C	City of Escondido	City of Escondido
D	City of Escondido	City of Escondido
E	San Elijo Joint Powers Authority	San Elijo Joint Powers Authority, Leucadia Wastewater District
G	City of Oceanside	City of Oceanside
H	Olivenhain Municipal Water District	San Elijo Joint Powers Authority, Leucadia Wastewater District
I	Rincon del Diablo Municipal Water District	City of Escondido
J	Rincon del Diablo Municipal Water District	Rincon del Diablo Municipal Water District
K	Santa Fe Irrigation District	San Elijo Joint Powers Authority, Leucadia Wastewater District
M	Vallecitos Water District	City of Escondido
N	Vallecitos Water District	Vallecitos Water District,
O	Vista Irrigation District	City of Oceanside, Carlsbad Municipal Water District

Table 2: Mitigation Monitoring and Reporting Program for NSDWRC Regional Recycled Water Project

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Aesthetics						
<p>Impact 3.1-1: Potential to have a substantial adverse effect on a scenic vista or scenic resources</p> <p>Impact 3.1-2: Potential for substantial degradation of existing visual character or quality of the project site and surrounding areas</p> <p>Impact 3.10-2: Potential to conflict with any applicable habitat conservation plan or natural community conservation plan</p> <p>Impact 3.15-1: Effects of project construction on recreation facilities</p>	<p>MM 3.1-1a: Restoration to Pre-construction Conditions. Coalition members shall require that their contractors restore disturbed areas associated with pipeline and associated below-ground facility installation to their pre-construction conditions, to the extent consistent with pipeline operations, so that short-term construction disturbance does not result in long-term impacts. Coalition members/ contractors will coordinate with relevant agencies for applicable project work.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group J: Rincon del Diablo MWD Group K: Santa Fe ID Group M: Vallecitos WD Group N: Vallecitos WD Group O: Vista ID 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm that measure is included in specifications</p> <p>2. Document restoration to pre-construction conditions.</p>	<p>1. Design</p> <p>2. Post-construction</p>	<p>1. _____</p> <p>2. _____</p>
<p>Impact 3.1-1: Potential to have a substantial adverse effect on a scenic vista or scenic resources</p> <p>Impact 3.1-2: Potential for substantial degradation of existing visual character or quality of the project site and surrounding areas</p> <p>Impact 3.1-3: Potential for new source of light or glare that would adversely affect views in the area</p> <p>Impact 3.10-1: Potential to conflict with applicable land use plans, policies or regulations adopted for the purpose of avoiding or mitigating an environmental effect</p> <p>Impact 3.15-1: Effects of project construction on recreation facilities</p>	<p>MM 3.1-1b: Screening Analysis and Mitigation for Protection of Scenic Resources. Upon formalization of proposed facility locations, Coalition members shall conduct an internal, preliminary screening analysis to determine if above-ground facilities would be located within designated scenic vistas and resources, within areas covered by special overlay zones, or within the jurisdiction of a Local Coastal Program (LCP). As applicable, project components shall be designed to be consistent with relevant LCPs, including aesthetic requirements. All new above-ground facilities shall be sited, to the extent feasible, outside viewshed corridors and visually sensitive areas. Structures shall be located on the least visible portion of the selected site, and shall be sited so as to preserve unique visual features. If any of the above-ground facilities would be located within a visually-sensitive area or have the ability to impact a visual or scenic resource, Coalition members shall design facilities consistent with local regulations, and provide documentation required by the regulations to the relevant jurisdiction for review and approval. As needed, the Coalition members shall work with staff of applicable jurisdictions to determine the appropriate location and sizing of facilities that would ensure consistency with visual and scenic-related requirements. If required by the applicable jurisdictions, the Coalition members shall also implement additional conditions to ensure compliance with requirements. These conditions may include, but not be limited to:</p> <ul style="list-style-type: none"> Where needed, standalone buildings shall be architecturally treated to have a house-like façade. For storage tanks, partially bury the tanks if possible, or construct a berm around the tanks if scenic resources could be affected. For all above-ground facilities, landscaping shall be installed as appropriate to screen facilities from surrounding neighborhoods, soften the overall appearance of the proposed facilities by adding natural elements to an otherwise man-made appearance, and improve the appearance of the facility with naturalistic plantings based on a native drought-tolerant plant palette, and to control erosion and restore areas affected by construction. 	<p>Coalition Members Responsible for Above-Ground Facilities in:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group J: Rincon del Diablo MWD Group K: Santa Fe ID Group M: Vallecitos WD Group N: Vallecitos WD Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> El Corazon Site: City of Oceanside San Luis Rey WWTP and AWT: City of Oceanside Carlsbad WRF: Carlsbad MWD Gafner WRF: Leucadia WWD Encina WPCF: Encina Wastewater Authority Meadowlark WRF and AWT: Vallecitos WD San Elijo WRF: San Elijo JPA HARRF: City of Escondido 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm that locations, sizes, colors, and design of above-ground facilities avoid or address potential aesthetic effects in contract documents</p> <p>2. Document coordination efforts with staff of applicable jurisdictions to determine appropriate location and sizing of facilities to meet visual and scenic requirements, as needed</p> <p>3. Confirm that additional compliance requirements are included in contract documents, if required by applicable jurisdictions</p>	<p>1. Design</p> <p>2. Design</p> <p>3. Design</p> <p>4. Construction and Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<ul style="list-style-type: none"> For all above-ground facilities, earth-tone colors that blend with the surrounding terrain shall be used. Deeper setbacks and/or height limitations, as appropriate. 	<ul style="list-style-type: none"> Escondido AWTF: City of Escondido Harmony Grove WRF: Rincon del Diablo 		4. Verify that visual and scenic compliance measures were implemented, as necessary		
Impact 3.1-3: Potential for new source of light or glare that would adversely affect views in the area	<p>MM 3.1-3: Minimize Light and Glare. Coalition members shall ensure that all permanent exterior lighting at the wastewater treatment plants and other above-ground facilities is directed downward and oriented to insure that no light source is directly visible from neighboring residential areas. Highly reflective building materials and/or finishes shall not be used in the designs for proposed structures, unless required by law or for public safety. In accordance with Mitigation Measure MM 3.1-1b above, landscaping or other aesthetic-preserving measures shall be implemented around proposed facilities if deemed necessary. If incorporated, vegetation shall be selected, placed, and maintained to minimize off-site light and glare onto surrounding areas.</p>	<p>Coalition Members Responsible for Above-Ground Facilities in:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group J: Rincon del Diablo MWD Group K: Santa Fe ID Group M: Vallecitos WD Group N: Vallecitos WD Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> El Corazon Site: City of Oceanside San Luis Rey WWTP and AWT: City of Oceanside Carlsbad WRF: Carlsbad MWD Gafner WRF: Leucadia WWD Encina WPCF: Encina Wastewater Authority Meadowlark WRF and AWT: Vallecitos WD San Elijo WRF: San Elijo JPA HARRF: City of Escondido Escondido AWTF: City of Escondido Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm that lighting measures are included in contract documents</p> <p>2. Verify that facilities are constructed as specified.</p>	<p>1. Design</p> <p>2. Construction</p>	<p>1. _____</p> <p>2. _____</p>
Air Quality						
Impact 3.3-2: Potential to violate any air quality standard or contribute substantially to an existing or projected air quality violation	<p>MM 3.3-2: Implementation of Practicable Air Pollution Control Measures. During design of all project components, the lead agency for each component shall complete an air quality assessment that determines project-level air emissions and identifies measures that could be incorporated into project operation and construction to minimize emissions to the extent practicable. Potential mitigation measures could</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA 	Same as Party Responsible for Implementation and Reporting	1. Complete an air quality assessment that determines project-level air emissions and	<p>1. Design</p> <p>2. Design</p> <p>3. Construction</p>	1. _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.3-3: Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under applicable ambient air quality standard</p> <p>Impact 3.3-4: Potential to expose sensitive receptors to substantial pollutant concentrations</p> <p>Impact 3.7-1: Potential to generate greenhouse gas emissions that may have a significant impact on the environment</p> <p>Impact 3.7-2: Potential to conflict with an applicable plan, policy, or regulation adopted for the purposes of reducing greenhouse gas emissions</p> <p>Impact 3.7-3: Result in a net increase of operational greenhouse gas emissions, either directly or indirectly, at a level exceeding 2,500 MT CO₂e per year</p>	<p>include control measures for PM10 (e.g., imposing speed limits on unpaved roads, covering haul trucks, limiting daily grading), control measures for NOx (e.g., grading or fuel use restrictions, using newer equipment), control measures for VOCs (e.g., use of VOC-free coatings, using VOC ERCs), or other control measures as appropriate. All project components shall implement air quality control measures to the extent practicable, even where such components do not individually violate air quality standards, due to the cumulative impact on air quality from the Proposed Project.</p>	<ul style="list-style-type: none"> • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>identifies measures to minimize emissions to the extent practicable</p> <p>2. Confirm that air quality measures identified in the project-level air-quality assessment are included in contract documents</p> <p>3. Monitor construction activities to verify that measures are implemented during construction.</p>		<p>2. _____</p> <p>3. _____</p>
<p>Impact 3.3-5: Incorporate Odor Control into Facility Design</p>	<p>MM 3.3-5: Incorporate Odor Control into Facility Design. Consideration of objectionable odors shall be incorporated into the design of treatment facilities and treatment facility expansions. Appropriate odor control measures shall be implemented for those treatment facilities located in close proximity to sensitive receptors, and residential and commercial areas, and that are found to be likely to produce objectionable odors during project-level CEQA review. Examples of odor control measures could include installation of odor-controlled ventilation systems and air filters, enclosing certain facilities within structures, use of closed systems, implementation of BMPs, or others, as appropriate and applicable.</p>	<p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Verify that design of treatment facilities includes odor controls, as appropriate</p> <p>2. Confirm that odor control measures are included in contract documents</p> <p>3. Verify that odor control measures were constructed as designed</p>	<p>1. Design</p> <p>2. Design</p> <p>3. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Biological Resources						
<p>Impact 3.4-1: Potential to have a substantial adverse effect on any species identified as a candidate, sensitive, or special status species.</p>	<p>MM 3.4-1a: Surveys and Mitigation for Sensitive Plant Species. Prior to the initiation of construction, the lead agency for that Project component shall conduct habitat assessments for sensitive plant species in areas of native habitat within construction zones, with focused surveys in areas where potentially suitable habitat for any species is identified. If the surveys determine the absence of sensitive plant species habitats or individuals, no further surveys or mitigation is required.</p> <p>In the event that any sensitive plant species are found on site and it is infeasible to avoid impacts that are determined to be significant, mitigation would be required. The significance of impacts shall be based on an assessment by a professional botanist familiar with the species based on the listing status of the species and the size and regional significance of the population(s) found. The mitigation shall consist of a minimum 1:1 ratio based on plant numbers or acreage occupied by the population, as deemed appropriate, pursuant to a Mitigation and Monitoring Plan (MMP) prepared by a professional botanist. The MMP shall be consistent with recommendations provided by the regulatory agency (CDFW and/or USFWS), professional restoration ecologists, and/or professional botanists familiar with the potentially impacted species. Specific measures to be included in the MMP shall include one or more of the following elements, as appropriate for the species and population size and the type of impacts (temporary or permanent):</p> <ul style="list-style-type: none"> • Restoration of sensitive plant species on the affected site if the area is only affected temporarily during construction; this may include the collection of seed, cuttings, or entire plants from the temporary impact area prior to construction to allow for transplantation post-construction. Seeds and cuttings may be propagated at an approved nursery or botanical garden prior to transplantation. • Protection of mitigation “set asides” and transplantation receiver site(s) as mitigation for permanent impacts, including the recordation of a conservation easement or deed restriction and related best management practices (BMPs) such as protective fencing; • The selection of a transplantation receiver site or sites as mitigation for permanent impacts. These sites shall be chosen with an emphasis placed on both ecological suitability to allow for maximum survival rate of transplants as well as the minimization of impacts to existing quality habitat; • Collection of seed, cuttings, or entire plants from permanent impact areas for transplantation at receiver or mitigation sites; and/or • Propagation of the seed or cuttings salvaged from permanent impact areas by an approved nursery or botanical garden for future transplantation to receiver or mitigation sites. <p>If applicable to the Coalition members, mitigation ratios shall be implemented in accordance with the County of San Diego Biological Mitigation Ordinance (BMO). Impacts to sensitive plant species would need to be evaluated for compliance with the County of San Diego BMO if they are permanent, located within the County of San Diego, and do not qualify for the exemptions listed within BMO Section 86.503. If applicable, mitigation ratios shall not exceed 20 percent of the population on-site. Mitigation for any impacts shall be required at a 1:1 to 3:1 ratio depending on the</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	<p>County of San Diego; CDFW; USFWS; Coalition Members Listed as Party Responsible for Implementation and Reporting</p>	<ol style="list-style-type: none"> 1. Confirm completion of habitat assessments for sensitive plant species 2. Confirm completion of sensitive plant surveys. 3. Document development of MMP by a qualified botanist consistent with recommendations from regulatory agency(ies), professional restoration ecologist(s), and/or professional botanist(s) familiar with the species, if sensitive species found on site and infeasible to avoid impacts 4. Verify that the MMP meets the required minimum mitigation ratio (if applicable) 5. Submit biological analysis for approval of mitigation ratios by County of San Diego, if applicable 6. Confirm that contract documents include monitor for construction activities to verify that measures are 	<ol style="list-style-type: none"> 1. Pre-construction 2. Pre-construction 3. Pre-construction 4. Pre-construction 5. Pre-construction 6. Pre-construction 7. Construction 8. Post-construction 9. Post-construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____

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	<p>sensitivity of the species and population size, as determined in a biological analysis approved by the County of San Diego Director. For impacts to sensitive plant species in Groups C and D on the County of San Diego Sensitive Plant List, mitigation shall also be in-kind at a ratio based on the sensitivity of the species and population size, as determined in a biological analysis approved by the County of San Diego Director.</p>			<p>implemented during construction.</p> <p>7. Document monitoring during construction.</p> <p>8. Document implementation of compensation plan if botanist determines plants were affected</p> <p>9. Monitor success of plantings, if needed.</p>		
<p>Impact 3.4-1: Potential to have a substantial adverse effect on any species identified as a candidate, sensitive, or special status species.</p>	<p>MM 3.4-1b: Surveys and Mitigation for Sensitive Wildlife Species. Prior to the initiation of construction, the lead agency for that Project component shall conduct habitat assessments for sensitive wildlife species in areas of native habitat within construction zones, with focused surveys in areas where potentially suitable habitat for any species is identified (including but not limited to the coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, and burrowing owl). Focused surveys shall be conducted by a qualified biologist(s) possessing valid permits as necessary, such as an Endangered Species Act Section 10(a)(1)(A) Recovery Permit (herein referred to as a USFWS permitted biologist), and following the required agency approved survey protocols. If the surveys determine the absence of sensitive wildlife species habitats or individuals, no further surveys or mitigation is required.</p> <p>In the event that sensitive wildlife species are found on site and/or Critical Habitat for a sensitive species is mapped, and it is infeasible to avoid impacts, mitigation may be required. Authorization for impacts to federally-listed species (incidental take) or Critical Habitats would require a FESA Section 7 Consultation (if a federal nexus is established from an "agency action") or a Section 10(a) Habitat Conservation Plan (HCP) (in the absence of a federal nexus) through the USFWS. The Section 7 process requires a Biological Assessment and consultation with the USFWS, which would issue a Biological Opinion. USFWS may consider informal consultation for minimal or temporary impacts.</p> <p>During consultation, the USFWS would gather all relevant information concerning the Proposed Project and the potential project-related impacts on the species (i.e., the project applicant would submit a species-specific Biological Assessment), prepare its opinion with respect to whether the project is likely to jeopardize the continued existence of the species (i.e., the USFWS would issue a Biological Opinion), and recommend mitigation/conservation measures where appropriate. Additionally, the need for state regulatory permits (i.e., Fish and Wildlife Code Section 1602 Streambed Alteration Agreement issued by the CDFW) would require either a Consistency Determination or Incidental Take Permit from the CDFW for state-listed species, such as least Bell's vireo, under CESA.</p> <p>If coastal California gnatcatcher, least Bell's vireo, burrowing owl, or Stephen's kangaroo rat are found to occupy the site, one or more of the measures outlined below shall be incorporated into the project dependent on USFWS and/or CDFW approval. Avoidance measures shall also be incorporated to avoid impacts from construction</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido 	<ol style="list-style-type: none"> 1. USFWS 2. CDFW 3. Coalition Members Listed as Party Responsible for Implementation and Reporting 	<ol style="list-style-type: none"> 1. Confirm completion of surveys. 2. Confirm that locations of facilities avoid sensitive habitats to the extent feasible. 3. Confirm that if coastal California gnatcatcher, least Bell's vireo, burrowing owl, or Stephens' kangaroo rat are found to occupy a site that measures are implemented as outlined and in consultation with USFWS and CDFW. 4. Monitor construction activities to verify that other measures are implemented during construction. 5. Verify submittal of relevant reports to regulating agencies. 6. Monitor long-term management of 	<ol style="list-style-type: none"> 1. Design 2. Pre-construction 3. Construction 4. Construction 5. Construction 6. Post-construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____

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	<p>adjacent to any occupied areas. The proposed measures may be refined during the USFWS consultation process, if required.</p> <p>Coastal California Gnatcatcher (CAGN)</p> <ul style="list-style-type: none"> • Avoid CAGN occupied habitat to the greatest extent feasible and preserve any mitigation areas in-perpetuity, as appropriate (see Mitigation Measure MM 3.4-2 below). • Mitigate for any impacts to CAGN occupied habitat at a minimum 1:1 ratio of habitat restoration or creation either on site and/or off site on land acquired for the purpose of mitigation, or through the purchase of mitigation credits at an agency approved mitigation bank. Purchase of any mitigation credits shall occur prior to any habitat removal. Mitigation on land acquired for mitigation shall include the preservation, creation, restoration, and/or enhancement of similar habitat pursuant to a Habitat Mitigation and Monitoring Plan (HMMP). The HMMP shall be prepared prior to any impacts to the habitat, and shall provide details as to the implementation of the mitigation, maintenance, and future monitoring. The goal of the mitigation shall be to preserve, create, restore, and/or enhance similar habitat with equal or greater function and value than the impacted habitat. • Provide long-term management of mitigation habitat, if appropriate. • Avoid direct mortality of individual CAGN during construction by: <ul style="list-style-type: none"> ○ Removing any vegetation within CAGN occupied habitat outside the breeding season (the breeding season is February 15 to August 31) to the greatest extent feasible; and ○ Monitoring by a qualified biologist during vegetation removal to flush out any non-breeding birds away from the clearing activities. • Avoid indirect impacts to CAGN including noise impacts during construction and edge effects post-construction, by implementing measures to buffer and avoid human-wildlife conflicts as appropriate. Proposed measures are as follows: <p><i>During Construction</i></p> <ul style="list-style-type: none"> ○ Construction noise shall not exceed 60 dB(A) Leq in avoided occupied coastal California gnatcatcher habitat between February 15 and August 31 unless noise attenuation measures are implemented to reduce noise levels below this level, or the USFWS approves noise levels above this threshold. Noise attenuation measures may include, but are not limited to, establishing construction set-back buffers, equipment noise mufflers, and noise walls, as determined necessary by an acoustic specialist and in consultation with the project biologist. Monitoring by a qualified biologist shall also occur during construction to ensure noise levels are maintained below the threshold. Alternatively, construction noise levels above 60 dB(A) Leq may be approved by USFWS if monitoring by a USFWS permitted biologist for this species determines that the construction noise is not impacting the expected breeding behavior of the birds. <p><i>Post Construction</i></p> <ul style="list-style-type: none"> ○ Restricting access to any native habitat areas adjacent to new above-ground facilities, such as tanks, for example through installation of a fence around the perimeter and/or signs. 			mitigation habitat, if appropriate.		

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	<ul style="list-style-type: none"> ○ Direction of all night lighting associated with new above-ground facilities away from adjacent habitat. ○ Implementation of an awareness program to educate the occupants/employees of new above-ground facilities about the conservation values associated with any adjacent habitat areas. <p>Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-Billed Cuckoo</p> <ul style="list-style-type: none"> ● Avoid occupied habitat to the greatest extent feasible and preserve any mitigation areas in-perpetuity, as appropriate (see Mitigation Measure MM 3.4-2 below). ● Mitigate for any impacts to occupied habitat at a minimum 1:1 ratio of habitat restoration or creation either on site and/or off site on land acquired for the purpose of mitigation, or through the purchase of mitigation credits at an agency approved mitigation bank. Purchase of any mitigation credits shall occur prior to any habitat removal. Mitigation on land acquired for mitigation shall include the preservation, creation, restoration, and/or enhancement of similar habitat pursuant to a Habitat Mitigation and Monitoring Plan (HMMP). The HMMP shall be prepared prior to any impacts to the habitat, and shall provide details as to the implementation of the mitigation, maintenance, and future monitoring. The goal of the mitigation shall be to preserve, create, restore, and/or enhance similar habitat with equal or greater function and value than the impacted habitat. ● Provide long-term management of mitigation habitat, if appropriate. ● Avoid direct mortality of individual Least Bell's Vireo, Southwestern Willow Flycatcher, or Western Yellow-Billed Cuckoo during construction by: <ul style="list-style-type: none"> ○ Removing any vegetation within occupied habitat outside the breeding season (the breeding season is March 15 to September 15); and ○ Monitoring by a qualified biologist during construction in adjacent areas to avoid inadvertent removal of occupied habitat. ● Avoid indirect impacts to Least Bell's Vireo, Southwestern Willow Flycatcher, or Western Yellow-Billed Cuckoo including noise impacts during construction by implementing the following proposed measures: <ul style="list-style-type: none"> ○ Construction limits in and around potential habitat shall be delineated with flags and fencing prior to the initiation of any grading or construction activities. ○ Prior to grading and construction a training program shall be developed and implemented to inform all workers on the project about listed species, sensitive habitats, and the importance of complying with avoidance and minimization measures. ○ All construction work shall occur during the daylight hours. The construction contractor shall limit all construction-related activities that would result in high noise levels according to the construction hours determined by the City. ○ During all excavation and grading on site, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards to reduce construction equipment noise to the maximum extent possible. The 					

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>construction contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors (i.e., territory for Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-Billed Cuckoo) nearest the project site.</p> <ul style="list-style-type: none"> ○ The construction contractor shall stage equipment in areas that will create the greatest distance between construction-related noise sources and noise sensitive receptors nearest the project site during all project construction. ○ Noise from construction activities shall be limited to the extent possible through the maximum use of technology available to reduce construction equipment noise. Project-generated noise, both during construction and after the development has been completed, shall be in compliance with the requirements outlined in any local noise regulations to ensure that noise levels that the riparian area is exposed to do not exceed noise standards for residential areas. ○ The project shall be designed to minimize exterior night lighting while remaining compliant with local ordinances related to street lighting. Any necessary lighting (e.g., to light up equipment for security measures), both during construction and after construction has been completed, will be shielded or directed away from the nesting area and are not to exceed 0.5 foot-candles. Monitoring by a qualified lighting engineer (attained by the lead agency for that project component) shall be conducted as needed to verify light levels are below 0.5 foot-candles required within identified, occupied least Bell's vireo territories, both during construction and at the onset of operations. If the 0.5 foot-candles requirement is exceeded, the lighting engineer shall make operational changes and/or install a barrier to alleviate light levels during the breeding season. <p>Burrowing Owl</p> <ul style="list-style-type: none"> • Focused surveys for burrowing owl shall be conducted during the breeding season by a qualified biologist with experience conducting burrowing owl surveys, prior to vegetation clearing or ground disturbing activities. Surveys shall be conducted in suitable habitat as determined by the qualified biologist based on a field assessment of site conditions at the time of the survey, including habitats such as the ruderal and non-native grassland plant communities. The survey methodology shall follow the protocol provided as Appendix D of the Staff Report on Burrowing Owl Mitigation published by the California Department of Fish and Wildlife (March 7, 2012). Pursuant to this protocol four survey visits are required, including at least one site visit between February 15 and April 15, and a minimum of three survey visits at least three weeks apart between April 15 and July 15 (with at least one visit after June 15). The results of the focused surveys are typically considered valid for one year after completion. • If burrowing owls are determined present following focused surveys, occupied burrows shall be avoided to the greatest extent feasible, following the guidelines in the 2012 Staff Report on Burrowing Owl Mitigation including, but not limited to, conducting pre-construction surveys, avoiding occupied burrows during the nesting and non-breeding seasons, implementing a worker awareness program, biological monitoring, establishing avoidance buffers, and flagging burrows for avoidance with visible markers. If occupied burrows cannot be avoided, 					

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>acceptable methods may be used to exclude burrowing owl either temporarily or permanently, pursuant to a Burrowing Owl Exclusion Plan that shall be prepared and approved by CDFW. The Burrowing Owl Exclusion Plan shall be prepared in accordance with the guidelines in the Staff Report on Burrowing Owl Mitigation. Habitat mitigation pursuant to the MSCP shall also be provided for occupied habitats subject to the approval of the implementing agency, at a minimum 1:1 ratio.</p> <p>Stephen's Kangaroo Rat and Other Sensitive Small Mammal Species</p> <ul style="list-style-type: none"> Avoid occupied or suitable habitat to the greatest extent feasible and preserve any mitigation areas in perpetuity, as appropriate (see Mitigation Measure MM 3.4-2 below)). Mitigate for any impacts to occupied habitat at a minimum 2:1 ratio of habitat restoration or creation either on site and/or off site on land acquired for the purpose of mitigation, or through the purchase of mitigation credits at an agency approved mitigation bank. Purchase of any mitigation credits shall occur prior to any habitat removal. Mitigation on land acquired for mitigation shall include the preservation, creation, restoration, and/or enhancement of similar habitat pursuant to a Habitat Mitigation and Monitoring Plan (HMMP). The HMMP shall be prepared prior to any impacts to the habitat, and shall provide details as to the implementation of the mitigation, maintenance, and future monitoring. The goal of the mitigation shall be to preserve, create, restore, and/or enhance similar habitat with equal or greater function and value than the impacted habitat. Provide long-term management of mitigation habitat. Avoid direct mortality of individual sensitive small mammals during construction by: <ul style="list-style-type: none"> Installation of exclusionary fencing at the limits of construction within suitable habitat areas; and Live-trapping within suitable habitat in construction areas and the relocation of trapped individuals to one or more biologically appropriate receiver sites (defined as suitable habitat that is known to be unoccupied, is below population carrying capacity levels, and/or where scrub vegetation has been restored and colonization by the species has not occurred). Trapping shall be conducted by a USFWS permitted or approved biologist. Avoid indirect impacts as a result of edge effects post-construction for new above-ground facilities adjacent to suitable habitat areas by implementing measures to buffer and avoid human-wildlife conflicts as appropriate, such as installation of fencing or signage to restrict access, shielding night lighting away from the habitat areas, and educating the occupants/employees of the facilities as to the conservation value of the habitat areas. 					
Impact 3.4-2: Potential to have a substantial adverse effect on any riparian habitat or other sensitive natural community	MM 3.4-2: Native Habitat Compensation. Prior to the issuance of any grading permit in areas determined to support sensitive habitat communities, the lead agency for that Project component shall conduct a field assessment to confirm the presence/absence and extent of the communities. If sensitive plant communities are present and impacts to sensitive plant communities cannot be avoided, a Mitigation and Monitoring Plan (MMP) shall be prepared to offset impacts to those sensitive plant communities. The MMP shall focus on the restoration of equivalent habitat (for temporary impacts) or the	Coalition Members Responsible for: <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD 	Same as Party Responsible for Implementation and Reporting	1. Confirm completion of surveys, if grading permits will be required in sensitive habitat.	1. Pre-construction 2. Pre-construction 3. Pre-construction	1. _____ 2. _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.4-6: Potential to conflict with an adopted or approved habitat conservation plan</p> <p>Impact 3.10-2: Potential to conflict with any applicable habitat conservation plan or natural community conservation plan</p>	<p>restoration, enhancement or creation of equivalent habitats outside the impact area (for permanent impacts). In addition, the MMP shall provide details as to the implementation of the mitigation, maintenance, and future monitoring. Mitigation for impacts shall be offset in one or more of the following ways:</p> <ul style="list-style-type: none"> • Transplantation of the plant community species, • Seeding of the plant community species, • Planting of container plants of the plant community species, and/or • Salvage of duff and seed bank and subsequent dispersal • Off-site preservation at an established mitigation bank or other area dedicated for conservation. <p>Mitigation ratios shall be 1:1 for temporary impacts by restoring to pre-project conditions. Ratios for permanent impacts shall be consistent with MSCP and MHCP ratios as outlined below for areas within approved subarea plans. For areas outside approved subarea plans, sensitive communities requiring mitigation would be those identified by CDFW as 'high priority'.¹ Mitigation for CDFW high priority communities shall be at a minimum 1:1 ratio for sensitive upland plant communities (the ratio of mitigation for upland plant communities would be subject to approval by CDFW and/or USFWS if occupied by sensitive species) and at a minimum 2:1 ratio for sensitive riparian and wetland communities (the ratio of mitigation for riparian and wetland communities proposed for impacts within areas under the jurisdiction of CDFW, USACE and/or RWQCB would be subject to approval by the regulatory agencies during the permitting process). If applicable to the Coalition members, mitigation ratios shall be consistent with MSCP and MHCP as follows:</p> <p><u>Draft North County MSCP</u></p> <p>The North County MSCP subarea plan is in draft form, negotiations are ongoing and final approval is pending at this time. In its current draft, the mitigation requirements apply to both lands mapped as Pre-Approved Mitigation Areas (PAMA) and outside PAMA areas. The land conservation categories and mitigation ratios are provided below, and are subject to change in the final plan document.</p> <p>Land conservation categories:</p> <ul style="list-style-type: none"> • Pre-Approved Mitigation Area (PAMA) • Outside PAMA • Pre-negotiated (Hardlined) Take Authorized Areas • Preserve Areas • Special Districts 	<ul style="list-style-type: none"> • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>2. Confirm completion of MMP, if needed.</p> <p>3. Verification that MMP contains mitigation ratios consistent with MSCP, MHCP, and/or approved by CDFW, USFWS, USACE, and/or RWQCB, as applicable</p> <p>4. Document implementation of MMP, if needed.</p> <p>5. Monitor success of plantings, if needed.</p>	<p>4. Construction</p> <p>5. Post-construction (5 years of monitoring after plant populations are established)</p>	<p>3. _____</p> <p>4. _____</p>

¹ http://www.dfg.ca.gov/biogeodata/vegcamp/natural_communities.asp

	<p>Mitigation Ratios:</p> <table border="1"> <thead> <tr> <th>Habitat Tier</th> <th>Impacted land within the PAMA</th> <th>Impacted land outside the PAMA</th> </tr> </thead> <tbody> <tr> <td>Tier I¹</td> <td>2:1</td> <td>1:1</td> </tr> <tr> <td>Tier II²</td> <td>1:1.5</td> <td>1:1</td> </tr> <tr> <td>Tier III³</td> <td>1:1</td> <td>0.5:1</td> </tr> </tbody> </table> <p>¹ For plant communities identified within the Biological Areas, Tier I includes Freshwater marsh, southern maritime chaparral, southern willow scrub, and coast live oak woodland.</p> <p>² For plant communities identified within the Biological Areas, Tier II includes Diegan coastal sage scrub, Diegan coastal sage scrub: Baccharis dominated, chamise chaparral</p> <p>³ For plant communities identified within the Biological Areas, Tier III includes northern mixed chaparral and non-native (annual) grassland – Tier III</p> <p><u>South County MSCP Conserved Plant Communities</u></p> <p>The South County MSCP plan is approved and being implemented at this time. The required mitigation ratios for each habitat tier under this plan are provided below and apply to areas that meet the criteria for biological resource core areas (including but not limited to PAMAs identified for conservation, major and minor amendment areas for which specific conservation lands have not yet been identified, wildlife linkages/corridors, lands that contain a high number of sensitive species, and so on (see comprehensive list in Sec. 86.506 of the BMO)).</p> <table border="1"> <thead> <tr> <th>Tier 1</th> <th colspan="2">Impacted Land</th> </tr> <tr> <td>Conserved Land</td> <td>Meets criteria for biological resource core area</td> <td>Does not meet criteria for biological resource core area</td> </tr> </thead> <tbody> <tr> <td>Meets criteria for biological resource core area*</td> <td>2:1</td> <td>1:1</td> </tr> <tr> <td>Does not meet criteria for biological resource core area</td> <td>3:1</td> <td>2:1</td> </tr> </tbody> </table> <p>Note: For plant communities identified within the Biological Areas, Tier 1 includes fresh water marsh, southern maritime chaparral, southern willow scrub and coast live oak woodland. Fresh water march and southern maritime chaparral required in-kind mitigation.</p> <table border="1"> <thead> <tr> <th>Tier 2</th> <th colspan="2">Impacted Land</th> </tr> <tr> <td>Conserved Land</td> <td>Meets criteria for biological resource core area</td> <td>Does not meet criteria for biological resource core area</td> </tr> </thead> <tbody> <tr> <td>Meets criteria for biological resource core area*</td> <td>1.5:1</td> <td>1:1</td> </tr> <tr> <td>Does not meet criteria for biological resource core area</td> <td>2:1</td> <td>1.5:1</td> </tr> </tbody> </table> <p>Note: For plant communities identified within the Biological Areas, Tier 2 includes Diegan coastal sage scrub, Diegan coastal sage scrub: Baccharis dominated, and chamise chaparral.</p>	Habitat Tier	Impacted land within the PAMA	Impacted land outside the PAMA	Tier I ¹	2:1	1:1	Tier II ²	1:1.5	1:1	Tier III ³	1:1	0.5:1	Tier 1	Impacted Land		Conserved Land	Meets criteria for biological resource core area	Does not meet criteria for biological resource core area	Meets criteria for biological resource core area*	2:1	1:1	Does not meet criteria for biological resource core area	3:1	2:1	Tier 2	Impacted Land		Conserved Land	Meets criteria for biological resource core area	Does not meet criteria for biological resource core area	Meets criteria for biological resource core area*	1.5:1	1:1	Does not meet criteria for biological resource core area	2:1	1.5:1					
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	Meets criteria for biological resource core area	Does not meet criteria for biological resource core area
Conserved Land		
Meets criteria for biological resource core area*	2:1	1:1
Does not meet criteria for biological resource core area	3:1	2:1
<p>Note: For plant communities identified within the Biological Areas, Tier 3 includes northern mixed chaparral and non-native (annual) grassland. Non-native (annual) grassland requires mitigation at a 0.5:1 ratio.</p> <p>*Biological resource areas are defined in the County's Biological Mitigation Ordinance.</p> <p><u>MHCP Conserved Plant Communities</u> The MHCP Plan is approved and being implemented at this time. The required mitigation ratios for unavoidable impacts to each habitat category under this plan are pursuant to specific mitigation criteria defined in the subarea plans, but shall be at ratios no less than those provided below. For impacts to Category A communities, mitigation shall consist of restoration or creation of new habitat areas to meet the "no net loss" goal. It is assumed that restored or new areas would not displace nor convert other natural habitat areas to wetland vegetation, but would replace disturbed or non-habitat areas. Restored habitat areas are assumed to be in-kind and located in an FPA, generally in the same watershed and in the relative vicinity of the impacted habitat. For impacts to Category B, C, D, and E communities, mitigation shall consist of permanent conservation of habitat in an FPA. In some cases, habitat creation or restoration may also qualify as mitigation. For Category B communities, restored or conserved habitat will be in-kind. For Category C, D and E, conserved habitat may be out-of-kind, if the conserved habitat is located in an FPA, or outside an FPA, if it is shown to be a viable addition to the regional preserve system.</p>		
Habitat Category	Location of Impacted Habitat	
	Inside FPA ¹	Outside FPA
Category A: Wetland/Riparian Coastal salt marsh, alkali marsh, freshwater marsh, estuarine, salt pan/mudflats, riparian forest, riparian woodland, riparian scrub, vernal pool, disturbed wetland, flood channel, or fresh water	No net loss – see table below	
Category B: Rare Upland Beach, southern coastal bluff scrub, maritime succulent scrub, southern maritime chaparral, Engelmann oak woodland, coast live oak woodland, or native grassland	3:1	3:1
Category C: Coastal Sage Scrub Coastal sage scrub or coastal sage scrub/chaparral mix	2:1	2:1
Category D: Chaparral Chaparral excluding southern maritime chaparral)	1:1	1:1
Category E: Annual Grasslands Annual non-native grassland	0.5:1	0.5:1

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	<p>Category F: Other Lands Disturbed land including ruderal, agricultural land, or eucalyptus</p> <p>¹ Primary conservation actions for natural habitat inside a FPA are assumed to be impact avoidance and minimization of unavoidable impacts. Inside a FPA, habitat that is conserved through impact avoidance may be used, subject to the jurisdiction's mitigation guidelines, to satisfy the mitigation obligation associated with habitat impacts of development elsewhere onsite.</p> <p>² A local jurisdiction may require mitigation or levy of an in-lieu mitigation fee for impacts to this habitat category if it finds that such actions are necessary to meet the goals of the MHCP or the subarea plan.</p> <table border="1" data-bbox="655 721 1609 1165"> <thead> <tr> <th>Wetland Vegetation Community¹</th> <th>Mitigation Ratio²</th> </tr> </thead> <tbody> <tr><td>Coastal salt marsh</td><td>4:1</td></tr> <tr><td>Alkali marsh</td><td>4:1</td></tr> <tr><td>Estuarine</td><td>4:1</td></tr> <tr><td>Saltpan/mudflats</td><td>4:1</td></tr> <tr><td>Oak riparian forest</td><td>3:1</td></tr> <tr><td>Riparian forest</td><td>3:1</td></tr> <tr><td>Riparian woodland</td><td>3:1</td></tr> <tr><td>Riparian scrub</td><td>1:1 to 2:1</td></tr> <tr><td>Fresh water</td><td>1:1</td></tr> <tr><td>Freshwater marsh</td><td>1:1 to 2:1</td></tr> <tr><td>Flood channel</td><td>1:1 to 2:1</td></tr> <tr><td>Disturbed wetlands</td><td>1:1 to 2:1</td></tr> <tr><td>Vernal pool</td><td>2:1 to 4:1</td></tr> </tbody> </table> <p>¹ These communities are subject to the goal of no net loss in acreage, function, and biological value. The highest priority will be given to impact avoidance and minimization. Replacement of habitat subject to unavoidable impact will occur through restoration or creation of substitute habitat areas, generally of the same kind and in the vicinity of the impacted habitat.</p> <p>² Mitigation ratios applicable in areas subject to review by the California Coastal Commission will be addressed in the cities' respective subarea plans. Such ratios may differ from those noted here.</p>			Wetland Vegetation Community ¹	Mitigation Ratio ²	Coastal salt marsh	4:1	Alkali marsh	4:1	Estuarine	4:1	Saltpan/mudflats	4:1	Oak riparian forest	3:1	Riparian forest	3:1	Riparian woodland	3:1	Riparian scrub	1:1 to 2:1	Fresh water	1:1	Freshwater marsh	1:1 to 2:1	Flood channel	1:1 to 2:1	Disturbed wetlands	1:1 to 2:1	Vernal pool	2:1 to 4:1					
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Impact 3.4-3: Potential to have a substantial adverse effect on federally protected wetlands	<p>MM 3.4-3: Complete Jurisdictional Determination and Mitigation as Applicable. Prior to any ground disturbing activities, the lead agency for that Project component shall conduct a formal jurisdictional delineation to confirm the presence and extent of features regulated by USACE, RWQCB, and/or CDFW. If implementation of the project component results in unavoidable impacts to jurisdictional waters, the lead agency for that Project component shall obtain a CWA Section 404 permit from USACE, a CWA Section 401 permit from RWQCB, and/or Streambed Alteration Agreement permit from CDFW. The following mitigation shall be incorporated into the permitting, subject to approval by the regulatory agencies:</p> <ul style="list-style-type: none"> On- and/or off-site replacement of USACE/RWQCB jurisdictional "waters of the U.S.,"/"waters of the State" at a ratio no less than 1:1 ("no net loss") for permanent 			Coalition Members Responsible for: <ul style="list-style-type: none"> Group C: City of Escondido Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group K: Santa Fe ID Group O: Vista ID Coalition Members Responsible for Treatment Plants:	USACE, RWQCB, CDFW, Coalition Members Listed as Party Responsible for Implementation and Reporting	1. Confirm completion of jurisdictional delineation. 2. Verify that wetland buffers and permitted uses are consistent with County of San Diego Biological Mitigation Ordinance and Resource	1. Design 2. Design 3. Design 4. Design 5. Pre-construction 6. Post-construction	1. _____ 2. _____ 3. _____																												

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>impacts, and for temporary impacts to restore the impact area to pre-project conditions (i.e., pre-project contours and revegetate as appropriate). Off-site replacement may include the purchase of mitigation credits at an agency-approved off-site mitigation bank.</p> <ul style="list-style-type: none"> On- and/or off-site replacement of CDFW jurisdictional streambed and associated riparian habitat at a ratio no less than 2:1 for permanent impacts, and for temporary impacts to restore the impact area to pre-project conditions (i.e., pre-project contours and revegetate as appropriate). Off-site replacement may include the purchase of mitigation credits at an agency-approved off-site mitigation bank. <p>If potential jurisdictional features are avoided through jack and boring and/or HDD methods, the following measure shall be incorporated into the project:</p> <ul style="list-style-type: none"> Prior to any ground disturbing activities, the USACE, RWQCB, and CDFW shall be notified of the proposed jack and boring and/or horizontal directional drilling (HDD) activities beneath jurisdictional features. If required by CDFW, a Streambed Alteration Agreement under Section 1602 of the California Fish and Game Code would be obtained. A plan to deal with potential frac-out release or other emergency shall be prepared by the contractor (or project engineer) for submittal to USACE, RWQCB, and CDFW, if requested, prior to the activities outlining the project as well as the provisions in place to avoid/contain pollutants in case of an accident (e.g., should frac-out release occur). <p>Impacts and avoidance of wetland areas shall also comply with the County of San Diego County Biological Mitigation Ordinance and Resource Protection Ordinance, as applicable to the Coalition members, with regards to permitted uses and buffer avoidance widths.</p>	<ul style="list-style-type: none"> El Corazon Site: City of Oceanside San Luis Rey WWTP and AWT: City of Oceanside Carlsbad WRF: Carlsbad MWD San Elijo WRF: San Elijo JPA HARRF: City of Escondido 		<p>Protection Ordinance, as applicable.</p> <p>3. Verify that mitigation measures are incorporated into permits, as applicable</p> <p>4. Confirm permit requirements are included in the contract documents, if applicable.</p> <p>5. Confirm permits have been obtained, if applicable.</p> <p>6. Confirm mitigation required by permit has been implemented, if applicable.</p>		<p>4. _____</p> <p>5. _____</p> <p>6. _____</p>
<p>Impact 3.4-4: Potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.</p>	<p>MM 3.4-4: Avoid Migratory Bird Nesting Season or Complete Surveys Before Construction Activities. If feasible, construction within or adjacent to vegetation suitable for migratory birds shall occur outside the nesting season (i.e., construction shall occur between September 1 through January 14) to avoid potential direct and indirect impacts to nesting birds. If vegetation removal is required during the nesting season, a qualified biologist shall survey all suitable habitats for the presence of nesting birds before commencement of clearing. If any active nests are detected, a buffer of at least 300 feet (500 feet for raptors) around the nest shall be delineated, flagged, and avoided until the nesting cycle is complete, or as determined appropriate by the biologist. Biological monitoring shall also occur until the nesting cycle is complete.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group J: Rincon del Diablo MWD Group K: Santa Fe ID Group M: Vallecitos WD Group N: Vallecitos WD Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> El Corazon Site: City of Oceanside San Luis Rey WWTP and AWT: City of Oceanside Carlsbad WRF: Carlsbad MWD 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Verify construction schedule for activities within or adjacent to vegetation suitable for migratory birds occurs between September 1 and January 14, where feasible.</p> <p>2. Confirm that surveys are completed, if construction activities within or adjacent to habitat suitable for migratory birds are scheduled between January 15 and August 31 (nesting season), and if</p>	<p>1. Pre-construction</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
		<ul style="list-style-type: none"> • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		vegetation removal is required. 3. Confirm buffer zones have been established, if applicable 4. Verify that monitoring of construction activities is occurring until the nesting cycle is complete, if needed.		
Impact 3.4-5: Potential to conflict with local policies or ordinances protecting biological resources	<p>MM 3.4-5: Conduct Inventory of Trees Having the Potential to Be Impacted, Prepare Tree Protection Plans, and Acquire Permits as Required by Applicable Municipality or Jurisdiction. Prior to any ground disturbing activities, the lead agency for that Project component shall have a certified arborist conduct a tree inventory of any regulated trees within the project component's impact area in accordance with Tree Protection Ordinances of the applicable municipality or jurisdiction. Permits shall be obtained, as needed, for tree removal. At such time any and all requirements shall be completed, including but not limited to the preparation of tree protection plans or acquisition of permits.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	1. Confirm that the contract documents include measures requiring completion of requisite permits and/or plans for tree protection. 2. Confirm completion of a tree inventory. 3. Verify that monitoring of construction activities is occurring in areas having the potential to impact trees, if needed.	1. Design 2. Pre-construction 3. Construction	1. _____ 2. _____ 3. _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Cultural Resources						
Impact 3.5-1: Potential to cause a substantial adverse change in the significance of a historical resource	MM 3.5-1a: Conduct a Phase I Historical Resources Assessment. The lead agency for each above ground project component shall conduct a Phase I Historical Resources Assessment of unevaluated potentially eligible historical resources that may be impacted by above ground structures in the Proposed Project, unless such analysis has been previously completed (i.e., at an existing treatment plant site). A Phase I Reconnaissance-Level Survey shall be performed for structures over 45-years in age located in proximity of proposed above-ground project components. A reconnaissance-level field survey for potentially historic buildings, structures, landscapes, and road infrastructure shall be conducted to determine whether the project elements would directly or indirectly impact any historic resources. The project applicant shall engage a qualified historic preservation consultant who shall assess the significance and integrity of potential historic resources. A qualified architectural historian, historic architect, or historic preservation professional is someone who satisfies the Secretary of the Interior's Professional Qualification Standards for History, Architectural History, or Architecture, pursuant to 36 CFR 61, and has at least 10 years of experience in conducting historic surveys. If an identified property is found ineligible, no further evaluation would be required; however, if eligible historical resources are identified, a project-level impacts analysis shall be conducted for compliance with CEQA. If adverse impacts/effects are identified in the project-level impact analysis, the project may be redesigned to avoid or reduce potential impacts/effects to less than significant, in accordance with the Standards, or mitigation measures would be required. Such mitigation measures could include visual screening (tree rows), but would be highly variable, based on the types of impacts identified in the project-level evaluation. A project that conforms to the Secretary of the Interior's <i>Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings</i> is considered fully mitigated under CEQA. The minimum level of effort for the Phase I assessment shall include historical resources records searches through the South Central Coastal Information Center, the development of historic context for the project area, and a pedestrian survey of the project area. The assessment would include potentially eligible historic resources which were not previously evaluated.	Coalition Members Responsible for Above-Ground Facilities in: <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID Coalition Members Responsible for Treatment Plants: <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	1. Document completion of Phase I Historical Resources Assessment, as applicable 2. Document completion of a Phase I Reconnaissance-Level Survey for structures over 45-years old, as applicable 3. Verify that project-level mitigation measures and/or changes to project design are incorporated into appropriate contracts and documents, as applicable	1. Design 2. Design 3. Design	1. _____ 2. _____ 3. _____
Impact 3.5-1: Potential to cause a substantial adverse change in the significance of a historical resource	MM 3.5-1b Conduct Historical Resources Monitoring for First San Diego Aqueduct. The City of Escondido shall retain a qualified architectural historian who shall be present during construction excavations such as clearing/grubbing, grading, trenching, or any other construction excavation activity in the vicinity of the First San Diego Aqueduct. Specifically, the monitoring shall take place along the project facilities associated with Group C that could impact the First San Diego Aqueduct. The First San Diego Aqueduct was determined to be eligible for the National Register of Historic Places under criterion A in 2012 (PCR 2015) and the Proposed Project has the potential to materially impair a small segment of it. Any important historic fabric uncovered associated with the First San Diego Aqueduct shall be fully recorded in photographic images and written manuscript notes to supplement the HAER documentation of the First San Diego Aqueduct (previously prepared/required to be	Coalition Member Responsible for: <ul style="list-style-type: none"> • Group C: City of Escondido Coalition Member Responsible for Treatment Plants: <ul style="list-style-type: none"> • HARRF: City of Escondido 	Same as Party Responsible for Implementation and Reporting	1. Confirm that the contract documents include appropriate measures for monitoring construction excavation activities in the vicinity of the First San Diego Aqueduct.	1. Design 2. Construction 3. Post-construction.	1. _____ 2. _____ 3. _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	prepared for another project) (PCR 2015). A qualified architectural historian or historic preservation professional who satisfies the Secretary of the Interior's Professional Qualification Standards for Architectural History, pursuant to 36 CFR 61, shall prepare the necessary written and illustrated documentation in a construction monitoring report. This document shall briefly record the history of the First San Diego Aqueduct and the construction methods as well document its present physical condition through site plans; historic maps and photographs; sketch maps; 35mm photography; and written data and text. The completed documentation shall be submitted to the CHRIS-SCIC and representatives of other appropriate or concerned agencies to signify the satisfactory completion of the project and required mitigation measures.			2. Verify monitor is in place and has the required qualifications. 3. Confirm completion and submittal of applicable documentation.		4. _____
Impact 3.5-1: Potential to cause a substantial adverse change in the significance of a historical resource	MM 3.5-1c Conduct Plan Review and Evaluation of Historical Resources – Olivenhain MWD and Santa Fe ID. Rancho Santa Fe is a California State Historic Landmark, and therefore, improvements on or adjacent to Rancho Santa Fe have the potential to directly impact the historical resources and setting, and therefore, improvements on or adjacent to Rancho Santa Fe must be designed to comply with the Secretary of the Interior's <i>Standards</i> . Prior to designing or implementing projects in this area, which includes facilities associated with Group H and Group K, Olivenhain MWD and Santa Fe ID shall engage a qualified historic preservation consultant to review the proposed projects. Likewise, Rancho Francisco Pio/Whelan Ranch and Enchanted Oaks are previously identified resources that may require re-evaluation by qualified surveyors if determined necessary based upon the proposed improvement and its potential to affect these resources. A qualified preservation consultant is an architectural historian, historic architect, or historic preservation professional who satisfies the Secretary of the Interior's Professional Qualification Standards for History, Architectural History, or Architecture, pursuant to 36 CFR 61, and has at least 10 years of experience in reviewing architectural plans for conformance to the Secretary's Standards and Guidelines. The lead agency for each project component shall undertake and complete construction in a manner consistent with the preservation consultant's recommendations to ensure that the Project meets the <i>Secretary of the Interior's Standards for Rehabilitation</i> . The preservation consultant shall review the final construction drawings for conformance to the Secretary of the Interior's Standards and prepare a memo commenting on the final Project. A Project that conforms to the Secretary of the Interior's <i>Standards</i> is considered fully mitigated under CEQA.	Coalition Members Responsible for Components within the vicinity of Rancho Santa Fe, Rancho Francisco Pio/Whelan Ranch, and Enchanted Oaks, in: <ul style="list-style-type: none"> • Group H: Olivenhain MWD • Group K: Santa Fe ID Coalition Member Responsible for Treatment Plants: <ul style="list-style-type: none"> • San Elijo WRF: San Elijo JPA 	Same as Party Responsible for Implementation and Reporting	1. Confirm that design for projects in this area include engagement of a qualified historic preservation consultant. 2. Plan and complete construction in a manner consistent with historic preservation consultant's recommendations. 3. Confirm completion of applicable documentation from preservation consultant on the final Project regarding completion of project consistent with the Secretary of the Interior's Standards.	1. Design 2. Pre-construction /Construction 3. Post-construction.	1. _____ 2. _____ 3. _____
Impact 3.5-1: Potential to cause a substantial adverse change in the significance of a historical resource	MM 3.5-1d Conduct Plan Review and Evaluation of Historical Resources – City of Oceanside. Prior to designing or implementing projects in this area, which includes facilities associated with Group G, City of Oceanside shall engage a qualified historic preservation consultant to assess identified resources for eligibility as historical resources and review the proposed projects for potential impacts to eligible historical resources. A qualified preservation consultant is an architectural historian, historic architect, or historic preservation professional who satisfies the Secretary of the Interior's Professional Qualification Standards for History, Architectural History, or	Coalition Member Responsible for: <ul style="list-style-type: none"> • Group G: City of Oceanside Coalition Members Responsible for Treatment Plants: <ul style="list-style-type: none"> • San Luis Rey WWTP and AWT: City of Oceanside 	Same as Party Responsible for Implementation and Reporting	1. Confirm that design for projects in this area include engagement of a qualified historic preservation consultant.	1. Design 2. Pre-construction 3. Post-construction.	1. _____ 2. _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>Architecture, pursuant to 36 CFR 61, and has at least 10 years of experience in reviewing architectural plans for conformance to the Secretary's Standards and Guidelines. The lead agency for each project component shall undertake and complete construction in a manner consistent with the preservation consultant's recommendations to ensure that the Project meets the <i>Secretary of the Interior's Standards for Rehabilitation</i>. The preservation consultant shall review the final construction drawings for conformance to the Secretary of the Interior's Standards and prepare a memo commenting on the final Project. A Project that conforms to the Secretary of the Interior's <i>Standards</i> is considered fully mitigated under CEQA.</p>			<p>2. Verify that construction plan is consistent with historic preservation consultant's recommendations.</p> <p>3. Confirm completion of applicable documentation from preservation consultant that final construction drawings for the final Project conform to appropriate standards.</p>		<p>2. _____</p> <p>3. _____</p>
<p>Impact 3.5-2: Potential to cause a substantial adverse change in the significance of an archaeological resource</p>	<p>MM 3.5-2a: Conduct a Phase I Archaeological Resources Assessment. The lead agency for each project component shall conduct a Phase I Archaeological Resources Assessment of the given improvement footprint to identify any archaeological resources within the footprint or immediate vicinity to support the project-level CEQA, unless such analysis has been previously completed (i.e., at an existing treatment plant site). The minimum level of effort for the Phase I assessment shall include a cultural resources records searches through the South Central Coastal Information Center (if needed to update the records search performed for this PEIR), a Sacred Lands File search through the Native American Heritage Commission and follow-up Native American consultation, and a pedestrian survey of the Study Area (Note: surveys may not be required in areas that do not have the native ground surface exposed such as paved streets). In addition, the responsible lead agency for each project component shall review available geotechnical studies, site plans, and drilling/grading studies relevant to their project component(s) to determine the nature and depth of the construction activities to assist in determining the depths of fill versus native soils across the improvement footprint. If no resources are identified as a result of the records search or survey, it does not preclude the existence of buried resources within the improvement footprint. If this is the case, a qualified archaeologist will determine the potential for the project to encounter buried resources during construction based on the results of the record searches, land use history, depth of native versus fill soils, and the proposed excavation parameters. If no resources are identified, no further analyses or mitigation shall be warranted, unless it can be determined that the project has a high or moderate potential to encounter buried archaeological resources; however, if resources are identified during the Phase I assessment, a Phase II assessment shall be conducted for compliance with CEQA.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm that contract documents include requirement for review and determination of potential to encounter buried resources during construction by a qualified archaeologist (Phase I assessment).</p> <p>2. Confirm completion of cultural resources records searches.</p> <p>3. Verify and document follow-up Native American consultation occurred</p> <p>4. Confirm completion of pedestrian survey of the Study Area, if needed.</p> <p>5. Confirm that Phase II assessment is completed should resources be</p>	<p>1. Design</p> <p>2. Design</p> <p>3. Design</p> <p>4. Design</p> <p>5. Design</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
		<ul style="list-style-type: none"> Escondido AWTF: City of Escondido Harmony Grove WRF: Rincon del Diablo 		identified during the Phase I assessment.		
Impact 3.5-2: Potential to cause a substantial adverse change in the significance of an archaeological resource	<p>MM 3.5-2b: Conduct a Phase II Archaeological Resources Assessment and Mitigation. If resources are identified during the Phase I assessment, a Phase II Archaeological Resources Assessment may be warranted if impacts from the improvements cannot be avoided. The Phase II assessment shall evaluate the resource(s) for listing in the CRHR and to determine whether the resource qualifies as a “unique archaeological resource” pursuant to CEQA. If enough data is obtained from the Phase I assessment to conduct a proper evaluation, a Phase II evaluation may not be necessary. Methodologies for evaluating a resource can include, but are not limited to: subsurface archaeological test excavations, additional background research, and coordination with Native Americans and other interested individuals in the community. The methods and results of a Phase II evaluation shall be described in a technical report that will support the Cultural Section of the CEQA environmental document. If, as a result of the Phase II evaluation, resources are determined eligible for listing in the California Register (thus qualifying them as “historical resources” pursuant to CEQA Guidelines Section 15064.5) or are considered “unique archaeological resources” pursuant to Section 21083.2 of the Public Resources Code, potential impacts to the resources shall be analyzed and if impacts are significant (i.e., the improvement would cause a “substantial adverse change” to the resource) and cannot be avoided, mitigation measures shall be developed and implemented to reduce impacts to the resources to a level that is less than significant.</p> <p>If resource avoidance, resource “capping” (covering a resource with a layer of fill soils before building on the resource), or incorporating a resource into a park plan or open space is deemed not feasible, then an archaeological resources mitigation program shall be developed. Such mitigation programs typically include additional subsurface archaeological excavations (i.e., data recovery) that serve to recover significant archaeological resources before they are damaged or destroyed by the proposed improvement. Documentation and recovered materials (artifacts and other specimens) are placed with a suitable museum for future study and research. Data recovery is typically recommended as a mitigation measure and is typically implemented after CEQA has been completed, but prior to issuance of grading or building permits. The methods and results of a data recovery program shall be described in a technical report that shall be submitted to the Coalition and filed with the CHRIS-SCIC to show satisfactory compliance with the archaeological mitigation measures for a given project. It is possible that the archaeological excavations associated with the Phase II assessment could remove enough archaeological material from the resource as to negate the need to conduct a subsequent excavation.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group J: Rincon del Diablo MWD Group K: Santa Fe ID Group M: Vallecitos WD Group N: Vallecitos WD Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> El Corazon Site: City of Oceanside San Luis Rey WWTP and AWT: City of Oceanside Carlsbad WRF: Carlsbad MWD Gafner WRF: Leucadia WWD Encina WPCF: Encina Wastewater Authority Meadowlark WRF and AWT: Vallecitos WD San Elijo WRF: San Elijo JPA HARRF: City of Escondido Escondido AWTF: City of Escondido Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	<ol style="list-style-type: none"> 1. Confirm that contract documents contain requirements for Phase II assessment, if needed after Phase I. 2. Confirm completion of Phase II technical report, if needed. 3. Verify resource avoidance, capping, or incorporation into park plan or open space was considered, if qualifying resources identified in Phase II evaluation 4. Confirm development of mitigation measures, if needed as a result of the Phase II evaluation, including a data recovery program. 5. Confirm Phase II evaluation mitigation measures are incorporated into contract documents, if applicable. 6. Monitor construction activities to verify that mitigation measures are implemented during construction. 	<ol style="list-style-type: none"> 1. Design 2. Design 3. Design 4. Design 5. Design 6. Construction 7. Post-construction 8. Post-construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
				<p>7. Confirm technical report completed that documents the methods and results of the data recovery program mitigation, if applicable.</p> <p>8. Submit technical report of data recovery program to CHRIS-SCIC</p>		
<p>Impact 3.5-2: Potential to cause a substantial adverse change in the significance of an archaeological resource</p>	<p>MM 3.5-2c: Conduct Archaeological Sensitivity Training for Construction Personnel. The lead agency for each project component shall retain a qualified archaeologist who shall conduct an Archaeological Sensitivity Training for construction personnel prior to commencement of excavation activities. The training session shall be carried out by a cultural resources professional with expertise in archaeology, will 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 training session will include a Power Point presentation and/or handouts for all attendees. The basic topics to be addressed in the session include: a brief cultural and archaeological history of the area and the Study Area ; cultural resource compliance obligations; training in potential resources that may be encountered through the use of photographs or other illustrations; the duties of archaeological monitors; notification and other procedures to follow upon discovery of resources; and, the general steps that would be followed to conduct a salvage investigation if one is necessary.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm that contract documents specify training for construction personnel by a qualified archaeologist.</p> <p>2. Document training session materials include a Power Point presentation and/or handouts for attendees</p> <p>3. Verify topics listed in the mitigation measure are included in the training</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

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<p>Impact 3.5-2: Potential to cause a substantial adverse change in the significance of an archaeological resource</p>	<p>MM 3.5-2d: Monitor and Report Construction Excavations for Archeological Resources. The lead agency for each project component shall retain a qualified professional archaeological monitor who shall be present during construction excavations such as clearing/grubbing, grading, trenching, or any other construction excavation activity associated with the proposed improvement. 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 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 archaeological monitor.</p> <p>In the event that archaeological resources are unearthed during ground-disturbing activities, ground disturbing activities shall be halted or redirected away from the vicinity of the find so that the find can be evaluated. Work shall be allowed to continue outside of the vicinity of the find. All archaeological resources unearthed by Project construction activities shall be evaluated by the archaeologist. The Coalition shall coordinate with the archaeologist to develop an appropriate treatment plan for the resources. Treatment may include implementation of archaeological data recovery excavations to remove the resource or preserve it in place. The landowner, in consultation with the Coalition and archaeologist, shall designate repositories in the event that archaeological material is recovered.</p> <p>The archaeological monitor shall prepare a final report at the conclusion of archaeological monitoring. The report shall be submitted to the Coalition and CHRIS-SCIC, 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 of Historical Resources and CEQA, and treatment of the resources.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	<p>Same as Party Responsible for Implementation and Reporting</p>	<ol style="list-style-type: none"> 1. Confirm that contract documents include retention of a qualified professional archaeological monitor 2. Confirm that contract documents include that work shall be halted in the vicinity of the find in the event that archaeological resources are unearthed during ground-disturbing activities 3. Verify that monitoring of construction excavation activities is occurring as recommended by the archaeological monitor. 4. Confirm development of a treatment plan for resources, in coordination with archaeologist, if resources are unearthed during construction 5. Verify designation of repositories for archaeological materials 6. Confirm completion of final archaeological monitoring report. 7. Verify submittal of report to the Coalition and to CHRIS-SCIC, and 	<ol style="list-style-type: none"> 1. Design 2. Design 3. Construction 4. Construction 5. Construction 6. Post-construction 7. Post-construction 	<p>1. _____</p> <p>2. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Impact 3.5-2: Potential to cause a substantial adverse change in the significance of an archaeological resource	<p>MM 3.5-2e: Cease Ground-Disturbing Activities and Report if Archeological Resources are Encountered. If archaeological resources are encountered by construction personnel during implementation of the Project, ground-disturbing activities should temporarily be redirected from the vicinity of the find. Recognition of archaeological resources by construction personnel would be based on the training received under Mitigation Measure MM 3.5-2c. The lead agency for each project component shall immediately notify a qualified archaeologist of the find. The archaeologist should coordinate with the Coalition as to the immediate treatment of the find until a proper site visit and evaluation is made by the archaeologist. Treatment may include the implementation of an archaeological testing or data recovery program. All archaeological resources recovered will be documented on California Department of Parks and Recreation Site Forms to be filed with the CHRIS-SCIC. The archaeologist shall prepare a final report about the find to be filed with the District and the CHRIS-SCIC, as required by the California Office of Historic Preservation. The report shall include documentation and interpretation of resources recovered. Interpretation will include full evaluation of the resource's eligibility for listing in the California Register of Historical Resources and whether the resource qualifies as a unique archaeological resource. The landowner, in consultation with the Coalition and the archaeologist, shall designate repositories to curate any material in the event that resources are recovered. The archaeologist shall also determine the need for archaeological monitoring for any ground-disturbing activities in the area of the find thereafter.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	<p>other agencies as appropriate.</p> <ol style="list-style-type: none"> 1. Confirm measure is included in specifications 2. Confirm work in the vicinity of a find is stopped and appropriate measures are taken, if needed. 3. Document implementation of immediate treatment recommended by archaeologist 4. Verify documentation of finds on California Department of Parks and Recreation Site Forms filed with CHRIS-SCIC 5. Confirm completion of final report on the find by the archaeologist 6. Verify submittal of report to California Department of Parks and Recreation and CHRIS-SCIC 7. Document designation of repositories for potential recovered resources 	<ol style="list-style-type: none"> 1. Design 2. Construction 3. Construction 4. Construction 5. Post-construction 6. Post-construction 7. Pre-construction 8. Post-construction 	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p>7. _____</p>
Impact 3.5-3: Potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature	<p>MM 3.5-3a: Conduct Paleontological Sensitivity Training for Construction Personnel. The lead agency for each project component shall retain a qualified paleontologist who shall conduct a Paleontological Sensitivity Training for construction personnel prior to commencement of excavation activities. The training session shall be carried out by a cultural resources professional with expertise in paleontology, and will focus on how to identify paleontological resources that may be encountered during earthmoving activities, and the procedures to be followed in such an event. The training session will include a Power Point presentation and/or handouts for all</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD 	Same as Party Responsible for Implementation and Reporting	<ol style="list-style-type: none"> 1. Confirm that contract documents specify training for construction personnel by a qualified paleontologist. 	<ol style="list-style-type: none"> 1. Design 2. Pre-construction 3. Pre-construction 	<p>1. _____</p> <p>2. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>attendees. The basic topics to be addressed in the session include: a brief cultural and geologic history of the area and the Coalition’s cultural resource compliance obligations; training in potential resources that may be encountered through the use of photographs or other illustrations; the duties of paleontological monitors; notification and other procedures to follow upon discovery of resources; and, the general steps that would be followed to conduct a salvage investigation if one is necessary.</p>	<ul style="list-style-type: none"> • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>2. Document that training materials include a Power Point presentation and/or handouts</p> <p>3. Verify training topics include, at minimum, those listed in the mitigation measure</p> <p>4. Verify training occurred for all construction personnel</p>	<p>4. Pre-construction</p>	<p>3. _____</p> <p>4. _____</p>
<p>Impact 3.5-3: Potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature</p>	<p>MM 3.5-3b: Monitor and Report Construction Excavations for Paleontological Resources. A qualified professional paleontologist shall be retained to monitor excavation activities in certain areas of the project that would encounter fossiliferous geologic units that have been assigned “moderate”, “moderate to high”, and “high” potential as detailed in this report. Monitoring shall consist of visually inspecting fresh exposures of rock for larger fossil remains and, where appropriate, collecting wet or dry screened sediment samples of promising horizons for smaller fossil remains. The frequency of monitoring shall be based on the rate of excavation and grading activities, proximity to known paleontological resources or fossiliferous geologic units, the materials being excavated (native versus fill soils), and the depth of excavation, and if found, the abundance and type of paleontological resources encountered. Full-time monitoring can be reduced to part-time inspections or ceased entirely if determined adequate by the paleontological monitor.</p> <p>If a potential fossil is found, the grading and excavation activities shall be temporarily diverted or redirected away from or around the area of the exposed fossil to facilitate evaluation and, if necessary, salvage. At the paleontologist’s discretion and to reduce any construction delay, the grading and excavation contractor shall assist in removing rock samples for initial processing.</p> <p>Any fossils encountered and recovered shall be prepared to the point of identification and catalogued before they are donated to their final repository. Any fossils collected shall be donated to a public, non-profit institution with a research interest in the</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm measure included in contract documents</p> <p>2. Verify that monitoring of construction excavation activities is occurring as recommended by the paleontological monitor.</p> <p>3. Verify temporary cessation of grading and excavation in the vicinity of the fossil, if found</p> <p>4. Confirm fossils recovered and prepared to the point</p>	<p>1. Design</p> <p>2. Construction</p> <p>3. Construction</p> <p>4. Construction</p> <p>5. Post-construction</p> <p>6. Post-construction</p> <p>7. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>materials, such as the San Diego Natural History Museum. Accompanying notes, maps, and photographs shall also be filed at the repository.</p> <p>Upon completion of the above activities, the paleontologist shall prepare a report summarizing the results of the monitoring and salvaging efforts, the methodology used in these efforts, as well as a description of the fossils collected and their significance. The report shall be submitted to the lead agency for the project component, the San Diego Natural History Museum, and representatives of other appropriate or concerned agencies to signify the satisfactory completion of the Project and required mitigation measures.</p>	<ul style="list-style-type: none"> • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>of identification and are catalogued</p> <p>5. Confirm recovered fossils donated to appropriate institution and all appropriate documentation (notes, maps, photographs) submitted to the institution</p> <p>6. Confirm completion of final paleontological monitoring report.</p> <p>7. Verification report submitted to appropriate Coalition member, San Diego Natural History Museum, and other appropriate agencies.</p>		7. _____
Impact 3.5-4: Potential to disturb any human remains	<p>MM 3.5-4: Cease Ground-Disturbing Activities and Notify County Coroner If Human Remains Are Encountered. If human remains are unearthed during implementation of the Proposed Project, the lead agency for the project component shall comply with State Health and Safety Code Section 7050.5. The lead agency for the project component shall immediately notify the County Coroner and no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission (NAHC). The NAHC shall then identify the person(s) thought to be the Most Likely Descendent (MLD). The MLD may, with the permission of the lead agency, inspect the site of the discovery of the Native American remains and may recommend to the lead agency means for treating or disposing, with appropriate dignity, the human remains and any associated funerary objects. The MLD shall complete their inspection and make their recommendation within 48 hours of being granted access by the lead agency to inspect the discovery. The recommendation may include the scientific removal and nondestructive analysis of human remains and cultural items associated with Native American burials. Upon the discovery of the Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted 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 lead agency has discussed and conferred, as prescribed in this mitigation measure, with the MLD regarding their recommendations, if applicable, taking into account the possibility of</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD 	County Coroner NAHC Coalition Members Listed as Party Responsible for Implementation and Reporting	<p>1. Confirm contract documents include measures for what to do in the event that human remains are unearthed during construction.</p> <p>2. Confirm appropriate notifications (County Coroner and NAHC if applicable) have occurred if human burials are encountered.</p> <p>3. Verify excavation activities in the vicinity of the remains is halted if the remains are determined to be Native American,</p>	<p>1. Design</p> <p>2. Construction</p> <p>3. Construction</p> <p>4. Construction</p> <p>5. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>multiple human remains. The lead agency shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment. MLDs in the region typically recommend reburial of the remains as close to the original burial location as feasible accompanied by a ceremony. The MLD shall file a record of the reburial with the NAHC and the project archaeologist shall file a record of the reburial with the CHRIS-SCIC.</p> <p>If the NAHC is unable to identify a MLD, or the MLD identified fails to make a recommendation, or the landowner rejects the recommendation of the MLD and the mediation provided for in Subdivision (k) of Section 5097.94, if invoked, fails to provide measures acceptable to the lead agency, the lead agency or its authorized representative shall inter the human remains and items associated with Native American human remains with appropriate dignity on the facility property in a location not subject to further and future subsurface disturbance.</p>	<ul style="list-style-type: none"> • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>until consultation with MLD has occurred</p> <p>4. Confirm human remains have been accorded appropriate treatment</p> <p>5. Verify record of reburial has been filed with NAHC by MLD and CHRIS-SCIC by the archaeologist, if applicable</p>		
Geology, Soils, and Seismicity						
<p>Impact 3.6-1: Potential to expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: Rupture of known earthquake fault; Strong seismic ground shaking; Seismic-related ground failure, including liquefaction; or Landslides</p> <p>Impact 3.6-2: Potential for on- or off-side landslide, lateral spreading, subsidence, liquefaction, or collapse</p> <p>Impact 3.6-3: Risks to life or property from expansive soil</p> <p>Impact 3.9-5: Potential for inundation by seiche, tsunami, or mudflow</p>	<p>MM 3.6-1a: Assess Potential for Liquefaction and Incorporate Protective Measures. During design of project components in areas shown as at risk for liquefaction, engineers shall assess potential for liquefaction through soils testing/surveys and incorporate protective measures as necessary. Pipelines shall be installed within consolidated, engineered backfill.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm liquefaction assessments have been completed.</p> <p>2. Confirm that contract documents include pipeline installation requirements as recommended in the liquefaction assessments, if applicable.</p> <p>3. Confirm that contract documents include pipeline installation within consolidated, engineered backfill</p>	<p>1. Design</p> <p>2. Design</p> <p>3. Design</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.6-1: Potential to expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: Rupture of known earthquake fault; Strong seismic ground shaking; Seismic-related ground failure, including liquefaction; or Landslides</p> <p>Impact 3.6-2: Potential for on- or off-side landslide, lateral spreading, subsidence, liquefaction, or collapse</p> <p>Impact 3.6-3: Risks to life or property from expansive soil</p> <p>Impact 3.9-5: Potential for inundation by seiche, tsunami, or mudflow</p>	<p>MM 3.6-1b: Stabilize Slopes During Construction. For facilities located within landslide risk areas, slopes shall be stabilized prior to and during construction activities. Such stabilization may include grading to reduce the slope, removal of unstable soils and materials, or an appropriate slope stabilization method.</p>	<p>• Harmony Grove WRF: Rincon del Diablo</p> <p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido <p>Harmony Grove WRF: Rincon del Diablo</p>	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm landslide risk evaluations have been completed</p> <p>2. Confirm that contract documents include relevant requirements for slope stabilization.</p> <p>3. Verify that slope stabilization occurred prior to and/or during construction, as needed</p>	<p>1. Design</p> <p>2. Design</p> <p>3. Pre-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
Hazards and Hazardous Materials						
<p>Impact 3.8-1: Potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials</p> <p>Impact 3.8-3: Potential to emit hazardous emissions or handle hazardous materials, substances,</p>	<p>MM 3.8-1: Preparation of Hazardous Materials Business Plan. For any treatment facilities using hazardous materials and chemicals, as well as for pump stations that store hazardous materials and chemicals, the lead agency for that project component shall prepare and implement a Hazardous Materials Business Plan (HMBP). The HMBP shall include, at minimum, a hazardous materials inventory, site plan, an emergency response plan, and requirements for employee training.</p>	<p>Coalition Members Responsible for Above-Ground Facilities in:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm requirement for Hazardous Materials Business Plan (HMBP) is included in the contract documents.</p> <p>2. Confirm contractor has prepared HMBP that includes a</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>or waste within one-quarter mile of an existing or proposed school</p> <p>Impact 3.9-1: Potential to violate water quality standards or waste discharge requirements, or otherwise degrade water quality (e.g., such as by altering the drainage pattern of site or area that would result in erosion/siltation)</p> <p>Impact 3.17-1: Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board; require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects; or result in a determination by the wastewater treatment provider which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments</p>		<ul style="list-style-type: none"> • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>hazardous materials inventory, site plan, emergency response plan, and requirements for employee training.</p> <p>3. Confirm that HMBP is implemented.</p>		
<p>Impact 3.8-2: Potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment</p> <p>Impact 3.8-4: Location on a site which is included on a list of hazardous materials sites, which would create a significant hazard to the public or the environment</p>	<p>MM 3.8-2a: Identification of Potential Hazardous Materials Exposure. During project design, the lead agency for each project component shall consult the hazardous sites databases (GeoTracker and EnviroStor) to identify potential hazardous sites and avoid them where possible. For project components to be constructed within the County of San Diego, the lead agency for each component shall also identify sites within 250 feet of the project that contain burn ash and sites within 1,000 feet of formerly used defense sites in this analysis, in accordance with the County of San Diego's Guidelines for Determining Significance: Hazardous Materials and Existing Conditions (County of San Diego 2007b). If a known hazardous site is unavoidable, a Phase I Environmental Site Assessment shall then be performed by a qualified environmental professional to clarify known hazardous materials cases in the vicinity of the project construction area. Follow-up sampling would be conducted if needed to characterize soil and groundwater quality before the start of construction. Prior to construction, contractors shall be informed of the location of potential areas of hazardous materials that may be encountered during construction, and shall ensure that safety precautions are in place to avoid or minimize exposure to potentially contaminated soils, and to reduce the potential for accidental damage to underground storage tanks that could cause accidental release of hazardous materials into the environment.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm relevant requirements for identification of potential hazardous materials exposure are included in the contract documents.</p> <p>2. If a known hazardous site is unavoidable, confirm Phase I Environmental Site Assessment is performed by a qualified environmental professional.</p> <p>3. Verify additional sampling occurred, if needed</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Pre-construction</p> <p>5. Design</p> <p>6. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p>

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		<ul style="list-style-type: none"> • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>4. Verify contractors notified of locations of potential areas of hazardous materials prior to construction, if applicable</p> <p>5. Confirm contract documents include measures to ensure appropriate safety precautions in the event that potential areas of hazardous materials could be encountered during construction</p> <p>6. Verify safety precautions are implemented, if necessary</p>		
<p>Impact 3.8-2: Potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment</p> <p>Impact 3.8-3: Potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school</p> <p>Impact 3.8-4: Location on a site which is included on a list of hazardous materials sites, which would create a significant hazard to the public or the environment</p>	<p>MM 3.8-2b: Hazardous Materials Management and Spill Prevention and Control Plan. Before construction begins, all construction contractors shall be required to develop and implement a Hazardous Materials Management and Spill Prevention and Control Plan that includes project-specific contingency plan for hazardous materials and waste operations. The Plan shall establish policies and procedures consistent with applicable codes and regulations, including but not limited to the California Building and Fire Codes, and federal and California Occupational Safety and Health Administration (OSHA).</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm requirement for Hazardous Materials Management Spill Prevention and Control Plan (HMMSPCP) is included in the contract documents.</p> <p>2. Confirm contractor has prepared HMMSPCP that establishes policies and procedures consistent with California Building and Fire Codes, federal and California OSHA, and other applicable codes and regulations.</p> <p>3. Confirm that HMMSPCP is implemented.</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
		<ul style="list-style-type: none"> • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 				
<p>Impact 3.8-2: Potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment</p> <p>Impact 3.8-3: Potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school</p> <p>Impact 3.8-4: Location on a site which is included on a list of hazardous materials sites, which would create a significant hazard to the public or the environment</p>	<p>MM 3.8-2c: Contaminated Soil Contingency Plan. If contaminated soil is encountered during project construction, work shall halt and an assessment made to determine the extent of contamination. A Contaminated Soil Contingency Plan shall be developed and implemented to handle treatment and/or disposal of contaminated soils.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm that contract documents include provisions to halt work in the event that contaminated soils is encountered, and that contractor shall develop a Contaminated Soil Contingency Plan (CSCP).</p> <p>2. Confirm contractor develops a CSCP.</p> <p>3. Verify contractor implements the CSCP, if contaminated soils are encountered.</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<p>Impact 3.8-7: Potential to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan</p>	<p>MM 3.8-7: Develop and Maintain Emergency Response Strategies. Prior to construction, the lead agency for each project component shall develop strategies for emergency response within their construction area in coordination with local emergency services. Strategies shall include, but are not limited to, maintaining access over trenches through the use of steel trench plates, identification of alternate</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm that contract documents include development of emergency</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p>

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Impact 3.16-3: Potential to result in inadequate emergency response	routes, and notification of local emergency services of timing and location of construction activities.	<ul style="list-style-type: none"> • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>response strategies and coordination.</p> <p>2. Verify contractor coordinated with local emergency services to develop emergency response strategies</p> <p>3. Verify that strategies are implemented</p>		3. _____
Impact 3.8-8: Potential to expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands	MM 3.8-8: Prevention of Fire Hazards. The lead agency for each project component shall require that construction equipment staging areas shall be cleared of dried vegetation or other material that could ignite, and equipment that heats up during use shall be stored only in areas cleared of vegetation. All equipment shall be kept in good working order and equipped with spark arrestors to prevent potential sparks, and a spotter shall be utilized during all welding activities. Fire extinguishers shall be made available at all construction sites, and construction employees shall be trained on proper fire safety and prevention measures.	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm requirements for fire prevention are included in the contract documents</p> <p>2. Confirm that contract documents include commitment to maintaining fire extinguishers at all construction sites and fire prevention training provided to personnel</p> <p>3. Confirm that construction employees received</p>	<p>1. Design</p> <p>2. Design</p> <p>3. Pre-construction</p> <p>4. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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		<ul style="list-style-type: none"> • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>fire prevention training</p> <p>4. Verify that measures are implemented</p>		
Hydrology and Water Quality						
<p>Impact 3.9-3: Potential for the potable-reuse component of the Proposed Project to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level, or result in groundwater quality impacts</p> <p>Impact 3.17-1: Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board; require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects; or result in a determination by the wastewater treatment provider which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments</p>	<p>MM 3.9-3 Conduct Potable Reuse Technical Investigations and Mitigation. The individual Coalition members that are lead agencies for the potable reuse components involving surface water reservoirs or groundwater basins shall conduct the necessary technical studies and modeling to characterize the existing condition of the water body(s) and the anticipated effects from potable reuse operation, on both volume and water quality. Recommendations of the technical analyses shall be incorporated into the subsequent environmental documentation to ensure that potable reuse operations are compliant with the appropriate San Diego RWQCB (NPDES) or DDWEM (GRRP) permits. The surface and groundwater basins used for potable reuse operations shall be managed to ensure that overdraft does not occur. Dilutant water could be provided, as directed by RWQCB and DDWEM, to ensure that water quality is protected within relevant water bodies. Advanced treatment of the recycled water would be expected to include microfiltration, reverse osmosis, advanced oxidation, and disinfection, but details of treatment processes could be adjusted to ensure appropriate water quality for the discharge or injection. Water quality could also be ensured by specifying appropriate locations of discharge, percolation, or injection areas and extraction areas, to allow adequate residence times in the water body.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group D: City of Escondido • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group K: Santa Fe ID • Group N: Vallecitos WD <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • San Luis Rey WWTP and AWT: City of Oceanside • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • Escondido AWTF: City of Escondido 	Same as Party Responsible for Implementation and Reporting	<p>1. Verify completion of technical studies and modeling</p> <p>2. Confirm recommendations of technical analyses are incorporated into the subsequent environmental documentation for compliance with appropriate NPDES or DDWEM permits.</p> <p>3. Monitor potable reuse operations to ensure that overdraft does not occur.</p>	<p>1. Planning/pre-design</p> <p>2. Planning/pre-design</p> <p>3. Operation</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<p>Impact 3.9-4: Potential to substantially alter the existing drainage pattern of the site or area, contribute runoff that exceeds the</p>	<p>MM 3.9-4 Stormwater Capacity at Above-Ground Facilities. The Coalition members, as lead agency for their individual project components, shall design and install/improve onsite stormwater facilities to accommodate runoff from above-ground facilities such that flooding would not occur offsite. Landscaped or other pervious</p>	<p>Coalition Members Responsible for Above-Ground Facilities in:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido 	Same as Party Responsible for Implementation and Reporting	<p>1. Confirm that the design and construction contract documents include</p>	<p>1. Design</p> <p>2. Operation</p>	<p>1. _____</p>

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<p>capacity of existing or planned stormwater drainage systems, place structures within a 100-year flood hazard area, which result in flooding and thereby expose people and structures to the risk of injury or loss</p> <p>Impact 3.17-2: Potential to require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects</p>	<p>areas may be designed and constructed to effectively receive and infiltrate, retain, and/or treat runoff from impervious areas, prior to discharging to the MS4. Onsite stormwater facilities may include biofiltration swales, retention ponds, and other low impact development (LID) techniques.</p>	<ul style="list-style-type: none"> • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>applicable onsite stormwater facilities.</p> <p>2. Monitor success and operation of onsite facilities to ensure performance as designed.</p>		<p>2. _____</p>
Noise						
<p>Impact 3.12-1: Potential to expose persons to or generate noise levels in excess of standards established in local general plan or noise ordinances or applicable standards of other agencies</p> <p>Impact 3.12-2: Potential to expose persons to or generation of excessive groundborne vibration or groundborne noise levels</p> <p>Impact 3.12-3: Potential for a substantial temporary/periodic or permanent increase in ambient noise levels in the project vicinity</p>	<p>MM 3.12-1a: Noise and Vibration Control During Construction. The Coalition members shall incorporate into contract specifications for all proposed components the following noise and vibration control measures:</p> <ul style="list-style-type: none"> • Impact equipment (e.g., jack hammers, pavement breakers, and rock drills) used for project construction will be hydraulically or electrically powered whenever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed air exhaust would be used. This muffler can lower noise levels from the exhaust by up to 10 dBA. External jackets on the tools themselves would be used where feasible, and this could achieve a reduction of 5 dBA. Quieter procedures will be used such as drilling rather than impact equipment whenever feasible. • Wherever possible, sonic or vibratory pile drivers will be used instead of impact pile drivers. If sonic or vibratory pile drivers are not feasible, acoustical enclosures will be provided as necessary to reduce noise levels. Engine and pneumatic exhaust controls on pile drivers will be required as necessary to 	<p>Coalition Members Responsible for Components in:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm noise reduction measures are included in contract documents.</p> <p>2. Confirm noise reduction measures are implemented during construction.</p>	<p>1. Design</p> <p>2. Construction</p>	<p>1. _____</p> <p>2. _____</p>

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<p>above levels existing without the project</p> <p>Impact 3.15-1: Effects of project construction on recreation facilities</p>	<p>ensure that exhaust noise from pile driver engines are minimized to the extent feasible. Where feasible, pile holes will be pre-drilled to reduce potential noise and vibration impacts. No impact pile drivers shall be used in the vicinity of sensitive receptors unless necessary. For above-ground facilities, temporary noise barriers may be erected at some locations to reduce noise impacts to residents adjacent to construction sites.</p> <ul style="list-style-type: none"> Comply with compaction standards for backfill. Vibration generated during soil compaction may be minimized by using a small compactor. During sheetpile driving for the trench excavation, use the following measures: pushing the sheetpile in as far as possible with the excavator CAT before using the vibrator; using a small, hand-operated vibratory hammer or one with a different operational frequency to further reduce the vibration potential; flooding the soils before tamping with the vibrator; and/or operating the vibratory CAT with “throttling” when a vibrator must be used. All equipment and trucks used for project construction shall use the best available noise control techniques (including mufflers, use of intake silencers, ducts, engine enclosures and acoustically attenuating shields or shrouds) and be maintained in good operating condition to minimize construction noise impacts. All internal combustion engine-drive equipment shall be fitted with intake and exhaust mufflers which are in good condition. Unnecessary idling of internal combustion engines shall be prohibited. In practice, this would mean turning off equipment if it would not be used for five or more minutes. Stationary noise-generating construction equipment, such as air compressors and generators, shall be located as far as possible from homes and businesses. Staging areas shall be located as far as feasibly possible from sensitive receptors. For construction activities anticipated to generate noise above local standards even with the noise attenuation measures listed above, timing and length of construction activities generating excessive noise shall be adjusted to maintain average or impulsive noise levels within acceptable limits, as set forth in applicable local regulations. 	<p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> El Corazon Site: City of Oceanside San Luis Rey WWTP and AWT: City of Oceanside Carlsbad WRF: Carlsbad MWD Gafner WRF: Leucadia WWD Encina WPCF: Encina Wastewater Authority Meadowlark WRF and AWT: Vallecitos WD San Elijo WRF: San Elijo JPA HARRF: City of Escondido Escondido AWTF: City of Escondido Harmony Grove WRF: Rincon del Diablo 				
<p>Impact 3.12-1: Potential to expose persons to or generate noise levels in excess of standards established in local general plan or noise ordinances or applicable standards of other agencies</p> <p>Impact 3.12-3: Potential for a substantial temporary/periodic or permanent increase in ambient noise levels in the project vicinity above levels existing without the project</p>	<p>MM 3.12-1b: Pre-Construction Notification. Prior to construction, written notification to residents within 500 feet of the proposed facilities undergoing construction shall be provided, identifying the type, duration, and frequency of construction activities. Notification materials shall also identify a mechanism for residents to register complaints with Coalition members if construction related noise impacts should occur.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> Group A: Carlsbad MWD Group C: City of Escondido Group D: City of Escondido Group E: San Elijo JPA Group G: City of Oceanside Group H: Olivenhain MWD Group I: Rincon del Diablo MWD Group J: Rincon del Diablo MWD Group K: Santa Fe ID Group M: Vallecitos WD Group N: Vallecitos WD Group O: Vista ID 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm pre-construction notification measures are included in the contract documents, and that notification materials provide mechanism to register construction-related noise complaints.</p> <p>2. Verify that notification materials were distributed to</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

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		Coalition Members Responsible for Treatment Plants: <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		appropriate residents. 3. Document any construction-related noise complaints received through the designated mechanism.		
<p>Impact 3.12-1: Potential to expose persons to or generate noise levels in excess of standards established in local general plan or noise ordinances or applicable standards of other agencies</p> <p>Impact 3.12-2: Potential to expose persons to or generation of excessive groundborne vibration or groundborne noise levels</p> <p>Impact 3.12-3: Potential for a substantial temporary/periodic or permanent increase in ambient noise levels in the project vicinity above levels existing without the project</p> <p>Impact 3.15-1: Effects of project construction on recreation facilities</p>	<p>MM 3.12-1c: Noise and Vibration Minimization during Operation. Coalition members shall design the proposed pumps and mechanic, noise-generating equipment at treatment plants to ensure that operational noise levels at the property line do not exceed the affected jurisdictions' noise ordinance standards. Coalition members shall implement the following noise minimization measures to the extent they are feasible:</p> <ul style="list-style-type: none"> • Noise-generating facilities shall be located as far away from sensitive receptors as possible. • Shielding and other specified measures as deemed appropriate and effective by the design engineer would be incorporated into the design to comply with performance standards. • Project equipment shall be outfitted and maintained with noise-reduction devices such as equipment closures, fan silencers, mufflers, acoustical louvers, vents, noise barriers, and acoustical panels to minimize operational noise. • The orientation of any necessary acoustical exits shall always be facing away from nearby sensitive receptors. • Berms or noise walls shall be incorporated, where appropriate, to absorb and/or redirect noise away from nearby sensitive receptors. Contractors shall test each pump and its drive system and any other mechanical devices that generate vibration after installation to confirm that the equipment has been properly installed, aligned and connected, is free of defects and excessive noise and vibration. If the testing indicates noncompliance with the affected jurisdictions' noise ordinances, additional measures (e.g., installation of sound proofing material inside the wall; installation of sound dampening material around the valves) shall be taken until compliance can be demonstrated. 	Coalition Members Responsible for: <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID Coalition Members Responsible for Treatment Plants: <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA 	Same as Party Responsible for Implementation and Reporting	1. Confirm noise and vibration minimization measures are included in the design contract documents. 2. Verify that vibration-generating equipment is tested after installation 3. Confirm additional noise and vibration minimization measures are implemented if testing finds noncompliance with applicable noise ordinances. 4. Verify noise and vibration minimization measures were implemented.	1. Design 2. Construction 3. Construction 4. Post-construction	1. _____ 2. _____ 3. _____ 4. _____

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		<ul style="list-style-type: none"> • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 				
Impact 3.12-2: Potential to expose persons to or generation of excessive groundborne vibration or groundborne noise levels	<p>MM 3.12-2: Geotechnical Evaluation and Mitigation. Once the locations of the proposed facilities have been identified, Coalition members shall determine the type of structures that would be located in the vicinity of the proposed facilities. The lead agency for each project component shall retain a licensed geotechnical engineer(s) to prepare design-level geotechnical evaluations to include verification that performance standards for vibration impacts, as established by the Caltrans vibration damage potential guidelines, can be attained. Coalition members shall include trench-excavation and trench-wall support systems designed to protect against settlement and vibration impacts, where structures and other utilities are in close proximity to the proposed excavation, in accordance with Occupational Safety and Health Administration (OSHA) standards or as designed by a registered engineer. All recommendations to attain these performance standards shall be incorporated into the project design.</p>	Coalition Members Responsible for: <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID Coalition Members Responsible for Treatment Plants: <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	Same as Party Responsible for Implementation and Reporting	<ol style="list-style-type: none"> 1. Confirm retention of a licensed geotechnical engineer(s) and design-level geotechnical evaluation requirements are included in the contract documents. 2. Verify structure types were identified in the vicinity of the project 3. Confirm that geotechnical report verifies that vibration impact performance standards can be attained 4. Confirm that design and construction contracts include trench-excavation and trench-wall support systems for areas where structure and other utilities are in close proximity to construction activities 5. Verify that vibration protection measures meet OSHA standards and/or are constructed as designed 	<ol style="list-style-type: none"> 1. Design 2. Design 3. Design 4. Design 5. Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____
Recreation						

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.1-1: Potential to have a substantial adverse effect on a scenic vista or scenic resources</p> <p>Impact 3.15-1: Effects of project construction on recreation facilities</p>	<p>MM 3.15-1: Minimize Storage of Construction Equipment Near Recreational Facilities. To the extent possible, Coalition members shall attempt to locate construction staging areas away from open space and recreational facilities and viewsheds. Locating these staging areas away from recreational facilities and viewsheds will reduce the visual impacts associated with locating these staging areas near or adjacent to recreational facilities. If a staging area must be located near or adjacent to a recreational facility, the Coalition shall make every reasonable attempt to keep the area free and clean of rubbish and debris by promptly removing all such material from the site so as not to detract from the overall experience of the recreational facility.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm construction staging location recommendations are included in the contract documents.</p> <p>2. Verify that contractors make a good-faith effort to feasibly locate staging areas away from recreational facilities and viewsheds.</p> <p>3. Verify contractors keep staging areas free and clean of rubbish and debris if staging areas located near recreational facilities and/or viewsheds.</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
Transportation and Traffic						
<p>Impact 3.14-1: Potential to result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection, police protection,</p>	<p>MM 3.16-1: Traffic Management Plan. Prior to construction of each project component, a traffic management plan shall be developed and implemented. Such a plan shall include, but is not limited to, determination of construction staging site locations and potential road closures, as well as identify alternate routes for detours, and planned routes for construction-related vehicle traffic, and identification of alternative safe routes and policies to maintain safety along bike routes during construction. For those Groups with pipelines located within the County of San Diego whose construction would require road closures, the traffic management plan shall incorporate the relevant policies and measures applicable to road closures as described in the County of San Diego's Traffic Guidelines. As part of plan development, Coalition members shall coordinate with the police, fire, and other emergency services to alert these entities about potential construction delays. To the extent possible, Coalition members shall minimize the duration of disruptions/closures</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD 	<p>San Diego County, Caltrans, Coalition Members Listed as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm requirement for a Traffic Management Plan (TMP) is included in the contract documents.</p> <p>2. Confirm TMP was developed in coordination with relevant emergency services providers,</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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<p>schools, parks, or other public facilities</p> <p>Impact 3.16-1: Potential to conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system or conflict with a congestion management program</p> <p>Impact 3.16-2: Potential to result in hazards due to incompatible uses</p> <p>Impact 3.16-3: Potential to result in inadequate emergency response</p> <p>Impact 3.16-4: Potential to conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities</p>	<p>to roadways and critical access points for emergency services. Coalition members shall also coordinate with any affected recreational facilities owners/operators to minimize the duration of disruptions/closures to recreational facilities and adjacent access points. The traffic management plan shall provide for traffic control measures including flag persons, warning signs, lights, barricades and cones to provide safe passage of vehicular, bicycle and pedestrian traffic and access by emergency responders. This plan shall be submitted to local planning or public works departments for review, and any necessary permits acquired prior to construction.</p>	<ul style="list-style-type: none"> • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>and affected recreational facilities</p> <p>3. Review and approve TMP, and confirm submittal to local planning or public works departments.</p> <p>4. Confirm measures are implemented during construction</p>		
<p>Impact 3.16-4: Potential to conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities</p>	<p>MM 3.16-4: Rail Crossing Plan. During design and construction of pipelines that include railway crossings, all efforts shall be made to design and construct pipelines in such a manner to avoid interruption or delay of rail service. If such interruption cannot be feasibly avoided, construction or activities that interrupt service shall not occur during morning or evening commute times, and alternative service (e.g., shuttle) shall be provided during rail service interruption. Notification of the extent, location, and duration of potential service interruption shall be posted at all transit stations serving the impacted railway.</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group G: City of Oceanside • Group I: Rincon del Diablo MWD • Group M: Vallecitos WD <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • HARRF: City of Escondido 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Confirm requirements for avoidance of or mitigation measures for interruption or delay of rail service in the contract documents.</p> <p>2. Confirm notification of service interruptions, if needed.</p> <p>3. Confirm service interruption timing and alternate service availability measures are implemented during construction.</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
Environmental Justice						
<p>Impact 5.1-1: Cause impacts to minority or low-income populations that are disproportionately high and adverse, either directly, indirectly, or cumulatively.</p>	<p>MM 5.1-1 Screening Analysis and Mitigation of Potential Environmental Justice Impacts. Once project facilities are finalized, Coalition members shall conduct a screening-level environmental justice analysis, using the most recent income and demographic data available at that time. For those project components found to be constructed within or near an environmental justice community, efforts shall be made</p>	<p>Coalition Members Responsible for:</p> <ul style="list-style-type: none"> • Group A: Carlsbad MWD • Group C: City of Escondido • Group D: City of Escondido • Group E: San Elijo JPA 	<p>Same as Party Responsible for Implementation and Reporting</p>	<p>1. Completion of screening-level environmental justice analysis</p>	<p>1. Planning/ pre-Design</p> <p>2. Design</p>	<p>1. _____</p>

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	<p>to reduce environmental justice impacts to less than significant levels. These efforts may include, but are not limited to, avoiding environmental justice communities when making design decisions (e.g., moving pipeline alignments to avoid environmental justice communities), incorporating impact-reducing features into facility design (e.g., include additional sound-proofing or odor control measures in facility design), and including additional mitigation measures to further reduce any potentially disproportionate impacts to environmental justice communities.</p>	<ul style="list-style-type: none"> • Group G: City of Oceanside • Group H: Olivenhain MWD • Group I: Rincon del Diablo MWD • Group J: Rincon del Diablo MWD • Group K: Santa Fe ID • Group M: Vallecitos WD • Group N: Vallecitos WD • Group O: Vista ID <p>Coalition Members Responsible for Treatment Plants:</p> <ul style="list-style-type: none"> • El Corazon Site: City of Oceanside • San Luis Rey WWTP and AWT: City of Oceanside • Carlsbad WRF: Carlsbad MWD • Gafner WRF: Leucadia WWD • Encina WPCF: Encina Wastewater Authority • Meadowlark WRF and AWT: Vallecitos WD • San Elijo WRF: San Elijo JPA • HARRF: City of Escondido • Escondido AWTF: City of Escondido • Harmony Grove WRF: Rincon del Diablo 		<p>2. Confirm that measures to avoid or reduce impacts to environmental justice communities to the extent feasible be incorporated into design and construction contract documents, if applicable.</p> <p>3. Confirm additional mitigation measures, if applicable, are implemented.</p>	<p>3. Construction</p>	<p>2. _____</p> <p>3. _____</p>