



DEPT. OF WATER RESOURCES
DIV. SAFETY OF DAMS

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DEPARTMENT OF WATER RESOURCES
DIVISION OF SAFETY DAMS

SAN CLEMENTE DAM SEISMIC SAFETY PROJECT

EXHIBIT D

**Mitigation Monitoring and
Reporting Program (MMRP) for the Final
EIR/EIS and Final SEIR**

JULY 2012

California State Clearinghouse #2005091148

1.0 MITIGATION MONITORING AND REPORTING PROGRAM

1.1 Introduction

This Mitigation Monitoring and Reporting Program (MMRP) report includes mitigation measures identified in the Final Environmental Impact Report/Environmental Impact Statement (Final EIR) and Final Supplement to the Final Environmental Impact Report (Final SEIR) for the San Clemente Dam Seismic Safety Project. The impacts associated with this project and required mitigation measures are summarized in this program; the full text of the impact analysis and mitigation measures is presented in the Department of Water Resources (DWR) and the United States Army Corps of Engineers Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) and the DWR Final SEIR. The Final EIR and Final SEIR analyzed the impacts for the proposed project. This MMRP outlines the mitigation monitoring and reporting for the proposed project.

1.2 Purpose

The purpose of the MMRP is to ensure compliance with all mitigation measures designed to mitigate or avoid potentially significant adverse environmental impacts that could result from implementation of Alternative 3, as identified in the Final EIR/EIS and in the Final SEIR. Implementation of this MMRP shall be accomplished by the Project Proponent (CAW), and its agents. Project-specific mitigation measures will be implemented during the time frames specified in the MMRP, and reports will be generated to document implementation of the mitigation measures. Copies of all reports identified in the MMRP will be sent to the Department at the same time they are submitted to the designated regulatory agencies.

1.3 Summary Project Description

Alternative 3 involves reroute of the Carmel River and complete removal of the San Clemente Dam (SCD), which is owned and operated by CAW. The proposed improvements are intended to comply with the Department's Division of Safety of Dams (DSOD) requirements to address safety deficiencies and eliminate the risk of failure during a Maximum Credible Earthquake (MCE) or Probable Maximum Flood (PMF) event.

Components of Alternative 3 as proposed by CAW include:

- Dewater the plunge pool
- Remove approximately 830,000 cubic yards of sediment behind the SCD
- Permanently bypass a portion of the Carmel River by excavating a 450-foot channel between the Carmel River and San Clemente Creek
- Improve existing access roads
- Construct a new access road
- Improve an existing one-lane bridge on Cachagua Road
- Create staging areas
- Completely demolish the SCD and fish ladder
- Construct a new facility to divert water to replace the existing diversion at the SCD

This project is expected to take three to five years to complete, including environmental review, permitting, design, infrastructure improvements, sediment removal, bypass channel excavation, diversion dike construction, dam demolition, and creek channel reconstruction. A complete analysis of the components of Alternative 3 is located in Chapter 4 of the Final EIR/EIS and in the Final SEIR. The Project purpose, need, and objectives are addressed in Chapter 1, Section 1.4 of the Final EIR/EIS and in the Final SEIR.

1.4 Responsibilities and Duties

The Department would be responsible for ensuring that that mitigation measures are implemented during construction and restoration activities of Alternative 3. CAW and its agents shall be responsible for implementation of the mitigation measures and for the monitoring and reporting associated with those measures. In general, monitoring will consist of demonstrating that mitigation measures are implemented, and that the responsible entities monitored the implementation of the measures. CAW is responsible for ensuring that copies of all reports identified in the MMRP are sent to the Department at the same time they are submitted to the designated regulatory agencies.

1.5 Mitigation Monitoring and Reporting Plan Matrix

All project-specific mitigation measures included in the Final EIR/EIS and in the Final SEIR would be monitored in conjunction with the MMRP for implementation of Alternative 3. The following MMRP matrix includes all of the applicable mitigation and monitoring information for implementation of Alternative 3, the Carmel River Reroute and Dam Removal Project.

MITIGATION MONITORING AND REPORTING PROGRAM DETERMINATION

I adopt the Mitigation Monitoring and Reporting Program set forth in this Exhibit D, which meets the requirements of CEQA Guidelines Section 15091(d).

Michael Waggoner For D. Gutierrez

David A. Gutierrez
Chief, Division of Safety of Dams
Department of Water Resources

JUL 27 2012

Date

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
4.1 Geology and Soils				
<p>GS-2: Qualified Geotechnical Engineer or Engineering Geologist will conduct pre-construction surveys for design specifications, develop slope stabilizing BMPs for design specifications, and implement appropriate BMPs in SWPPP (Appendix K) such as, use matting or netting, mulch areas, seed after final grading, implement and maintain a revegetation program, adhere to permit requirements. A 10-year post-construction monitoring program will be executed.</p>	<p>Monitor project construction area for compliance with design specifications, slope stability, implementation of BMPs, and with the post-construction monitoring program. Monitoring results will be reported to CCRWQCB, Monterey County, USACE, CDFG, USEPA and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submits written report within 5 days.</p> <p>Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p>	<p>USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department</p>
<p>GS-4: Stabilize sediment slopes with rock and clean concrete, use in-situ treatments, construct channel to route storm flows.</p>	<p>Monitor and maintain erosion control methods. Inspect cut slopes to prevent failure. Monitor project construction area for</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with</p>	<p>USEPA, CCRWQCB, USACE, CDFG, Monterey County</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>Implement erosion control methods and BMPs in SWPPP (Appendix K) including, no fill placed on canyon walls above river, use retaining walls, adequately size and locate erosion control facilities, use filter fabrics, berms, hay bales and other erosion control methods, construct spill and spoil areas to prevent silt and clay erosion, control surface drainage from cut, fill, borrow, and disposal areas. Inspect cut slopes to prevent slope failures and temporary wall rock raveling, use blasting mats to capture and direct rock debris, erect temporary walls adjacent to existing access road to contain blasted rock, permanently revegetate disturbed areas immediately after completing road improvements. If necessary, implement temporary revegetation and erosion control, install over-wintering protection to prevent undermining or washout, adhere to permit requirements.</p>	<p>compliance with implementation of BMPs, and with the post-construction monitoring program. Monitoring results will be reported to CCRWQCB, Monterey County, USACE, CDFG, USEPA and DWR.</p>		<p>no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p>	<p>Planning and Building Inspection Department</p>
<p>GS-5: Implement measures in the blasting plan such as controlling excessive vibration by limiting the size of charges and using charge delays. Follow procedures for safe storage, handling, loading, firing, and disposal of explosive materials.</p>	<p>Monitor compliance with blasting plan and report to Monterey County and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Monitor throughout blasting activities.</p> <p>Monthly monitoring reports will be submitted to Monterey County.</p>	<p>Monterey County Planning and Building Inspection Department</p>

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Implement blasting BMPs in the SWPPP (Appendix K) including use of blasting mats and fabric barriers.				
4.2 Hydrology and Water Resources				
<p>WR-2a: To minimize, following sediment excavation, construct geomorphically stable channels through the reservoir to the confluence of the San Clemente Creek and Carmel River channels. Construct channels with dimensions necessary to convey flows and sediment loads. Form a relatively wide river/creek valley that generally follows the 1921 contours along the upper reaches of the river/creek. Create a bankfull and thalweg channels with limited grading of the existing alluvial deposits. The bankfull channel will be sized to hold a two-year event. The low-flow channel will pass median annual flows.</p> <p>Implement bank stabilization measures including use of vegetative matter and plantings to limit erosion and sediment transport. A stream restoration plan will be prepared as part of final design for this alternative, and will include mitigation for the increase in sediment supply following construction.</p>	<p>Monitor compliance with design specifications, and report to CCRWQCB, USEPA, NMFS, CDFG, USFWS, Monterey County, and DWR.</p> <p>Monitor bank stabilization and erosion control measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Monitor compliance with design specifications daily throughout construction. Submit monthly reports to agencies.</p> <p>Bank stabilization and erosion control measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather</p>	<p>USFWS, CCRWQCB, USACE, CDFG, NMFS, and Monterey County Planning and Building Inspection Department</p>

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<p>Revegetate the hillsides to reduce the long-term potential for sediment erosion as discussed in Appendix K (SWPPP) and Appendix U (Botanical Resources Management Plan).</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with revegetation and erosion control measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>		<p>conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days.</p> <p>Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p> <p>Revegetation monitoring will begin immediately following planting. Monitoring shall be conducted during years 1, 2, 3, and 5 following planting. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring shall also be conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p>	
<p>WR-2b: To minimize, implement</p>	<p>Monitor compliance with design</p>	<p>Applicant's Environmental</p>	<p>Bank stabilization and erosion</p>	<p>USFWS,</p>

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<p>water quality protection measures in SWPPP (Appendix K) including, design geomorphologically stable channels following sediment excavation, form a wide river/creek channel following the 1921 contours along upper reaches. Create a bankfull channel designed to contain a two-year event; create a lowflow channel capable of passing median annual flows; limit grading when constructing channels.</p> <p>Stabilize channel banks using plant material, revegetation and other methods. Immediately after initial soil disturbance, install sediment barriers, straw bales, silt fences, sand bags, small catch basins, water bars, check dams, filter fabrics and conduct surface roughening to prevent sediment from entering river. Install diversion facility to settle turbid water before releasing downstream. Complete cleanup and installation of permanent erosion controls within 10 days of final construction. If reseeding or revegetating an area must be delayed more than 30 days prior to the perennial vegetation seeding season, then area must be mulched with 3 tons/acre of straw, or its equivalent, for a</p>	<p>specifications, bank stabilization measures and revegetation measures and report to CCRWQCB, USEPA, NMFS, CDFG, USFWS, Monterey County, and DWR.</p>	<p>Inspector and Project Engineer</p>	<p>control measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p> <p>Revegetation monitoring will begin immediately following planting. Monitoring shall be conducted during years 1, 2, 3, and 5 following planting. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring shall also be conducted in the year 10 following planting. Reports will be submitted to the agencies after</p>	<p>CCRWQCB, USACE, CDFG, NMFS, and Monterey County Planning and Building Inspection Department</p>

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<p>minimum of 100 feet on each side of the water body; adhere to permit requirements.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>			<p>the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p>	
<p>WR-3b: Both the reconstructed channel and the new bypass channel will be designed to allow fish passage. The design will include runs and pools that reflect a geomorphically stable channel and the passage requirements for the fish.</p>	<p>Monitor compliance with design specifications, and report to CCRWQCB, USEPA, NMFS, CDFG, USFWS, Monterey County, and DWR.</p>	<p>Applicant's Project Engineer and Environmental Inspector</p>	<p>Monitor compliance with design specifications daily throughout construction. Submit monthly reports to agencies.</p>	<p>USFWS, CCRWQCB, USACE, CDFG, NMFS, and Monterey County Planning and Building Inspection Department</p>
<p>WR-4b: No mitigation is available.</p>				
<p>WR-7: The point of diversion will be operated to maintain fish passage flows in Carmel River in January through May while also providing the necessary water supply to the downstream community. Additional mitigation for the change in the point of diversion may be added by the State Water Resources Control Board (SWRCB) during the permit process.</p>	<p>Monitor compliance with operation of point of diversion and report to the SWRCB, NMFS, CDFG, USFWS, and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitor compliance with fish passage flows daily January through May and report monthly to the agencies during this time period.</p>	<p>SWRCB, NMFS, CDFG, USFWS</p>
<p>4.3 Water Quality</p>				
<p>WQ-1: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including construct sediment barriers; use straw bales, silt</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-</p>	<p>U.S. EPA, CCRWQCB USACE, CDFG, Monterey County Planning and Building Inspection</p>

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<p>fences, sandbags and water bars; adhere to permit requirements.</p>			<p>hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p>	<p>Department</p>
<p>WQ-2: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including use small catch basins, filter fabrics, tarps and straw bales, maintain and monitor erosion control methods for effectiveness, adhere to permit requirements. Revegetate stream margins with native species as specified in Botanical Resources Management Plan (Appendix U).</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p> <p>Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written</p>	<p>U.S. EPA, CCRWQCB USACE, CDFG, Monterey County Planning and Building Inspection Department</p>

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			<p>report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction erosion control and water quality protection monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p> <p>During construction, conduct monitoring annually on all revegetated areas and areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting.</p> <p>Revegetation monitoring reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p>	
<p>WQ-3: Implement erosion control and water quality BMPs and monitoring methods in the SWPPP and SPCC (Appendices</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County,</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with</p>	<p>U.S. EPA, CCRWQCB USACE, CDFG, Monterey County</p>

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<p>K and R) including refuel construction equipment and vehicles in designated area where spills can be contained, store fuels in double- contained areas capable of storing 150 percent of fuel volume, conduct truck and cement washdown outside the high water mark area, check and maintain equipment operated within high water mark to prevent leaks, daily remove litter and debris and properly dispose of, store all construction equipment in staging area at end of each day, adhere to permit requirements. Vehicles containing over 150 gallons of fuel will have a spill prevention plan and spill cleanup materials.</p>	<p>USACE, CDFG, and DWR.</p>		<p>no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for one year, and reports will be submitted to the agencies monthly.</p>	<p>Planning and Building Inspection Department</p>
<p>WQ-5: Implement provisions of SWPPP (Appendix K) including designing pipeline for rapid transport of water around construction site and to minimize water heating; use white or reflective paint on pipeline; monitor stream temperatures, dissolved oxygen, and turbidity for NMFS and CDFG steelhead requirements; mix bypass flow with water from the upstream well point field if water temperatures in the Carmel</p>	<p>Monitor compliance with water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Daily monitor stream temperatures, D.O., and turbidity to meet NMFS and CDFG steelhead requirements. During construction: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be</p>	<p>USEPA, USACE, NMFS, CDFG, CCRWQCB, Monterey County Planning and Building Inspection Department</p>

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<p>River exceed criteria; adhere to permit conditions.</p>			<p>submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p>	
<p>WQ-6: Install energy dissipation structures where bypassed project water is discharged to prevent scouring, sedimentation and turbidity; adhere to permit requirements.</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the</p>	<p>USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department</p>

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			CCRWQCB.	
<p>WQ-7: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including, use filter cloths or other fabric barriers, remove sand-sized and finer construction fill, and angular crushed rock, and dispose offsite at an appropriate location, adhere to permit conditions.</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5-inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p>	<p>USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department</p>
<p>WQ-8: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including use settling basin and sedimentation tank located above ordinary high water zone, monitor discharge and receiving waters, return only clear water to stream, dispose of settled solids</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be</p>	<p>USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department</p>

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<p>at appropriate site, discontinue discharge if effluent water quality doesn't meet criteria, implement additional filtration if necessary, adhere to all permit conditions.</p>			<p>submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Conduct post-construction monitoring until all water is discharged, settled solids are disposed of appropriately, and the settling basins are removed.</p>	
<p>WQ-9: Use settling basins and filtration systems to treat ground and surface water pumped from reservoir before water is discharged to the Carmel River. Even with implementation of this measure, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Monitor daily during reservoir drawdown.</p>	<p>USEPA, CCRWQCB, USACE, NMFS, USFWS, CDFG, Monterey County Planning and Building Inspection Department</p>
<p>WQ-10: No mitigation is available.</p>				
<p>WQ-12: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including, use small catch basins, filter fabrics, tarps and straw bales. Use filter cloths or</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater</p>	<p>USEPA, CCRWQCB, USACE, CDFG and Monterey County Planning and Building Inspection</p>

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<p>other fabric barriers, remove sand-sized, and finer construction fill, and angular crushed rock, and dispose offsite at an appropriate location. Refuel construction equipment and vehicles in designated area where spills can be contained; store fuels in double- contained areas capable of storing 150 percent of fuel volume. Conduct truck and cement washdown outside of high water mark, check and maintain equipment operated within high water mark to prevent leaks. Daily remove litter and debris and dispose of properly, store all construction equipment in staging area at end of each day. Vehicles containing over 150 gallons of fuel will have a spill prevention plan and spill cleanup materials. Adhere to all permit conditions.</p>			<p>rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for one year, and reports will be submitted to the agencies monthly.</p>	<p>Department</p>
<p>WQ-14: Implement appropriate erosion control and water quality protection and monitoring BMPs in SWPPP and SPCC (Appendices K and R) including: use straw bales, silt fences, sandbags and water bars, small catch basins, filter cloths or other fabric barriers, and tarps to prevent sediment, other particulate matter and chemicals from entering the Carmel River or other surface and</p>	<p>Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance</p>	<p>USEPA, CCRWQCB, USACE, NMFS, CDFG and Monterey County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>groundwater resources.</p> <p>Use blasting mats, as appropriate, and place fabric barriers on the ground in active construction and demolition areas to catch sediment and cement debris.</p> <p>Contractor will store fuel, petroleum products, potentially hazardous materials and raw materials in secondary containment structures in the construction yard. Construction yard will be at least 100 ft from the edge of all water bodies, 200 ft from all groundwater wells and 400 ft from all public wells. Bulk storage tanks will not be placed in areas subject to flooding or erosion. Restrict refueling, maintenance of construction equipment, and transfer of materials to cement mixer trucks to upland areas at least 100 ft from the edge of all water bodies and 150 ft from any water supply wells. Only the Environmental Inspector can approve refueling or transfer of materials within the restricted areas.</p> <p>Fuel and service truck drivers shall be responsible for controlling fuel operations, material transfers and spill prevention. A containment vessel and plastic sheeting will be placed under equipment</p>			<p>within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p>	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>before materials are removed or transferred. Equipment operators will be responsible for immediately reporting and mitigating spills. Contractor will maintain sufficient (at least 20 pounds) commercial absorbent and barrier materials at each construction yard. Equipment carrying over 150 gallons of fuel will carry individual spill prevention plans and will either carry materials sufficient to contain and clean up spills that may occur in transit or will be followed by a vehicle carrying sufficient response materials. All spills will be contained and cleaned up as soon as possible.</p> <p>Equipment will not be washed in any waterbody; at the end of each day, all construction equipment will be moved to the staging area above the high water mark. Litter and debris below the high watermark will be removed and appropriately disposed of daily; all other litter, debris, unused raw materials, equipment and supplies will be removed from the staging area at the end of the construction season.</p>				
<p>WQ-16: Implement BMPs in the SWPPP including stabilizing sediment slopes and disturbed areas with sediment barriers,</p>	<p>Monitor compliance with sediment slope stabilization, erosion control and water quality protection measures and report</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Slope stabilization, erosion control and water quality protection measures will be monitored daily during</p>	<p>USEPA, CCRWQCB, USACE, CDFG and Monterey</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>straw mulch and silt fences, providing sediment collection features such as silt bales and sandbags, establishing sediment traps along toe of the pile and other disturbed areas, monitoring erosion control methods for effectiveness and maintaining methods throughout construction operations, distributing a 2-foot layer of organic soil on sediment slope at the end of construction operations and seed, annually monitoring effectiveness of erosion protection methods in bypassed arm of Carmel River at the end of each rainy season for a period of 10 years, repairing or improving any erosion problems prior to the following rainy season using methods such as reinforcing sediment pile with rock and/or additional revegetation with native plants or trees.</p>	<p>to CCRWQB, Monterey County, USACE, CDFG, and DWR. Monitor compliance with revegetation measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>		<p>construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p> <p>Revegetation monitoring will begin immediately following planting. Monitoring shall be conducted during years 1, 2, 3, and 5 following planting. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring shall also be</p>	<p>County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
			<p>conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p>	
<p>WQ-17: Implement BMPs in SWPPP and SPCC including installation of small catch basins, filter traps, tarps, or straw bale barriers. Refuel construction equipment and vehicles in paved, bermed, designated areas; store fuel in double-contained areas capable of holding 125 percent of the volume of fuel being stored. Conduct truck and cement equipment wash-down outside of ordinary channel high water mark. Check and maintain equipment daily to prevent leaks of fuel, lubricants, or other fluids to the stream. Remove litter and construction debris from within the high water mark daily and dispose of appropriately; remove litter and construction debris outside the high water mark at end of construction season. Move all construction equipment to staging area to prevent accidental spills; vehicles carrying over 150 gallons of fuel will have a spill prevention plan and materials required to clean up a spill. Use filter cloth or</p>	<p>Monitor compliance with erosion control and water quality protection measures and blasting measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>		<p>Compliance with the Blasting Plan will be monitored throughout blasting activities.</p> <p>Erosion control and water quality protection measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days.</p> <p>Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p>	<p>USEPA, CCRWQCB, USACE, CDFG and Monterey County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>other fabric barrier placed on ground of active construction area to catch fine sediments, dispose of sand-sized and finer construction fill and any angular crushed rock at an appropriate off-site location. Use blasting mats to catch and direct flying rock and debris; dispose of blasted material at appropriate on-site location in Carmel River arm of reservoir.</p>				
<p>4.4 Fisheries</p>				
<p>FI-1: Limit tree and limb removal, implement measures to prevent roadfill from entering streams, revegetate streambanks, implement measures in SWPPP and Botanical Resources Management Plan (Appendices K and U). Use blasting mats and temporary walls to prevent rock fall and debris from entering river, implement BMPs to minimize sedimentation and turbidity, place roadfill on fabric or rubber liner, face roadfill with boulders or riprap sized too large for river to move during flood flows, implement erosion control and road drainage plan to eliminate aquatic impacts due to sedimentation and turbidity, revegetate disturbed areas. In the event of forecasted heavy participation, all temporary</p>	<p>Monitor compliance with tree removal erosion control and water quality protection measures, and compliance with Blasting Plan and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p> <p>Monitor compliance with revegetation measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Compliance with the Blasting Plan will be monitored throughout blasting activities.</p> <p>Throughout construction, for erosion control, water quality protection and in temporary and permanent revegetated areas, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5-inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Environmental Inspector will document all inspections in Environmental Daily Inspection Report Verbally report noncompliance within 24 hours</p>	<p>USEPA, USACE, NMFS, USFWS, CCRWQCB, CDFG and Monterey County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>erosion control devices needing repair or installation will be immediately installed or repaired.</p>			<p>from time applicant is first aware of aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p> <p>Revegetation monitoring will begin immediately after planting. Following planting, monitoring will be conducted during years 1, 2, 3, and 5. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring will also be conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after the final year of monitoring.</p>	
<p>FI-2: To minimize impacts, fish will be captured from affected reaches and relocated to sections of the Carmel River that would support them. Fish will be rescued by using block nets, seines and dip nets. Backpack electrofishing units will be used if bottom topography makes use of nets ineffective. Electrofishing</p>	<p>Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR.</p> <p>Monitor compliance with water quality protection measures and</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits.</p>	<p>NMFS, USFWS, CCRWQCB, CDFG and MPWMD</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>would follow guidelines established by NMFS (2000).</p> <p>Streamflow from the Carmel River upstream of SCD will be directed into flex pipes and inflowing water would be diverted around the plunge pool and the section of river to be dewatered. Once flow is diverted out of the channel, water levels would be reduced in the plunge pool and other sections of the river by pumping. Once water levels are lowered in a section of river, a fish rescue will begin and will continue until all possible fish are removed from the dewatered reach. Fish rescue will be completed prior to complete dewatering of a reach. Crews will search for stranded fish during the final phases of dewatering. Captured fish will be temporarily held in aerated coolers for transport. Rescued fish will be transported downstream and released into the Carmel River near the Carmel Valley Filter Plant or moved to the SHSRF if rearing capacity in the downstream release site is already at maximum capacity. Water quality would be protected during construction by implemented measures in the SWPPP. Other mitigation</p>	<p>report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>		<p>Compliance with water quality protection BMPs, will be inspected daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p>	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
measures provided by CDFG and NMFS will be adopted as specified.				
<p>FI-4: To minimize impacts, fish traps will be installed upstream of diversion points to capture downstream migrating fish so they can be transported around the diversion and continue downstream. Fish will be rescued from the diversion sites prior to constructing the diversion structures. Once the sheet piles are installed and the diversion pipes connected, water would be diverted into the pipes. Flow in the river channel downstream of the diversion will be reduced and the reduction in flow would facilitate fish rescues. A fish rescue would occur in the Carmel River and San Clemente Creek channels between the diversion point and the reservoir. Block nets would be set near the mouth of each stream to prevent fish from moving upstream of the reservoir. Once all fish are rescued from the channels, all flow would be directed into the bypass pipes. Other mitigation measures provided by CDFG and NMFS will be adopted as specified.</p>	<p>Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits.</p>	<p>NMFS, USFWS, CCRWQCB, CDFG, and MPWMD</p>
<p>FI-5: During reservoir dewatering, nets will be installed across the channels leading into</p>	<p>Monitor fish capture and relocation efforts especially in terms of compliance with permit</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitor fish capture and relocation efforts, daily, during water diversion and report to the</p>	<p>NMFS, USFWS, CCRWQCB, CDFG and</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>the reservoir to prevent fish from swimming upstream into the Carmel River and San Clemente Creek. A fish rescue will occur in the reservoir during drawdown. Fish will be captured using large and small seines and dip nets. Backpack electrofishing units will be used if needed. Electrofishing would follow guidelines established by NMFS (2000). Rescued fish will be relocated to other suitable habitat downstream of OCRD in the Carmel River. During dewatering, water quality in the river would be protected by implementing measures in the SWPPP and SPCC (Appendices K and R). Other mitigation measures provided by CDFG and NMFS will be adopted as specified.</p>	<p>conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR.</p> <p>Monitor compliance with water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.</p>		<p>agencies as specified in permits.</p> <p>Compliance with water quality protection BMPs, will be inspected daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p>	<p>MPWMD</p>
<p>FI-6: To minimize impacts, fish rescue and relocation will be implemented.</p> <p>To control turbidity caused by construction near roads, stream crossings and bridges,</p>	<p>Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR.</p> <p>Monitor compliance with water quality protection measures and report to CCRWQB, Monterey</p>	<p>Applicant's Environmental Inspector and Project Engineer</p>	<p>Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits.</p> <p>Erosion control and water quality protection measures will be</p>	<p>USEPA, USACE, NMFS, USFWS, CCRWQCB, CDFG and Monterey County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>implement erosion control methods and BMPs in SWPPP (Appendix K) including: Place no fill on canyon walls above river; use retaining walls; adequately size and locate erosion control facilities; use filter fabrics, berms, hay bales and other erosion control methods; monitor and maintain erosion control methods throughout implementation period; construct spill and spoil areas to prevent silt and clay erosion; control surface drainage from cut, fill, borrow, and disposal areas; inspect cut slopes to prevent slope failures and temporary wall rock raveling; use blasting mats to capture and direct rock debris; erect temporary walls adjacent to existing access road to contain blasted rock; permanently revegetate disturbed areas immediately after completing road improvements; if necessary, implement temporary revegetation and erosion control; install over-wintering protection to prevent undermining or washout.</p> <p>To mitigate turbidity impacts during reservoir construction activities: moderate rate of reservoir drawdown by routing reservoir inflow through a pipeline; dewater reservoir to 510 feet then open lower level</p>	<p>County, USACE, CDFG, and DWR.</p>		<p>monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.</p>	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>valve; regulate releases into lower river to minimize turbidity impacts; use mobile filter plant to treat highly turbid water before releasing to river.</p> <p>River temperatures downstream of dam should not increase by more than 1 to 2 degrees Celsius over water temperature upstream of the sheet-pile water diversion. To mitigate temperature impacts: schedule reservoir dewatering during cool part of year and during night and early part of day; as water level lowers and surface temperature rises, switch from surface releases to release from well points; reduce thermal loading in diversion pipes by placing pipes in shaded locations, burying pipe under a sand layer, covering with burlap or shade cloth, or painting pipe white if it cannot be shaded.</p> <p>To mitigate dissolved oxygen impacts: aerate water as it leaves the diversion pipes or use a mechanical aerator prior to releasing water into river; during reservoir drawdown, employ mechanism to aerate water as it descends from dam into the river; aerate water pumped from reservoir or released from well points prior to discharge into river.</p>				

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>FI-10: Minimum flows are addressed in the current MOU between MPWMD, CDFG, NFMS, and CAW and are based on available upstream storage in Los Padres Reservoir, the water year type and water demand. A similar plan will be developed for this project in conjunction with NMFS Fisheries, CDFG, SWRCB, and the MPWMD. The plan will provide flows for steelhead habitat in the reach of the river affected by the new point of diversion. The point of diversion will be operated to maintain fish passage flows in Carmel River in January through May while also providing the necessary water supply to the downstream community. Additional mitigation for the change in the point of diversion may be added by the State Water Resources Control Board (SWRCB) during the permit process.</p>	<p>Monitor compliance with operation of point of diversion and report to the SWRCB, NMFS, CDFG, USFWS, and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitor compliance with fish passage flows daily January through May and report monthly to the agencies during this time period.</p>	<p>SWRCB, NMFS, CDFG, USFWS</p>
<p>FI-13: Construct new channel for the Carmel River, channel configuration will include approximately 300 feet through the bypass and 2,200 feet in the existing San Clemente Creek arm. Restoration activities will include excavation and placement of gravel, cobble, and boulder materials salvaged</p>	<p>Before construction begins, channel design will be approved by DWR's DSOD to determine consistency with dam safety criteria. The approved design will be submitted to CDFG, NMFS, CCRWQB, Monterey County, USACE, and the MPWMD. Monitor compliance with channel</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Before construction begins, channel design will be approved by DWR's DSOD to determine consistency with dam safety criteria, and the approved design will be submitted to CDFG, NMFS, CCRWQB, Monterey County, USACE, and the MPWMD. Monitor activities daily during</p>	<p>CDFG, NMFS, the CCRWQCB, Monterey County, USACE, MPWMD</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>during sediment removal. Construction of the new Carmel River channel will be geomorphically designed based on flow capacity requirements, gradient, and valley width of the Carmel River. Habitat in restored channels will be revegetated with native trees and shrubs according to Appendix U. Other mitigation measures provided by CDFG, NMFS, the CCRWQCB, Monterey County, USACE, and the MPWMD will be implemented as specified.</p>	<p>construction design specifications, tree and vegetation removal, vegetation protection measures, erosion control and water quality protection measures, revegetation specifications, and new channel habitat function and report to CDFG, NMFS, the CCRWQCB, Monterey County, USACE, MPWMD and DWR.</p>		<p>construction for compliance with vegetation protection measures and to determine construction-related tree and vegetation removal impacts. During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting.</p> <p>Revegetation reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p> <p>Throughout construction, for erosion control, water quality protection and temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted</p>	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
			<p>monthly to the agencies.</p> <p>Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction monitoring for erosion control and water quality protection measures will be conducted for ten years, and reports will be submitted to the agencies monthly.</p> <p>Assessment of new channel habitat function and any requirements for additional channel habitat improvements will be coordinated with CDFG, NMFS, the CCRWQCB, Monterey County, USACE, MPWMD and DWR.</p>	
<p>FI-15: To offset poor water quality at the Sleepy Hollow Steelhead Rearing Facility, during construction and operations into the future, an alternative supply, such as from the Russell Wells, will be</p>	<p>Monitor water quality and report to MPWMD, CCRWQCB, and DWRs.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Throughout construction and during future operations, from early summer to winter or late spring, monitor water quality daily during active construction, equipment operation or future project-related operations. Submit monthly reports to</p>	<p>MPWMD, CCRWQCB</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
provided.			agencies.	
4.5 Vegetation and Wildlife				
VE-1: Avoid populations of CNPS List 4 plant species to the extent possible	Report any losses to CNPS List 4 species.	Applicant and Applicant's Environmental Inspector	During construction.	CDFG, Monterey County
VE-2: Confine access improvement activities to north side of existing road; fence blue oak stand on south side of road to prevent construction encroachment. Implement measures in Botanical Resources Management Plan (Appendix U) including: under supervision of a qualified botanist, replace up to half the removed oaks with seedlings or potted oaks at 3:1 ratio; replant trees that don't survive; derive all plant material from Carmel Valley area oak populations. To ensure long-term survival, take remedial action such as irrigation or protection from browsing animals per Monterey County Code Title 16, Chapter 16.6; provide or acquire a conservation easement sufficient to mitigate at least half the oak tree loss per Monterey County Code. Adhere to all permit conditions.	Monitor compliance with vegetation protection measures and report to Monterey County, CDFG, and DWR. Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.	Applicant and Applicant's Environmental Inspector	Monitor activities daily during construction for construction encroachment impacts. During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.	Monterey County, CDFG
VE-3: Design project features to minimize loss of native vegetation; limit damage to roots	Monitor compliance with vegetation protection measures and report to Monterey County,	Applicant's Environmental Inspector	During construction, conduct monitoring annually on all revegetated areas and areas	Monterey County, CDFG, CCRWQCB,

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>Valley area oak populations. To ensure long-term survival, take remedial action such as irrigation, or protection from browsing animals per MCC Title 16, Chapter 16.6. Provide or acquire a conservation easement sufficient to mitigate at least half the oak tree loss per Monterey County Code.</p> <p>Implement measures in the Botanical Resources Management Plan (Appendix U); adhere to permit requirements.</p>			<p>of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p>	
<p>VE-4: Implement erosion and sedimentation control BMPs in SWPPP (Appendix K) for all grading, filling, vegetation clearing or excavating; design road widening to avoid placing fill above canyon walls; with a qualified hydrologist, design all road widening and improvements to avoid or minimize alteration of existing drainage patterns; employ appropriate erosion control technology; conduct construction work during dry season; avoid excavation and operation of construction vehicles within tree driplines; implement dust control measures including watering unpaved access roads; with qualified revegetation specialist, revegetate disturbed areas with</p>	<p>Monitor compliance with vegetation protection measures and erosion and sediment control BMPs and report to Monterey County, CDFG, CCRWQCB, and DWR.</p> <p>Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector, Hydrologist, Revegetation Specialist</p>	<p>During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting.</p> <p>Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p> <p>Throughout construction, for erosion control, water quality protection and temporary and permanent revegetated areas</p>	<p>Monterey County, CDFG, CCRWQCB, USACE</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>seed mix containing as high a percentage of native seeds as possible; implement remedial actions if revegetation is unsuccessful or if significant erosion and sedimentation is observed during monitoring; implement strategies in Botanical Resources Management Plan (Appendix U); adhere to all permit conditions.</p>			<p>inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p>	
<p>WI-2: Conduct preconstruction surveys followed by consultation with agencies. Other measures include establishing buffer zones or installation of exclusion barriers under the supervision of a qualified bat biologist. If possible, schedule structure</p>	<p>Report preconstruction survey results to CDFG, USFWS, and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Report survey results to the agencies immediately upon survey completion.</p>	<p>USFWS, CDFG</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
removal after juvenile bats are weaned and capable of flight as determined by a qualified bat biologist.				
<p>WI-3: To minimize, conduct pre-construction surveys; rescue and relocate CRLF, western pond turtle, and other aquatic special-status species; erect barrier to prevent movement of frogs back into work area; have biological monitor accompany crew during excavation and installation of barrier to prevent harm to species active along barrier route; restore CRLF habitat sites; implement CRLF Population Monitoring and Bullfrog Eradication Program in cooperation with the USFWS and CDFG. Capture and relocate western pond turtles to nearby downstream ponds or pools; erect construction fencing to prevent turtles from returning to construction area. For duration of cofferdam construction, use biological monitor to facilitate safe removal and relocation of special-status species such as CRLF, western pond turtles, and two-striped garter snake. Two-striped garter snakes will be relocated at least one-quarter mile downstream to prevent predation on other special status species. Implement provisions in</p>	<p>Report results of preconstruction surveys to CDFG, USFWS, and DWR.</p> <p>Monitor rescue and relocation, and bullfrog eradication activities and report results to CDFG, USGWS, and DWR.</p>	<p>Applicant's Field Contact Representative, or Authorized Biologist</p>	<p>Report results of preconstruction surveys immediately after completion. Report encounters with special-status species to authorized biologists; report finding dead or injured special-status species to CDFG and USFWS within 3 days. Within 60 days of completing construction activities for the season, submit special-status species report.</p>	<p>CDFG, USFWS</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>Appendix V (Protection Measures for Special-Status Species). Other mitigation measures provided by CDFG and USFWS will be adopted as specified.</p>				
<p>WI-4: Conduct protocol-level surveys for California red-legged frog, and other special-status aquatic species on Carmel River to about one-half mile downstream of the Old Carmel River Dam; if work on dam is interrupted for more than two weeks, repeat initial surveys; notify USFWS if CRLF are observed; USFWS-approved biologist will capture and relocate CRLF to nearby, suitable habitat; if necessary, survey and relocation programs will be modified to comply with USFWS Biological Opinion; consult with USFWS if other special-status species are located; adhere to permit conditions.</p>	<p>Report results of protocol-level surveys to CDFG, USFWS, and DWR. Monitor rescue and relocation, and bullfrog eradication activities and report results to CDFG, USGWS, and DWR.</p>	<p>Applicant's Environmental Inspector, or Authorized Biologist</p>	<p>Report results of preconstruction surveys immediately after completion; comply with monitoring and reporting schedule as specified in the USFWS Biological Opinion and CDFG consultation.</p>	<p>CDFG, USFWS</p>
<p>WI-8: Conduct vegetation removal between Sept. 15 and Feb. 1. If any vegetation removal must be conducted between Feb. 1 and Sept. 15, protocol-level pre-construction surveys for breeding birds will be conducted by a qualified wildlife biologist. The project applicant and qualified wildlife biologist will coordinate specific survey</p>	<p>Report results of preconstruction surveys to CDFG, USFWS, Monterey County, and DWR. Monitor vegetation removal. If removal must occur outside of the September 15 through February 1 period, coordinate with the regulatory agencies, conduct additional surveys, and report results to CDFG, USFWS,</p>	<p>Applicant's Field Contact Representative, or Environmental Inspector</p>	<p>Report results of all surveys immediately after completion. Report encounters with special-status species and protected birds to CDFG and USFWS; report finding dead or injured special-status species and birds within 3 days to CDFG and USFWS. Coordinate nesting surveys and buffer zones with</p>	<p>USFWS, CCRWQCB, CDFG, and Monterey County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>details with CDFG and the USFWS before any vegetation removal or construction occurs. If active nests are found, CDFG, and the USFWS will be contacted. Nests of fully protected species will be protected by a one-half mile no disturbance buffer, CDFG and USFWS will determine buffers for other species. Nests will be monitored by a qualified wildlife biologist until the young have fledged and are no longer dependent on parental care for survival. Other mitigation measures provided by CDFG and USFWS will be adopted as specified. Measures will be incorporated into the project as required by the agencies with regulatory authority over the species.</p>	<p>Monterey County, and DWR. Nest surveys will be coordinated with the CDFG and USFWS; nest survey results will be reported to CDFG and USFWS.</p>		<p>CDFG and USFWS and report as required by these agencies. Within 60 days of completing construction activities for the season, submit special-status species report; comply with monitoring and reporting schedule as specified by USFWS and CDFG.</p>	
<p>WI-9: Minimize tree removal to number necessary to allow construction access; use GPS to map and flag known active woodrat nests along route; conduct surveys to identify other active woodrat nests; plan routes to avoid woodrat nests; have bat expert conduct preconstruction surveys of rock outcrops and other formations to determine presence of possible roosts; use GPS to map roosts; route construction to avoid roosts; implement erosion and sedimentation control BMPs (SWPPP, Appendix K) to avoid and minimize impacts to CRLF,</p>	<p>Monitor compliance with measures in Appendix V and erosion and sediment control measures and report to CDFG, USFWS, CCRWQCB, Monterey County and DWR. Report preconstruction survey results to USFWS, CDFG, and DWR.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Report preconstruction survey results to agencies immediately after survey completion. Report encounters with special-status species to CDFG and USFWS. Report finding dead or injured special-status species within 3 days to CDFG and USFWS. Within 60 days of completing construction activities for the season, submit special-status species report; comply with monitoring and reporting schedule as specified by USFWS and CDFG. Throughout construction, for</p>	<p>USFWS, CDFG, CCRWQCB, and Monterey County Planning and Building Inspection Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>foothill yellow-legged frogs, western pond turtles and two-striped garter snake along Carmel River; in wet conditions, do daily surveys in wet conditions at Bridge 529 and all drainage crossings, move sensitive species to suitable locations, conduct rescue and relocation according to agency protocols. Conduct surveys for California Tiger Salamander (CTS), maintain 50-ft buffer around potential burrows, if working at night, project-related traffic will be escorted during rainy or wet conditions. Obtain Incidental Take Permit if necessary. Other mitigation measures provided by CDFG and USFWS will be adopted as specified. Implement strategies in the Protection Measures for Special-status Species (Appendix V); comply with permit conditions.</p>			<p>erosion control, water quality protection and temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.</p> <p>Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.</p>	
<p>WI-10: To minimize, obtain and comply with permits from USFWS and CDFG. Implement provisions in the Protection Measures for Special Status</p>	<p>Monitor capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, and DWR.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Monitor capture and relocation efforts, daily, and report to the agencies as specified in permits.</p>	<p>NMFS, USFWS, CDFG</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>Species (Appendix V). Under direction of a biologist permitted and approved by CDFG, USFWS and NMFS to capture and relocate CRLF, western pond turtles, two-striped garter snakes and other species, conduct preconstruction surveys for special status and native species consistent with recent USFWS and CDFG guidance. Notify agencies if special status species are observed; capture and relocate special status aquatic species after April 15; install erosion control fencing or similar barrier to minimize movement back into work areas; clear vegetation by hand; restore CRLF habitat; conduct CRLF population monitoring and predator control program in compliance with Fish and Game Code throughout project construction and continuing for 2 years after completion of project. If monitoring shows increase in bullfrog population and decrease in CRLF numbers in mitigation areas, eradication program may continue another 2 years. Transport and relocate other native wildlife to secure habitats; continue these mitigation measures throughout reservoir drawdown, vegetation clearing, and sediment excavation operations. Other mitigation</p>	<p>Monitor bullfrog and CRLF populations and report to USFWS and CDFG.</p>		<p>Monitor and report results of bullfrog and CRLF populations as specified in the bullfrog eradication program.</p>	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>measures provided by CDFG and USFWS will be adopted as specified.</p>				
<p>WI-11: To minimize, obtain and comply with permits from USFWS and CDFG; implement provisions in the Protection Measures for Special Status Species; clear vegetation with handheld tools (except "weedwhackers") prior to sediment excavation and rescue/relocation of CRLF; vegetation clearing will be limited to no lower than 12 inches above grade; cleared vegetation moved to an off-site location; under direction of a biologist permitted and approved by CDFG, USFWS and NMFS to capture and relocate CRLF, western pond turtles, two-striped garter snakes, Coast Range newt and other species, after hand clearing is complete, conduct preconstruction surveys for special status and native species consistent with recent USFWS and CDFG guidance; notify agencies if special status are observed; capture and relocate species after April 15; install erosion control fencing or similar barrier to minimize movement back into work areas; after ten days pass in which no special status aquatic adults, juveniles, hatchlings or larvae</p>	<p>Conduct preconstruction surveys and report to CDFG, USFWS, NMFS, and DWR.</p> <p>Monitor vegetation clearing activities and report to CDFG, USFWS, and DWR.</p> <p>Monitor capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, and DWR.</p> <p>Monitor bullfrog and CRLF populations and report to USFWS and CDFG.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Report preconstruction survey and vegetation clearing results to agencies immediately after completion of activities.</p> <p>Immediately notify agencies if special-status species are detected during vegetation clearing.</p> <p>Monitor capture and relocation efforts, daily, and report to the agencies as specified in permits.</p> <p>Monitor and report results of bullfrog and CRLF populations as specified in the bullfrog eradication program.</p>	<p>NMFS, USFWS, CDFG</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>are detected, machine operations and mechanical vegetation removal can commence; after mechanical vegetation removal is complete, aquatic habitat will be resurveyed for presence of special status species; if no adults, juveniles, hatchlings, or larvae are present, sediment excavation can commence; repeat procedures at beginning of each construction season; restore CRLF habitat; conduct CRLF population monitoring and predator control program in compliance with Fish and Game Code throughout project and continuing for 2 years after completion of project; if construction monitoring shows increase in bullfrog population and decrease in CRLF numbers in mitigation areas, eradication program may continue another 2 years; transport and relocate other native wildlife to secure habitats; continue these mitigation measures throughout reservoir drawdown, vegetation clearing, and sediment excavation operations. Other mitigation measures provided by CDFG and USFWS will be adopted as specified.</p>				
<p>WI-13: To minimize, obtain and comply with permits from USFWS and CDFG; implement</p>	<p>Monitor compliance with measures in Appendix V and erosion and sediment control</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Report preconstruction survey results to agencies immediately</p>	<p>NMFS, USFWS, CDFG</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>provisions in the Protection Measures for Special Status Species (Appendix V). Under direction of a biologist permitted and approved by CDFG, USFWS and NMFS to capture and relocate special status aquatic and terrestrial species including CRLF, Coast Range newt, western pond turtle and Monterey duskyfooted woodrat, conduct preconstruction surveys for special status and native species consistent with most recent USFWS and CDFG guidance; notify agencies if special status species are observed; capture and relocate special status aquatic species after April 15; install erosion control fencing or similar barrier to minimize movement back into work areas; clear vegetation by hand; restore CRLF habitat; conduct CRLF population monitoring and predator control program in compliance with Fish and Game Code throughout project construction and continuing for 2 years after completion of project; if monitoring shows increase in bullfrog population and decrease in CRLF numbers in mitigation areas, eradication program may continue another 2 years; transport and relocate other native wildlife to secure habitats;</p>	<p>measures and report to CDFG, USFWS, and DWR.</p> <p>Conduct preconstruction surveys and report to CDFG, USFWS, NMFS, and DWR.</p> <p>Monitor capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, and DWR.</p> <p>Monitor bullfrog and CRLF populations and report to USFWS and CDFG</p>		<p>after completion of activities.</p> <p>Immediately notify agencies if special-status species are detected.</p> <p>Monitor capture and relocation efforts, daily, and report to the agencies as specified in permits.</p> <p>Monitor and report results of bullfrog and CRLF populations as specified in the bullfrog eradication program.</p>	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>continue these mitigation measures throughout reservoir drawdown, vegetation clearing, and sediment excavation operations. Other mitigation measures provided by CDFG and USFWS will be adopted as specified.</p>				
<p>WI-14: Avoid night work during October-April along the portion of Cachagua Road located closest to potential CTS habitat. If construction-related travel must occur at night during rainy or wet conditions, a qualified biological monitor will conduct surveys and escort vehicles through the potential habitat area. Other mitigation measures provided by CDFG and USFWS will be implemented as specified.</p>	<p>If nighttime construction travel is necessary during wet or rainy conditions, conduct surveys and report results to CDFG, USFWS, and DWR.</p>	<p>Qualified Biologist and Applicant's Environmental Inspector</p>	<p>Report survey results to agencies immediately after completion of surveys. Immediately notify agencies if CTS are detected.</p>	<p>USFWS, CDFG</p>
<p>WI-15: Lighting will be directed downward to prevent spillover into habitats. Conduct night work between Sept. 15 and Feb. 1 to avoid nesting season. If night work must be conducted between Feb. 1 and Sept. 15, a qualified wildlife biologist will conduct protocol-level preconstruction surveys. CDFG and USFWS will be contacted if active nests are found, protect nests of fully protected species with one-half mile buffers; coordinate buffers for nests of other species with CDFG and USFWS, monitor nests until young have fledged and are not</p>	<p>Report results of preconstruction surveys to CDFG, USFWS, Monterey County, and DWR. If night work must occur outside of the September 15 through February 1 period, coordinate with the regulatory agencies, conduct additional surveys, and report results to CDFG, USFWS, Monterey County, and DWR. Nest surveys will be coordinated with the CDFG and USFWS; nest survey results will be reported to CDFG and USFWS.</p>	<p>Qualified Biologist and Applicant's Environmental Inspector</p>	<p>Report results of all surveys immediately after completion. Report encounters with special-status species and protected birds to CDFG and USFWS; report finding dead or injured special-status species and birds within 3 days to CDFG and USFWS. Coordinate nesting surveys and buffer zones with CDFG and USFWS and report as required by these agencies. Within 60 days of completing construction activities for the season, submit special-status species report; comply with</p>	<p>USFWS, CDFG, and Monterey County</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
dependent on parental care, implement additional measures designated by agencies.			monitoring and reporting schedule as specified by USFWS and CDFG.	
4.6 Wetlands				
<p>WET-1: Implement revegetation immediately after completion of Phase 1 construction; create or restore lost riparian and fringe palustrine emergent wetlands, similar in function (streamside habitat); 2.95 acres of wetlands in the San Clemente Creek and Carmel River arms will be restored to achieve at least a 1:1 ratio. Grading will occur as necessary. Under supervision of qualified botanist, place cuttings or seedlings in appropriate habitat; obtain seedlings from Carmel Valley area populations; replant seedlings as necessary to ensure long-term survival; for loss of Other Waters of the U.S., mitigate by restoring 3,000 feet of Carmel River and San Clemente Creek channels, and improving stream channel habitat on Carmel River upstream of project area or along other appropriate streams in watershed; obtaining conservation easements or mitigation banking credits at a 3:1 ratio on similar, unaffected and fully functional wetlands in the watershed. Specifications of the USACE 404 permit will be complied with, and provisions of</p>	<p>Monitor compliance with measures in Appendix U and report to CDFG, USACE, Monterey County and DWR.</p> <p>Monitor revegetation plantings and report to USACE, Monterey County, CDFG, and DWR.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems.</p> <p>Monitor and record success of wetland restoration, annually. At end of three years, submit status report to USACE. Report shall include percent cover achieved and will identify all problem areas. If the performance criteria are not met, status reports will be submitted annually until criteria are met.</p> <p>Monitor replacement plantings during years 1, 2, 3 and 5 following planting; for areas where trees, saplings, poles, or wands are planted, also monitor in year 10 after planting;</p>	<p>USACE, CDFG, Monterey County</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>the Botanical Resources Management Plan (Appendix U) will be implemented. Implement provisions in the Botanical Resources Management Plan (Appendix U).</p>				
<p>WET-2: Construct cofferdams of clean, river-run gravel; unless flows are less than 50 cfs, install cofferdams no earlier than May and remove in Oct; fill plunge pool staging area with spawning size gravel, cover with visqueen liner and a layer of crushed rock or sand; remove surface layer and liner when construction is complete; to minimize loss of wetlands and riparian vegetation, upgrade plunge pool access road to a one lane, two-way road with turnouts. Implement revegetation immediately after completion of Phase 1 construction; create or restore riparian and fringe palustrine wetlands similar in function at 3:1 ratio; grade as necessary; under supervision of a qualified botanist, plant cuttings or seedlings in appropriate habitat; obtain seedlings from Carmel Valley area populations; replant seedlings as necessary to ensure long-term survival. For Other Waters of the U.S., may also improve stream channel habitat on Carmel River</p>	<p>Monitor compliance with measures in Appendix U and report to CDFG, USACE, Monterey County, and DWR.</p> <p>Monitor revegetation plantings and report to USACE, Monterey County, CDFG, and DWR.</p>	<p>Applicant's Environmental Inspector, Hydrologist, or Revegetation Specialist</p>	<p>During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems.</p> <p>Monitor and record success of wetland restoration, annually. At end of three years, submit status report to USACE. Report shall include percent cover achieved and will identify all problem areas. If the performance criteria are not met, status reports will be submitted annually until criteria are met.</p> <p>Monitor replacement plantings during years 1, 2, 3, and 5 following planting; for areas where trees, saplings, poles, or wands are planted, also monitor in year 10 after planting; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting.</p>	<p>Monterey County, CDFG, CCRWQCB, USFWS, USACE</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>upstream of project area or along other appropriate streams in watershed; obtain conservation easement or mitigation banking credits at 3:1 ratio on similar, unaffected and fully functional wetlands in watershed; comply with specifications of the USACE 404 permit; implement provisions in the Botanical Resources Management Plan (Appendix U).</p>				
<p>WET-3: Implement erosion and sedimentation control BMPs in SWPPP (Appendix K) for all grading, filling, vegetation clearing or excavating; design road widening to avoid placing fill above canyon walls; with a qualified hydrologist, design all road widening and improvements to avoid or minimize alteration of existing drainage patterns; employ appropriate erosion control technology; conduct construction work during dry season; avoid excavation and operation of construction vehicles within tree driplines; implement dust control measures including watering unpaved access roads; with qualified revegetation specialist, revegetate disturbed areas with seed mix containing as high a percentage of native seeds as possible; implement remedial</p>	<p>Monitor compliance with measures in Appendix U and report to CDFG, USACE, Monterey County, and DWR.</p> <p>Monitor compliance with erosion and sedimentation control BMPs in Appendix K and report to Monterey County, CDFG, USACE, CCRWQCB, and DWR.</p>	<p>Applicant's Environmental Inspector, Hydrologist, or Revegetation Specialist</p>	<p>Report compliance with measures in Appendix U as specified in Botanical Resources Management Plan.</p> <p>Throughout construction, for erosion control, water quality protection and in temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting.</p> <p>Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Reports of daily inspections will be submitted monthly to the agencies.</p> <p>Verbally report noncompliance within 24 hours from time</p>	<p>Monterey County, CDFG, CCRWQCB, USFWS, USACE</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
actions if revegetation is unsuccessful or if significant erosion and sedimentation is observed during monitoring; implement strategies in Botanical Resources Management Plan (Appendix U).			applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	
4.7 Air Quality				
<p>AQ-1: To minimize, all active construction areas and access roads will be watered at least twice daily. All grading will be prohibited during winds greater than 15 mph. Chemical soil stabilizers will be applied to disturbed construction areas that have been unused for at least four consecutive days. Non-toxic binders will be applied to exposed areas after cut and fill operations and to hydroseeded areas. Haul trucks will maintain at least 2 feet of freeboard. All trucks hauling dirt, sand, or loose materials will be covered. Disturbed areas will be seeded or planted with a vegetative ground cover as soon as possible. Inactive storage piles will be covered with tarps. A sign will be posted giving the telephone number and person to contact regarding dust complaints. This person would respond to complaints and take</p>	<p>Monitor compliance with measures to reduce emissions from construction equipment and road dust and report to the MBUAPCD and DWR.</p>	<p>Applicant's Environmental Inspector, MBUAPCD monitoring stations</p>	<p>Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.</p>	<p>MBUAPCD</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>corrective action within 48 hours. The phone number of the Monterey Bay Unified Air Pollution Control District (MBUAPCD) would be visible to ensure compliance with Rule 402 (Nuisance).</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				
<p>AQ-1a: Reduce emissions of NOX from construction equipment by using NOX controls for diesel vehicles and equipment.</p>	<p>Monitor compliance with measures to reduce emissions from construction equipment and report to the MBUAPCD and DWR.</p>	<p>Applicant's Environmental Inspector, MBUAPCD monitoring stations</p>	<p>Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.</p>	<p>MBUAPCD</p>
<p>AQ-2: To minimize, crushed rock will be used as a final base on unpaved roads Unpaved or unrocked roads, parking areas, and staging areas will be watered. The amount and frequency of water application would be adjusted for weather conditions to maintain a minimum average soil moisture ratio of 5, for 95 percent or greater dust suppression. Water quality BMPs will be implemented to avoid introducing sediment into the river and creeks. Non-toxic chemical stabilizers or dust suppressants will be applied to unpaved haul roads. As traffic and weather allow, as necessary, a street sweeper will</p>	<p>Monitor compliance with measures to reduce dust and other emissions during access road improvements and report to the MBUAPCD and DWR.</p>	<p>Applicant's Environmental Inspector, MBUAPCD monitoring stations</p>	<p>Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.</p>	<p>MBUAPCD</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>be regularly used to prevent sediment accumulation on paved roads. A posted 15-mph speed limit will be enforced on all vehicles on unpaved haul roads. The Applicant will implement practical and cost-effective PM₁₀ controls for access roads, including paving and coarse graveling, in addition to periodic watering, along with practical and cost-effective NO_x controls for diesel vehicles and equipment, such as Viscon18. To the maximum extent possible, state-certified construction equipment in the PERP, pre-approved for use in any district by the Air Resources Board, will be used. The Applicant will comply with all MBUAPCD permit requirements.</p>				
<p>AQ-3: To minimize, crushed rock will be used as a final base on unpaved service roads to minimize dust generation in the vicinity of the Sleepy Hollow subdivision, and to make the roads more drivable. A posted 15-mph speed limit will be enforced on all vehicles on unpaved haul roads. Unpaved or unrocked roads, parking areas, staging areas and the batch plant will be watered. The amount and frequency of water application will be adjusted for weather conditions to maintain a</p>	<p>Monitor compliance with measures to reduce dust and other emissions during project-related travel, and report to the MBUAPCD and DWR.</p>	<p>Applicant's Environmental Inspector, MBUAPCD monitoring stations</p>	<p>Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.</p>	<p>MBUAPCD</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>minimum average soil moisture ratio of 5, for 95 percent or greater dust suppression. Water quality BMPs will be implemented to avoid introducing sediment into the river and creeks. Non-toxic chemical stabilizers or dust suppressants will be applied to unpaved haul roads. As traffic and weather allow, a municipal street sweeper will be used to prevent accumulation on Center Court Place and affected portions of San Clemente Drive. A 15-mph speed limit will be enforced on all unpaved haul roads. The Applicant will implement practical and cost-effective PM₁₀ controls for access roads, including paving and coarse graveling, in addition to periodic watering, along with practical and cost-effective NO_x controls for diesel vehicles and equipment, such as Viscon 18. To the maximum extent possible, state-certified construction equipment in the PERP, pre-approved for use in any district by the Air Resources Board, will be used. The Applicant will comply with all MBUAPCD permit requirements. Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>AQ-3a: Implement BMPs including watering roads and construction areas, using chemical stabilizers, and employing other appropriate measures.</p>	<p>Monitor compliance with measures to reduce emissions from construction equipment and road dust and report to the MBUAPCD and DWR.</p>	<p>Applicant's Environmental Inspector, MBUAPCD monitoring stations</p>	<p>Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.</p>	<p>MBUAPCD</p>
<p>4.7a Greenhouse Gas Emissions</p>				
<p>Implement BMPs including: Maximize on-road fuel efficiency; develop a VMT reduction plan; use carpools, vanpools, or shuttle services to reduce worker-related VMT; reduce unnecessary idling through use of auxiliary power units, electric equipment and enforcement of idling and speed limits; properly maintain engines and equipment efficiently; implement a construction and demolition plan that will result in at least 50 percent diversion through reuse or recycling of nonhazardous construction waste; materials that are not recyclable or reusable for another project will be hauled to the nearest waste disposal facility.</p>	<p>Monitor compliance with measures to reduce emissions from construction equipment and activities and report to the MBUAPCD and DWR.</p>	<p>Inspector, MBUAPCD monitoring stations</p>	<p>Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.</p>	<p>MBUAPCD</p>
<p>4.8 Noise</p>				
<p>NO-1: Use quiet-design equipment, mufflers, and enclosures; eliminate unnecessary idling; conduct appropriate equipment maintenance and lubrication;</p>	<p>Monitor compliance with daytime working hours restriction and report to Monterey County and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>implement timing restrictions for equipment use.</p> <p>Even with implementation of this measure, the impact will remain significant and unavoidable.</p>				
<p>NO-2: To minimize, limit access road upgrade construction to the hours between 7:00 am and 6:00 pm, use quiet design construction equipment; install enclosure panels when required on stationary equipment; eliminate unnecessary idling; implement good maintenance and lubrication procedures; implement timing restrictions such as limiting operations to daytime working hours; limit construction worker passenger vehicle access during construction season to Monday-Saturday, 7:00 a.m.-7:00 p.m. and truck deliveries of construction materials to Monday-Saturday between 8:00 a.m. and 6:00 p.m; enforce California Vehicle Code prohibitions against faulty or modified loud exhaust systems; enforce reduced speed limits to 15 mph on unpaved roads.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with measures to reduce noise generated during access road improvements and report to Monterey County and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County</p>
<p>NO-3: To minimize, Night work</p>	<p>Monitor compliance with</p>	<p>Applicant's Environmental</p>	<p>Monitoring will occur daily, during</p>	<p>Monterey County</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>would only be for sediment excavation at the SCD and reservoir sites, no delivery trucks or heavy construction equipment would be moved at night, access road construction will be limited to hours between 7:00 am and 6:00 pm, use quiet design construction equipment; install enclosure panels when required on stationary equipment; eliminate unnecessary idling; implement good maintenance and lubrication procedures; implement timing restrictions, such as limiting operations to daytime working hours; limit construction worker passenger vehicle access during construction season to Monday-Saturday, 7:00 a.m.-7:00 p.m. and truck deliveries of construction materials to Monday-Saturday between 8:00 a.m. and 6:00 p.m; enforce California Vehicle Code prohibitions against faulty or modified loud exhaust systems; enforce reduced speed limits to 15 mph on unpaved roads.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>measures to reduce noise from construction-related travel including travel associated with mobilization, materials, and workers, and report to Monterey County and DWR.</p>	<p>Inspector</p>	<p>construction. Quarterly reports will be submitted to the County throughout construction.</p>	
<p>4.9 Traffic and Circulation</p>				
<p>TC-1: To minimize, implement</p>	<p>Monitor compliance with</p>	<p>Traffic/Transportation</p>	<p>Monitoring will occur daily, during</p>	<p>Monterey County</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>trip reduction plan for construction workers including use of an off-site park and ride area; prepare Traffic Coordination and Communication Plan to define specific schedules for truck deliveries and worker shifts to avoid peak commute and school bus traffic; use resident Traffic/Transportation Coordinator; prepare and implement Traffic Safety Plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, determine need for flag persons and traffic and speed limit signs. Equipment trips will avoid peak traffic hours between 6:00 am to 8:30 am and from 3:30 pm to 6:00 pm, will be coordinated with local fire districts, and will be coordinated with school bus schedules. Develop vehicle and driver inspection program, prepare Construction Management Plan per Monterey County Public Works Department specifications that would reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. During periods when double-trailer trucks are used, flagging personnel will</p>	<p>measures to reduce impacts related to having additional traffic on the area road network and report to the Monterey County Public Works Department and DWR.</p>	<p>Coordinator</p>	<p>construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Public Works Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>direct traffic at the Carmel Valley Road/Cachagua</p> <p>Road intersection; the Traffic Control Plan will include Carmel Valley Road between Carmel Village and Cachagua Road and the Cachagua Road and the Jeep Trail; to assist with traffic control and ingress and egress, transport trucks will be escorted when traveling between Carmel Valley Road and the Jeep Trail; at some locations on Cachagua Road opposing traffic will be stopped to facilitate haul operations; traffic impact fees will be paid to Monterey County.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				
<p>TC-3a: Implement trip reduction plan for construction workers including use of an off-site park and ride area; prepare Traffic Coordination and Communication Plan; prohibit night and weekend truck deliveries; restrict delivery of major items to weekdays between 0800 and 1500; avoid peak commute and school bus traffic; use resident Traffic/Transportation Coordinator; prepare and implement Traffic Safety Plan to address vehicle size and speed,</p>	<p>Monitor compliance with measures to reduce the potential for increased accident rates on Carmel Valley Road and report to the Monterey County Public Works Department and DWR.</p>	<p>Traffic/Transportation Coordinator</p>	<p>Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction; reports to the County, quarterly.</p>	<p>Monterey County Public Works Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>coordinate travel routes, coordinate with emergency response entities, and to determine need for flag persons and traffic and speed limit signs; post flagging personnel when double-trailer trucks are used. Develop vehicle and driver inspection program, prepare Construction Management Plan per Monterey County Public Works Department specifications to reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. Widen Cachagua Road. Pay traffic impact fee to Monterey County; coordinate with Monterey County Public Works Department to fund enforcement to monitor speed and truck inspections.</p>				
<p>TC-3b: To minimize, implement trip reduction plan for construction workers including use of off-site park and ride area; prepare Traffic Coordination and Communication Plan to schedule truck deliveries and worker shifts to avoid peak commute and school bus traffic between 6:00 am to 8:30 am and from 3:30 pm to 6:00 pm; use resident Traffic/Transportation Coordinator;</p>	<p>Monitor compliance with measures to reduce the potential for increased accident rates on San Clemente Drive and report to the Monterey County Public Works Department and DWR.</p>	<p>Traffic/Transportation Coordinator</p>	<p>Daily, during construction. Submit reports to the County, quarterly.</p>	<p>Monterey County Public Works Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>prepare and implement Traffic Safety Plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, determine need for flag persons and traffic and speed limit signs; develop vehicle and driver inspection program; prepare Construction Management Plan per Monterey County Public Works Department specifications to reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. Pay traffic impact fee to Monterey County.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				
<p>TC-4: Increase sight distance looking east from Cachagua Road by constructing improvements at Carmel Valley Road/Cachagua Road intersection; lengthen sight distance looking east by relocating stop bar on Cachagua Road approach to Carmel Valley Road; perform physical improvements at intersection such as regrading embankment on south side of Carmel Valley Road east of Cachagua Road;</p>	<p>Monitor compliance with measures to reduce the inadequate visual sight distance at intersections potential and report to the Monterey County Public Works Department and DWR.</p>	<p>Traffic/Transportation Coordinator</p>	<p>Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County Public Works Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>construct improvements at Cachagua Road/ Jeep Trail intersection to increase sight distance looking north from Jeep Trail approach; improve sight distance by lowering embankment elevation on east side of Cachagua Road north of the Jeep Trail or by relocating the intersection of Jeep Trail to increase the sight distance looking north.</p>				
<p>TC-6: To minimize, implement a trip reduction plan for construction workers including use of off-site park and ride area; prepare Traffic Coordination and Communication plan to schedule truck deliveries and worker shifts to avoid peak commute and school bus traffic between 6:00 am to 8:30 am and from 3:30 pm to 6:00 pm; use a resident Traffic/Transportation Coordinator; prepare and implement a traffic safety plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, determine need for flag persons and traffic and speed limit signs. Develop vehicle and driver inspection program, prepare a Construction Management Plan per Monterey County Public Works Department specifications to</p>	<p>Monitor compliance with measures to reduce the effect of increased traffic on residential neighborhoods and report to the Monterey County Public Works Department and DWR.</p>	<p>Traffic/Transportation Coordinator</p>	<p>Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County Public Works Department</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. Pay a traffic impact fee to Monterey County.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				
<p>TC-7: Prior to construction, coordinate with local agencies to determine which roads are best to use; restore affected roads to pre-project condition immediately after construction is complete.</p>	<p>Coordinate with Monterey County Public Works Department and formally report to them concerning the best roads to use.</p> <p>After construction, coordinate with the Monterey County Public Works Department to immediately restore roads to pre-project conditions.</p>	<p>Traffic/Transportation Coordinator</p>	<p>Coordinate with, and report to the Monterey County Public Works Department before and post-construction.</p>	<p>Monterey County Public Works Department</p>
<p>TC-8: Coordinate with Monterey County, Cachagua Fire District and Monterey Regional Fire District throughout Project construction; emergency vehicles will have priority to pass; Tassajara, Cachagua, and Jeep Trail improvements will have turn-outs for use by construction equipment so emergency vehicles can pass; avoid work during peak traffic hours between 6:00 am to 8:30 am and from 3:30 pm to 6:00 pm; hauling may be restricted to between 9 am and 3 pm; coordinate with school bus schedules; restrict traffic to non-holiday weekdays; submit</p>	<p>Monitor compliance with measures to reduce the effect of construction traffic on delays in emergency response and report to Monterey County, Cachagua Fire District, Monterey Regional Fire District, and DWR.</p>	<p>Traffic/Transportation Coordinator</p>	<p>Monitoring to ensure compliance with mitigation will occur daily during construction. Quarterly reports will be submitted to the County throughout construction.</p> <p>Any identified potential delays to emergency response time will be immediately reported to Monterey County, Cachagua Fire District, and the Monterey Regional Fire District.</p>	<p>Monterey County, Cachagua Fire District, Monterey Regional Fire District</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>schedules to fire districts; give fire districts 24-hr contact names, phone numbers, and gate keys; radio contact with fire districts will be maintained throughout the project.</p>				
<p>4.10 Cultural Resources</p>				
<p>CR-1: Complete National Historic Preservation Act Section 106 process; monitor construction activities at known archaeological sites; if complete avoidance of sites isn't possible during construction and maintenance, conduct complete archaeological evaluation and historical documentation of sites; if historic properties are discovered, avoid, minimize or mitigate impacts; if buried cultural resources are discovered, halt construction operations and contact federal lead agency; implement an archaeological monitoring program consisting of: preconstruction assessment and construction training, construction monitoring, site recording and evaluation, mitigation planning, curation, tribal discussion, report of findings, and review and approval of any erosion control or revegetation procedures in the vicinity of a known significant site prior to implementing</p>	<p>Monitor compliance with measures to reduce the effect of ground disturbance on archaeological sites and report to the SHPO and DWR.</p>	<p>Applicant</p>	<p>Monitor throughout construction, submit reports to the SHPO according to the Section 106 MOA.</p>	<p>California State Parks Office of Historic Preservation/State Historic Preservation Officer</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
procedures.				
CR-2: Use rigid support of structures to minimize ground movement.	Monitor compliance with measures to reduce damage to historic structures due to construction-related vibrations and report to the SHPO and DWR.	Applicant	Monitor throughout construction, submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer
CR-3: Implement dust reduction measures including: spraying water on ground surface prior to ground disturbance; use crushed rock as final base for unpaved service roads; use watering trucks and adequate water on unpaved areas; enforce 15 mph speed limit on unpaved haul roads; implement other PM10 reduction BMPs; adopt Air Quality dust reduction BMPs; adhere to permit conditions.	Monitor compliance with measures to reduce introduction of dirt, or to cause unintended damage to historic structures during construction-related and demolition activities and report to the SHPO and DWR.	Applicant	Monitor before, during and post-construction. Submit reports to the SHPO according to the Section 106 MOA. Air quality/dust control monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.	California State Parks Office of Historic Preservation/State Historic Preservation Officer, MBUAPCD
CR-4: To minimize, complete Section 106 process including recordation of OCRD and associated fish ladder and SCD and associated fish ladder in the form of NPS regulated HABS/HAER level documentation prior to any construction; additional measures could include interpretive displays, development of an educational program on the facilities and a professional publication on the	Monitor compliance with measures to reduce impacts associated with demolition of the OCRD and fish ladder (historic properties), and demolition activities and report to the SHPO and DWR.	Applicant	Monitor during and post-construction. Submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>historic resources. Incorporate other measures specified by the Section 106 MOA.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				
<p>CR-5: To minimize, prepare NRHP nomination form for Historic District, complete Historic Preservation Management Plan, complete 106 process and MOA.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with measures to reduce impacts associated with altering the character of the San Clemente Dam Historic Resource District and report to the SHPO and DWR.</p>	<p>Applicant</p>	<p>Monitor during and post-construction. Submit reports to the SHPO according to the Section 106 MOA.</p>	<p>California State Parks Office of Historic Preservation/State Historic Preservation Officer</p>
<p>CR-6: To minimize, prior to construction, complete photographic documentation; use design, materials, and construction methods that are compatible with the existing historic resources.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with measures to reduce impacts associated with loss of visual integrity of the San Clemente Dam Historic Resource District and report to the SHPO and DWR.</p>	<p>Applicant</p>	<p>Monitor before and during construction. Submit reports to the SHPO according to the Section 106 MOA.</p>	<p>California State Parks Office of Historic Preservation/State Historic Preservation Officer</p>
<p>4.11 Visual Resources (Aesthetics)</p>				
<p>VQ-2: No mitigation available.</p>				
<p>VQ-5a: To minimize, after construction disturbed areas near the Jeep Trail will be revegetated as specified in</p>	<p>Monitor compliance with vegetation protection measures and report to Monterey County,</p>	<p>Applicant's Environmental Inspector</p>	<p>During construction, conduct monitoring on all revegetated areas and areas identified for potential erosion and</p>	<p>Monterey County, CDFG</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>Appendix U.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>CDFG, and DWR.</p> <p>Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.</p>		<p>sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting.</p> <p>Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.</p>	
<p>VQ-6: To minimize, lighting will be directed down towards work areas and shielded to reduce sky glow and spillover.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with measures to reduce the effects of construction lighting and report to Monterey County and DWR.</p>	<p>Applicant's Environmental Inspector</p>	<p>Monitoring to ensure compliance with mitigation will occur daily when nighttime construction is necessary. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County</p>
<p>4.12 Recreation</p>				
<p>REC-2: To minimize, operation of heavy earth-moving equipment and other construction equipment on the Jeep Trail would occur during normal working hours, but construction-related small trucks and passenger vehicles would travel on the Jeep Trail during day and nighttime hours when night shifts are needed. Air quality, noise and traffic</p>	<p>Monitor compliance with measures to reduce impacts to air, noise, and traffic associated with heavy equipment use of the Jeep Trail and report to Monterey County, the MBUAPCD, and DWR.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Air Quality monitoring will occur daily, during construction, and will be reported monthly to the MBUAPCD throughout construction.</p> <p>Noise and traffic monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County and MBUAPCD</p>

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
<p>mitigations described in Sections 4.7.3, 4.8.3 and 4.9.3 in the Final EIR/EIS will also be implemented to minimize disruption of the use of the Jeep Trail.</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>				
<p>REC-5: To minimize, mobilization of trailer-trucks and heavy equipment will be coordinated to avoid peak traffic hours between 6:00 am to 8:30 am and from 3:30 pm to 6:00 pm. Project Applicant will prepare a Trip Reduction Plan, Traffic Coordination and Communication Plan, and a Traffic Safety Plan (see mitigation for Issue TC-1).</p> <p>Even with implementation of these measures, the impact will remain significant and unavoidable.</p>	<p>Monitor compliance with measures to reduce impacts to motorists traveling to Los Padres National Forest and report to Monterey County, and DWR.</p>	<p>Applicant and Applicant's Environmental Inspector</p>	<p>Traffic monitoring will occur daily during construction. Quarterly reports will be submitted to the County throughout construction.</p>	<p>Monterey County</p>

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