

# EXECUTIVE SUMMARY

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This chapter contains the following sections:

- S.1 Introduction
- S.2 Project Background and Objectives
- S.3 Project Description and Alternatives
- S.4 Summary of Impacts
- S.5 Analysis of Alternatives
- S.6 Issues to be Resolved
- S.7 Organization of This EIR

## ES.1 Introduction

This Environmental Impact Report (EIR) has been prepared by the California Public Utilities Commission (CPUC) pursuant to the California Environmental Quality Act (CEQA) to analyze the potential environmental impacts of a proposed new water supply project for the Monterey Peninsula. The proposed project is called the Coastal Water Project (CWP) and is being proposed by the California American Water Company (CalAm). The water supply is needed to replace existing supplies that are constrained by recent legal decisions affecting the Carmel River and Seaside Groundwater Basin water resources, as described in more detail in Chapter 2. The CWP would produce desalinated water, convey it to the existing CalAm distribution system, and increase the system's use of storage capacity in the Seaside Groundwater Basin. The CWP would consist of several distinct components: a seawater intake system; a desalination plant; a brine discharge system; product water conveyance pipelines and storage facilities; and an aquifer storage and recovery (ASR) system. This Draft Environmental Impact Report (EIR) assesses the potential impacts of the Coastal Water Project.

This document has been prepared in accordance with the California Environmental Quality Act statutes and guidelines. CPUC is the lead agency for this CEQA process. Inquiries about the project should be directed to:

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## ES.2 Project Background and Objectives

The California American Water Company has served the Monterey Peninsula since it acquired properties from California Water and Telephone Company in 1966. CalAm's Monterey District service area is located in the semi-arid central California coastal area that is entirely dependent on local rainfall for its water supply; imported water is not an available option. By reason of its geography and rainfall patterns, the area is prone to severe droughts. Wells located along the Carmel River that draw water from the Carmel River Aquifer are the primary source of water for CalAm. An additional source of water for CalAm is a network of eight wells located in the Seaside Basin, which CalAm shares with a number of users and purveyors.

The CalAm Monterey Service Area, also known as the Monterey District, includes six incorporated cities, the Monterey Airport District, the unincorporated areas of Carmel Highlands, Carmel Valley, and Pebble Beach, and other unincorporated county areas. Moss Landing, an unincorporated census-designate place, is located approximately 19 miles north of the CalAm service area. The City of Marina, unincorporated Castroville, and other areas of unincorporated Monterey County lie between Moss Landing and the CalAm service area.

The proposed water supply is needed to replace existing supplies that are constrained by recent legal decisions affecting the Carmel River and Seaside Groundwater Basin water resources: State Water Resources Control Board (SWRCB) Order No. WR 95-10 (Order 95-10) and the Monterey County Superior Court adjudication of water rights in the Seaside Groundwater Basin. Both rulings reduce CalAm's use of its two primary sources of supply for the Monterey District and provide the most immediate impetus for the CWP.

As proposed by CalAm, the CWP would produce desalinated water, convey it to the existing CalAm distribution system, and increase the system's use of storage capacity in the Seaside Groundwater Basin. The CWP would consist of several distinct components: a seawater intake system; a desalination plant; a brine discharge system; product water conveyance pipelines and storage facilities; and an aquifer storage and recovery (ASR) system.

The CWP is the result of a multi-year planning effort that has entailed thorough consideration of many alternatives in the context of several different proposed projects and various related documents. Since 1989, several options have been proposed that proponents have hoped would meet the water supply needs of the Monterey Peninsula and address the impacts on the Carmel River underlying SWRCB Order 95-10. The objectives that were considered during development of CWP projects are as follows:

- Satisfy CalAm's obligations to meet the requirements of SWRCB Order 95-10;
- Diversify and create a reliable drought-proof water supply;
- Protect the Seaside Basin for long-term reliability;
- Protect listed species in the riparian and aquatic habitat below San Clemente Dam;
- Protect the local economy from the effects of an uncertain water supply;
- Minimize water rate increases by creating a diversified water supply portfolio;

- Minimize energy requirements and greenhouse gas (GHG) emissions per unit of water delivered to the extent possible;
- Explore opportunities for regional partnerships, consistent with the Administrative Law Judge Decision (Decision 03-09-022, dated September 4, 2003);
- Avoid duplicative facilities and infrastructure.

## ES.3 Project Description and Alternatives

This EIR analyzes at an equal level of detail three water supply projects that can each satisfy the objectives of the Coastal Water Project. The Proponent's Environmental Assessment (CalAm and RBF Consulting, 2005) described the CWP assuming the proposed desalination plant would be situated at Moss Landing (this is referred to as the Applicant's Proposed Project, or the Moss Landing Project) to take advantage of the existing cooling water intake system at the Moss Landing Power Plant (MLPP) for source water, and the existing MLPP ocean outfall for the disposal of brine. Since that time, two alternative projects have been developed that are also capable of satisfying the objectives of the CWP. The project facilities for the Moss Landing Project, the North Marina Project, and the Regional Project are summarized in **Table ES-1**.

**TABLE ES-1  
PROJECT FACILITIES**

	<b>Moss Landing Project</b>	<b>North Marina Project</b>	<b>Phase 1 Regional Project</b>	<b>Full Regional Project</b>
Desalination Plant	10 MGD at Moss Landing	11 MGD at North Marina	10 MGD at North Marina	13 MGD (total) at North Marina
Source Water	Existing cooling water system at the MLPP	6 new subsurface intakes (slant wells)	5 new subsurface intakes (vertical wells)	10 (total) new subsurface intakes (vertical wells)
Brine Disposal	Existing MLPP Outfall	Existing Outfall at MRWPCA		
Product Water Conveyance	Transmission Main North			
	Transmission Main South			
Seaside Groundwater ASR	2 existing and 2 new injection/extraction wells			
			3 additional injection wells	
				2 additional injection wells
Surface Water Treatment			Existing Salinas River Diversion Facility and new 14 MGD Plant at North Marina	
				Expansion of Salinas River Diversion Facility
Salinas Basin Groundwater for North Monterey County				Expansion of the Castroville Seawater Intrusion Project, Perched water storage at the Armstrong Ranch, additional distribution pipelines

The first alternative, known as the North Marina Project, includes most of the infrastructure improvements proposed for the CWP. The main differences are that the North Marina Project's desalination facility would be constructed at a different site (in North Marina) and the desalination facility's production capacity would be slightly greater than that of the Moss Landing facility. The North Marina Project would also utilize subsurface seawater intakes for the desalination plant source water (slant wells at the end of Reservation Road), and would require fewer miles of product water conveyance pipeline than the Moss Landing Project. The North Marina Project was initially identified in the PEA and subsequently refined by CalAm and the CPUC. The North Marina Project would meet all of the project objectives of the CWP and is analyzed in this EIR at a level of detail equal to that devoted to the CWP. Both the Moss Landing and North Marina Projects are described in Chapter 3, and both projects are analyzed in Chapter 4 of this EIR. CalAm would be the owner and operator of either of these two projects. The CPUC, as the Lead Agency under CEQA, will use this document to approve one of them to implement the CWP if it decides to approve either of these two projects.

The second alternative project analyzed in this EIR is the Monterey Regional Water Supply Project (Regional Project), which is proposed by Water for Monterey County (formerly known as the Regional Plenary Oversight Group, or REPOG) as a community-developed long-term water supply alternative. The Regional Project, which is described separately in Chapter 5 and analyzed in Chapter 6, would integrate the development and allocation of several water supply sources, including desalination, to address existing and projected future demands within the CalAm service area, as well as existing and future demands in other areas of northern Monterey County. The Regional Project as proposed would be implemented in phases and would incorporate most of the components of the North Marina Project. Specifically, the Regional Project would also utilize the existing Salinas River Diversion Facility (SRDF), and would include a new surface water treatment plant. However, instead of employing slant wells for desalination source water as would the North Marina Project, the Regional Project would employ vertical wells to draw water from beneath the inland side of the beach dunes, and would add capacity to store additional water in the Seaside Groundwater Basin. As proposed in the Regional Project alternative, the Marina Coast Water District (MCWD) would be the owner of the regional desalination facility and the surface water treatment plant. To be implemented, it is assumed the MCWD would use this EIR in considering approval of some of the Regional Project facilities.

### **ES.3.1 Project and Program Evaluations**

The analytical and organizational approach to the analysis of environmental impacts is intended to enable the public and decision-makers to meaningfully compare the impacts of the Moss Landing Project and the North Marina Project, both of which have been analyzed in Chapter 4, with those of the Regional Project, analyzed in Chapter 6.

As described in Chapter 4, two alternative projects, the Moss Landing Project (referred to as the Applicant's Proposed Project) and the North Marina Project (the first alternative project), have been developed that are capable of satisfying the objectives of the CWP. Many of the infrastructure improvements proposed for the Moss Landing Project are the same as those proposed for the North Marina Project. The main differences between the Moss Landing and North Marina Projects are that

the North Marina Project's desalination facility would be constructed at a different site (in North Marina) and the desalination facility's production capacity would be slightly greater than that of the Moss Landing Project's facility. The components of the Moss Landing and North Marina Projects are sufficiently defined so as to lend themselves to relatively near-term implementation and analysis at a project level of detail. This project level analysis is provided in Chapter 4.

As described in Chapter 5, the Regional Project (the second alternative project) includes two separate but related phases. The Phase 1 elements taken together would satisfy the replacement demand function of the CWP (in the same manner as the Moss Landing Project or the North Marina Project) and could also satisfy broader regional objectives to coordinate water supply for both CalAm and Marina Coast Water District customers. The components of Phase 1 are either already approved (with some being currently implemented) or are sufficiently defined so as to lend themselves to relatively near-term implementation and analysis at a project level of detail. This project level analysis is provided in Chapter 6.

On the other hand, the components within Phase 2 represent a set of actions that could be taken to satisfy longer term regional water demand, including water for approved growth, but may also require more detailed CEQA review at the appropriate time if and when they are formally considered for approval. The Phase 2 components are included in the Regional Project for informational purposes since they would not function as an alternative to strictly meeting the objectives of the CWP and none of them would be subject to CPUC approval at this juncture. As such, the Phase 2 components are studied at a more general, programmatic level, consistent with the available information and level of detail associated with those elements.

When subsequent environmental review for facilities evaluated at a program level of detail is undertaken, the information contained in this EIR will be revisited to determine the accuracy and the adequacy of these evaluations.

## ES.3.2 Schedule

Schedule representing permitting, design, and implementation to the Coastal Water Project is on pages ES-7 to ES-9.

## ES.4 Summary of Impacts

**Tables ES-2 and ES-3**, at the end of this chapter, present a summary of the environmental impacts associated with each of the proposed components of the Moss Landing Project, the North Marina Project, the Phase 1 Regional Project, and the Phase 2 Regional Project. Also provided on the summary tables are collective impact summaries stating the overall environmental impacts for each of the projects.

The level of significance for each impact was determined using significance criteria (thresholds) developed for each category of impacts. The significance criteria are presented in the appropriate sections of Chapter 4 and 6. Significant impacts are those adverse environmental impacts that would meet or exceed the significance thresholds; less-than-significant impacts would not exceed the thresholds.

## **ES.4.1 Significant and Unavoidable Impacts**

There are several impacts discussed in this EIR that are considered significant and unavoidable. These impacts have been identified for some projects in the areas of geology, soils, and seismicity; air quality; and, noise. In addition, some of the indirect effects of growth resulting from implementation of the CWP as a whole (see Chapter 8) are considered significant and unavoidable for Phase 2 of the Regional Project. These impacts are discussed by resource area below.

### **ES.4.1.1 Greenhouse Gas (GHG) Emissions**

The total estimated GHG emissions associated with the operations of the proposed Moss Landing Project or the North Marina Project would exceed the amount of CARB's preliminary draft significance threshold. Implementation of Mitigation Measures (detailed in Chapter 4, Section 4.8) would reduce short-term construction and long-term operations emissions of GHG; however, there appear to be no feasible mitigation measures that could reduce GHG emissions levels to below 7,000 metric tons without fundamentally changing the project. Therefore, impacts are considered to be significant and unavoidable.

The total estimated GHG emission amounts that would be associated with the operations of Phase 1 and Phase 2 of the Regional Project would exceed the amount of CARB's preliminary draft significance threshold. Implementation of Mitigation Measures (detailed in Chapter 4, Section 4.8) would reduce short-term construction and long-term operations emissions of GHG; however, there appear to be no feasible mitigation measures that could reduce GHG emissions levels to below 7,000 metric tons without fundamentally changing the project. Therefore, impacts are considered to be significant and unavoidable.

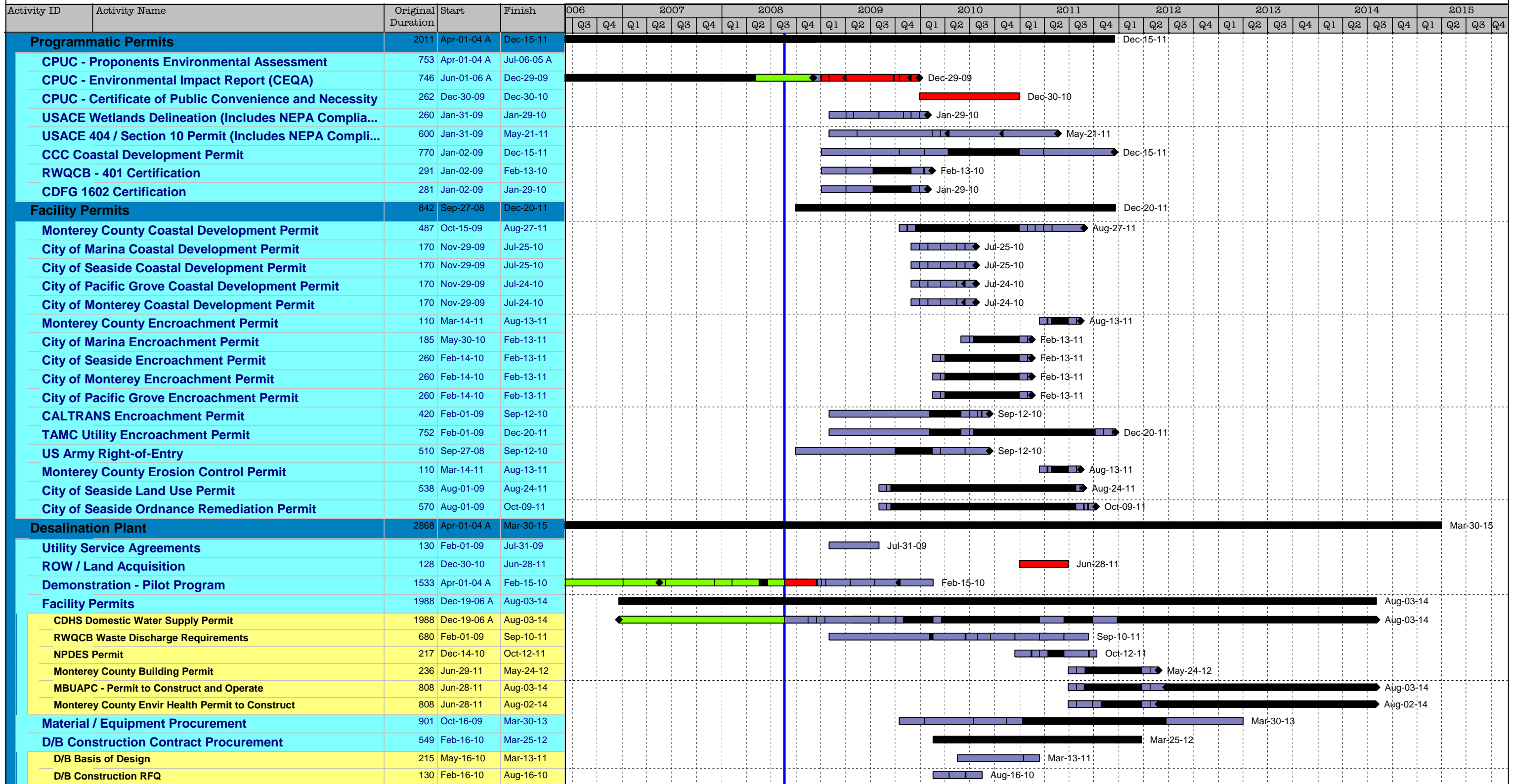
### **ES.4.1.2 Air Quality**

Emissions from construction of the Regional Project components have been assumed to occur simultaneously as a "worst-case" scenario for daily emissions. The worst-case day emissions would occur when construction of most of the components would overlap. It is anticipated that emissions associated with construction of Phase 1 and Phase 2 of the Regional Project would exceed the MBUAPCD's significance threshold of 82 pounds per day of PM<sub>10</sub>, resulting in a potentially significant impact. While Mitigation Measures (detailed in Chapter 4, Section 4.8) would reduce emissions of PM<sub>10</sub> during construction, there would be no guarantee that the measures would reduce the total estimated emissions of the Regional Project to below the MBUAPCD's significance threshold. Therefore, impacts to regional air quality that would result from construction of the entire Regional Project are considered to be significant and unavoidable.

### **ES.4.1.3 Noise**

Construction activities associated with several project components—at least one component in each of the three projects (Moss Landing, North Marina, and Regional Projects) analyzed in this EIR—would result in significant and unavoidable noise impacts due to their proximity to

# Coastal Water Project



- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- Summary

## Summary

Note: The original duration period for each activity is based on the best professional judgment of the employees of California American Water and its consultants assisting with development of the Coastal Water Project. Because completion of activities is dependent upon action by staff of and receipt of approvals from federal, state and local agencies, the duration period for each activity is subject to change due to factors outside the control of California American Water.







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sensitive receptors. For all three projects, construction of the ASR facilities would result in significant and unavoidable noise impacts. For the North Marina Project, construction of the slant wells as the source water intake would result in additional significant and unavoidable noise impacts. For the Regional Project, nighttime well drilling activities that would be associated with the Phase 1 and Phase 2 projects would be significant and unavoidable depending on the sites' proximities to existing sensitive receptors.

#### **ES.4.1.4 Liquefaction**

The proposed storage of 7,000 AF of recycled water in the shallow unconfined aquifer underlying Armstrong Ranch as part of the Phase 2 Regional Project could result in an increased risk of project induced liquefaction and related ground failure from a major earthquake. The 7,000 acre feet of recycled water would be stored within an 80-foot thickness of dune sand underlying the 220 acre parcel that is the proposed site for construction of Regional Project Phase 1 facilities (a desalination plant and a surface water treatment plant). Saturating this 80-foot dune sand unit with recycled water could result in a condition that is susceptible to liquefaction during an earthquake resulting in an increased risk of Project induced liquefaction and related ground failure from a major earthquake resulting in structural damage to Phase 1 Regional Project facilities. A detailed geotechnical engineering evaluation is necessary to further assess the liquefaction risk before mitigation strategies to offset the effects of liquefaction can be considered or designed. The potential for a project-induced liquefaction condition is considered a significant and unavoidable impact (see discussion of Impact 6.5-5 in Chapter 6, Section 6.5 for more explanation).

The proposed sub-surface slurry cut-off wall installed for containment of recycled water in the shallow unconfined aquifer underlying Armstrong Ranch could be structurally damaged from a major earthquake resulting in loss of containment of perched groundwater. The final design of the slurry cut-off wall (groundwater dam) is not complete and would require additional geotechnical and structural design input and considerations. Until the final design of the wall is complete and there is ample evidence to clearly demonstrate that a cut-off wall or groundwater dam can effectively contain water in the Armstrong Ranch dune sand sediments without the risk of failure, it is assumed that the cutoff wall would have a potential to fail. The most probable failure mechanism would be deformation from strong earthquake ground motion leading to cracking or complete failure of weakened sections. Failure of the slurry wall or groundwater dam could cause the release of recycled water from the saturated dune sands. The impacts to the environment from failure of the slurry cut-off wall could include 1) groundwater degradation of native groundwater by recycled water, 2) possible inundation of the down gradient and adjacent landfill, 3) alterations to groundwater conditions (flow gradients, vertical pressure heads, groundwater mounding) under the lands adjacent to the Armstrong Ranch, and 5) geotechnical effects such as surface settlement resulting in ground collapse (sink holes). Additional geotechnical testing and design would be necessary to adequately ensure that failure could be avoided, controlled, or the results of a failure could be mitigated. Until additional design and testing is complete, slurry cut-off wall failure is considered a significant and unavoidable impact of the project (see discussion of Impact 6.5-5 in Chapter 6, Section 6.5 for more explanation).

### **ES.4.1.5 Growth**

Although the water supply provided by the Phase 2 Regional Project appears to be largely consistent with the growth assumptions for the general plans within the CalAm service area, and the impacts of such growth have been analyzed and addressed in environmental documents prepared for those plans, the Phase 2 Project would also provide for growth outside CalAm's service area. For all topical areas, the Phase 2 Project would remove an obstacle to growth (by providing a reliable water supply). As such, the Phase 2 project would have a significant growth inducing impact. Since there are no feasible mitigation measures that would lessen the impact, the impact would be considered significant and unavoidable.

## **ES.4.2 Cumulative Impacts**

Due to the breadth and extent of the CWP projects, this EIR provides an analysis both of the collective impacts of all project-level and program-level projects included in the CWP as well as the potential for overlap with other pertinent projects proposed and/or planned in the region. The collective impact discussion provides a synthesis of both project- and program-level impacts for all proposed CWP facilities discussed in Chapters 4 and 6, and indicates the potential for overlapping impacts associated with multiple projects proposed for construction within the same time frame and same geographic area. The most noteworthy of these cumulative impacts are to air quality, noise, and seismic hazards (project induced liquefaction). These and all other cumulative impacts are summarized below and discussed more fully in Chapter 9.

### **ES.4.2.1 Construction Related Impacts**

Construction-related cumulative impacts resulting from the projects discussed in Chapter 9 are summarized below for each resource area where the overall cumulative impact is determined to be significant. Section 9.4.1 provides discussion of cumulative impacts for all project facilities.

#### ***Air Quality***

Concurrent construction of the projects listed in Table 9-1 would generate greater emissions of criteria pollutants, including fugitive dust and equipment exhaust particulate matter and could cause a significant cumulative impact. The regional air basin is non-attainment for ozone and particulate matter, which is treated as a significant cumulative impact for purposes of this analysis. However, implementation of the mitigation measures, as discussed in Chapter 4, Section 4.8, such as implementing a fugitive dust control plan, stabilizing dust on access roads, and imposing vehicle idling restrictions would reduce particulate matter emissions from the Moss Landing Project to a less than cumulatively considerable level. Ozone producing emissions associated with construction activities from the Moss Landing Project would also not be substantial and therefore, would be less than cumulatively considerable. However, as discussed in Chapter 6, Section 6.8, Phase 1 and Phase 2 Projects under the Regional Project would result in a significant and unavoidable impact and would have a cumulatively considerable contribution toward cumulative impacts.

## **Noise**

Concurrent construction of the projects listed in Table 9-1 could increase noise levels temporarily and violate the noise standards established in the local general plans or noise ordinances. The increased noise levels as well as the temporary vibration from construction equipment could have an adverse effect on nearby sensitive receptors, mostly in the case of projects located in the same neighborhoods or in close vicinity of sensitive receptors (such as development projects in Marina, Seaside and Monterey). As discussed in Chapter 4, Section 4.9, Noise, the impacts from the Moss Landing and North Marina Projects would be significant despite mitigation such as scheduling construction activities during specific hours of the day, notifying residents in the construction area, using equipment with sound control devices, and implementation of a Vibration Mitigation Plan. Concurrent construction activities would result in a significant cumulative impact.

As discussed in Chapter 4, Section 4.9, the noise impact from the construction of Moss Landing Project would be significant and unavoidable due to the increased noise levels from the ASR facilities. The project contribution would be cumulatively considerable.

As discussed in Chapter 6, Section 6.9, the noise impacts from the construction of the ASR facilities as part of Phase 1 and Phase 2 of the Regional Project would be significant and unavoidable, and therefore the Regional Project would have a cumulatively considerable contribution toward cumulative impacts.

### **ES.4.2.2 Operational Impacts**

Operational cumulative impacts resulting from the projects discussed in Chapter 9 are summarized below for each resource area where the overall cumulative impact is determined to be significant. Chapter 9, Section 9.4.1 provides discussion of cumulative impacts for all project facilities.

#### ***Surface Water***

Under Phase 2 of the Regional Project, recycled water would be distributed for summertime irrigation in Fort Ord, Marina, and Seaside areas through the Regional Urban Water Augmentation Project pipeline. The pipeline would be used for conveying advanced treated water for storage in the Seaside Groundwater Basin in winter. As further explained in Chapter 6, Section 6.1, the water quality of the advanced treated water for ASR could be adversely affected. The impact is therefore considered to be significant and unavoidable. The contribution of Phase 2 projects to cumulative hydrology and water quality impacts would therefore be cumulatively considerable.

#### ***Air Quality***

As described in Chapter 4, Section 4.8, Air Quality, long-term greenhouse gas (GHG) emissions associated with the substation for the Moss Landing and North Marina Projects would be approximately 3.3 metric tons CO<sub>2</sub>e<sup>1</sup> per year and electricity use associated with the Moss

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<sup>1</sup> Carbon dioxide equivalents (see Section 4.8, Air Quality, for further details).

Landing Project and the North Marina Project would result in approximately 11,279 and 12,637 metric tons of CO<sub>2</sub>e each year, respectively. The total estimated GHG emissions that would be associated with the operations of the proposed Moss Landing Project or the North Marina Project would be at least twice the amount of California Air Resources Board's (CARB) preliminary draft significance threshold for industrial uses, which is based on cumulative emissions generated in California. Mitigation measures have been imposed on the project to avoid or substantially reduce, to the extent feasible, its GHG emissions. Nonetheless the project would still exceed the preliminary draft significance threshold established by CARB. As such, the project would have a significant and unavoidable cumulative impact to GHG emissions, as further explained in Chapter 4, Section 4.8.

## **ES.5 Analysis of Alternatives**

In addition to the Applicant's Proposed project (the Moss landing Project), this EIR evaluates 2 other alternatives (the North Marina and Phase 1 Regional Projects) at an equal level of detail; the Phase 2 Regional Project is evaluated more generally. Chapter 7 of this EIR also evaluates alternative components for each of the projects (e.g. intakes, outfalls, pipeline routes, plant locations), as well as a Ship-Based Desalination project; the Phase 1 Regional Project Plus Seaside Groundwater Basin Replenishment Project; and a CalAm Growth Project in addition to the required No Project alternative.

## **ES.6 Issues to be Resolved and Areas of Controversy**

### **ES.6.1 Unresolved Issues**

*Relationships and working agreements between agencies involved in the Regional Project need to be developed and formalized:* In order to implement the Regional Project, MCWD will assume the role of Project Sponsor of the desalination facility and the surface water treatment plant; MRWPCA will continue to be the owner and operator of the outfall, and; CalAm will be a water purchaser and could be the desalination project operator.

*The Future of Once Through Cooling (OTC) at Moss Landing is uncertain:* Because OTC has been under increasing scrutiny due to entrainment and impingement of marine organisms at the sea water intakes (see Chapter 4, Section 4.3, Marine Biological Resources), there is a possibility that the MLPP OTC system may not be re-permitted in the future. In the absence of the OTC system, the desalination facility would require a new intake facility or it would have to utilize the existing intake to draw 22.2 mgd of source water from the Moss Landing Harbor.

### **ES.6.2 Areas of Controversy**

*Use of the Salinas Valley groundwater for use on the Monterey Peninsula:* The North Marina Project will utilize subsurface intakes as a desalination source water supply, as will Phase 1 of the Regional Project. The projects has been defined in such a way as to ensure that water drawn from the Salinas Valley groundwater basin remains in the basin. But the concept may be controversial.

*Appropriate use of recycled water and recycled water infrastructure:* There are multiple ways to utilize recycled water that is produced at the Salinas Valley Reclamation Project, which is operated by the MRWPCA. Some support agriculture and some support urban irrigation uses. How the recycled water is used, who has rights to use or deliver it, and what facilities are used for its delivery, are controversial issues that are not completely resolved.

*Public versus Private ownership of a desalination facility in Monterey County:* By Monterey County ordinance, private companies cannot own a desalination project. CalAm is a private, investor owned utility.

*Provision of replacement water (or water for existing uses only) versus water for approved growth:* The Applicant's Proposed Project at Moss Landing, the North Marina Project and Phase 1 of the Regional Project, all provide water for existing uses only. The Phase 2 Regional Project includes supplies to meet the needs of approved growth. While any water supply project in Monterey County is controversial, a project that includes water for growth, may be very controversial.

## ES.7 Organization of This EIR

This Draft EIR has been organized into the following sections:

The **Summary** contains an overview of the project, including project description, impacts, and various conclusions.

**Chapter 1** is an introduction to the CEQA process and the organization of the EIR.

**Chapter 2** describes current and future water demands in both the California American Water (CalAm) Monterey District service area and the broader region of northern Monterey County that would be served under a regional project alternative, and the supplies available to meet this demand.

**Chapter 3** contains a description of two projects: Moss Landing Project (the Applicant Proposed Project) and North Marina Project.

**Chapter 4** includes 14 sections that address the impacts of the Moss Landing Project and North Marina Project on various resource areas.

**Chapter 5** contains a description of the Regional Project.

**Chapter 6** includes 14 sections that address the impacts of the Regional Project on various resource areas.

**Chapter 7** presents a comparison of alternatives that have been considered during the process of compiling this EIR.

**Chapter 8** discusses the potential of the CWP to cause "growth-inducing" impacts.

**Chapter 9** discusses the potential for the CWP to cause cumulative impacts.

**Chapter 10** is a list of preparers of the document.

**TABLE ES-2  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact		
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT	
Surface Water Resources	<b>4.1-1:</b> Project construction activities could cause erosion and increase stormwater runoff resulting in an adverse water quality impact.	SM	SM	--	SM	SM	SM	--	SM	SM	SM	SM	SM	SM	
	<i>EIR Mitigation Measures</i>														
	4.1-1: Additional Erosion Control Measures and Monitoring Program	X	X		X	X	X		X	X	X	X	X	X	X
	<b>4.1-2:</b> Excavation during construction could require dewatering of shallow groundwater. The water discharge, if contaminated, could adversely affect surface water.	SM	SM	--	SM	SM	SM	--	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.1-2: Extracted Groundwater Measures	X	X		X	X	X		X	X	X	X	X	X	X
	<b>4.1-3:</b> The product water generated at the desalination facilities would be used as potable water that would be compliant with the drinking water standards.	--	--	LTS	--	--	--	LTS	--	--	--	--	--	LTS	LTS
	<i>EIR Mitigation Measures</i>														
	None required.														
	<b>4.1-4:</b> The project discharge from the desalination facility could degrade the marine water quality in Monterey Bay.	--	--	SM	--	--	--	SM	--	--	--	--	--	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.1-4a: Moss Landing Monitoring Program			X										X	
	4.1-4b: Water Sampling Measures			X										X	
	4.1-4c: Develop an Aeration System							X						X	
	<b>4.1-5:</b> The proposed project would add impervious surfaces that could alter the drainage pattern and increase storm runoff that could exceed the storm drainage system. The increased runoff flow could cause downstream erosion, siltation, and/or flooding.	LTS	LTS	--	--	LTS	LTS	--	--	LTS	LTS	LTS	--	LTS	LTS
None required.															



**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
<b>4.1-6:</b> Project operation would result in reduced pumping of the Carmel River water resulting in a relatively minor increase in the flows in Carmel River. <i>(Impact is to Carmel River, which is not included on this table. Refer to Section 4.4.1, Surface Water Resources)</i>	--	--	--	--	--	--	--	--	--	--	--	--	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.1-7:</b> Portions of the proposed project would be located within a 100-year flood hazard area and could impede or redirect flood flows.	LTS	LTS	--	LTS	--	--	--	--	--	--	--	--	LTS	--
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.1-8:</b> The proposed project could expose people or structures to risk from flooding resulting from failure of a dam or levee.	LTS	LTS	--	LTS	--	--	--	--	--	--	--	--	LTS	--
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.1-9:</b> The proposed project facilities could expose people or structures to risk from flooding due to a tsunami.	SM	SM	--	LTS	--	--	--	--	--	--	--	--	SM	LTS
<i>EIR Mitigation Measures</i>														
4.1-9: Tsunami Run-up Study	X	X											X	
<b>4.1-10:</b> The proposed project facilities could be subject to flooding due to the sea level rise from global warming.	LTS	LTS	--	LTS	--	--	--	--	--	--	--	--	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
<b>4.2-1:</b> The construction and development of ASR injection / extraction wells or desalination water supply wells may cause short-term changes in groundwater quality or violate waste discharge requirements.	--	--	--	--	--	--	--	--	--	--	SM	--	SM	SM
<i>EIR Mitigation Measures</i>														
4.2-1: Prepare Report of Waste Discharge/NPDES permit											X		X	X
<b>4.2-2:</b> The injection and storage of Carmel River and/or desalinated water into the SGB ASR program may violate water quality standards or waste discharge requirements.	--	--	--	--	--	--	--	--	--	--	LTS	--	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.2-3:</b> The storage of Carmel River or desalinated water in the ASR program would increase groundwater storage and water levels in the SGB.	--	--	--	--	--	--	--	--	--	--	B	--	B	B
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.2-4:</b> Operation of the proposed slant wells for the NMA desalination water supply could lower groundwater levels and damage neighboring water supply wells within the vicinity of the proposed project.	--	--	--	--	--	LTS	--	--	--	--	--	--	--	LTS
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.2-5:</b> Operation of the proposed slant wells for the NMA desalination water supply could deplete groundwater resources within the Salinas Valley and export groundwater from the SVGB.	--	--	--	--	--	LTS	--	--	--	--	--	--	--	LTS
<i>EIR Mitigation Measures</i>														
None required.														

**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact		
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT	
Groundwater Resources	<b>4.2-6:</b> Operation of the proposed slant wells for the NMA water supply may otherwise degrade water quality by inducing seawater intrusion.														
	-	-	-	-	-	LTS	-	-	-	-	-	-	-	LTS	
	<i>EIR Mitigation Measures</i>														
None required.															
Marine Biological Resources	<b>4.3-1:</b> Intake of source water for the proposed desalination facility could potentially result in nominal additional entrainment of marine and estuarine aquatic organisms.														
	-	LTS	-	-	-	-	-	-	-	-	-	-	LTS	-	
	<i>EIR Mitigation Measures</i>														
	None required.														
	<b>4.3-2:</b> The project discharge from the desalination facility could degrade marine habitat and species.														
	-	-	SM	-	-	-	SM	-	-	-	-	-	-	SM	SM
	<i>EIR Mitigation Measures</i>														
See Measures 4.1-4a and 4.1-4b															
4.3-2a: Sampling of Benthic Organisms															
			X										X		
4.3-2b: Measure Sediment Size Distribution of Inflow and Backwash Water															
			X										X		
See Measure 4.1-4c															
Biological Resources	<b>4.4-1:</b> The project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.														
	SM	-	-	SM	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	
	<i>EIR Mitigation Measures</i>														
	4.4-1a: Avoid Harm or Harassment of Special-Status Invertebrates (Smith's Blue Butterfly)														
				X		X							X	X	
4.4-1b: Avoid Harm or Harassment of Tidewater Gobies and of South-Central California Coast Steelhead, Pacific Lampreys, and River Lampreys															
				X									X		

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
4.4-1c: Avoid Harm or Harassment of California Red-legged Frogs, California Tiger Salamanders, and Santa Cruz Long-Toed Salamanders	X			X	X	X							X	X
4.4-1d: Avoid Direct Mortality and/or Disturbance of Special-Status Plant Populations	X				X				X		X	X	X	X
4.4-1e: Avoid Construction Impacts on Burrowing Owls	X			X	X	X		X			X		X	X
4.4-1f: Avoid Construction Impacts on Other Special-Status Birds	X			X	X	X		X			X		X	X
<b>4.4-2:</b> The project may adversely affect riparian habitat or other sensitive natural community identified in local or regional plans, policies regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	SM	-	-	SM	LTS	LTS	-	SM	SM	LTS	SM	LTS	SM	SM
<i>EIR Mitigation Measures</i>														
4.4-2a: Avoid Construction Impacts on Riparian Habitat	X			X									X	
4.4-2b: Avoid Construction Impacts on Sensitive Upland Habitats								X	X		X		X	X
<b>4.4-3:</b> The project may adversely affect federally protected wetlands as defined by Section 404 of the Clean Water Act.	SM	-	-	SM	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	SM	LTS
<i>EIR Mitigation Measures</i>														
4.4-3: Wetland Protection Measures	X			X									X	
<b>4.4-4:</b> The project may adversely affect the movement of native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.4-5:</b> The project may conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.	SM	-	-	SM	SM	-	-	SM	SM	SM	SM	LTS	SM	SM
<i>EIR Mitigation Measures</i>														
4.4-5: Tree Survey	X			X	X			X	X	X	X		X	X

**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact															
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT														
Biological Resources	4.4-6: Operation of the project would alter Carmel River flows and may thus indirectly affect federally-listed threatened steelhead and other special-status aquatic species. This would be a beneficial impact. (Impact is to Carmel River is beneficial, and not included on this table. Refer to Section 4.4.4, Biological Resources)														LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
	<i>EIR Mitigation Measures</i>																											
	None required.																											
Geology, Soils and Seismicity	4.5-1: Large earthquakes would be expected to damage the proposed facilities, impairing and/or disrupting their intended operations if not engineered to withstand such ground shaking.														SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>																											
	4.5-1: Conduct Geotechnical Investigation														X	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.5-2: Proposed pipelines and facilities could incur damage as a result of underlying soil properties (high shrink-swell potential, and corrosivity).														SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>																											
	4.5-2: Compliance with Applicable Policies to Reduce Adverse Effects of Expansive Soils and Corrosivity														X	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.5-3: Continuing coastal erosion could expose sub-surface components of the project which may result in these structures being damaged or destroyed within the project lifetime rendering delivery systems inoperable.														--	--	--	--	--	LTS	--	--	--	--	--	--	--	LTS
	<i>EIR Mitigation Measures</i>																											
	None required.																											
	4.5-4: Potential injury and/or damage resulting from landslides including earthquake induced landslides.														LTS	LTS	LTS	LTS	LTS	LTS	LTS	SM	SM	LTS	LTS	LTS	SM	SM
<i>EIR Mitigation Measures</i>																												
	4.5-4: Perform Site-Specific Geotechnical Evaluations																					X	X			X	X	

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact															
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Geology, Soils & Seismicity	4.5-5: Seismically induced ground failure, including liquefaction and settlement														SM	SM	SM	SM	LTS	SM	SM	LTS	LTS	LTS	SM	SM	SM	
	<i>EIR Mitigation Measures</i>																											
	4.5-5: Compliance with Applicable Policies to Reduce Adverse Effects of Groundshaking and Liquefaction														X	X	X	X		X	X					X	X	X
Hazards and Hazardous Materials	4.6-1: Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.														SM	--	--	SM	SM	SM	--	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>																											
	4.6-1a: Conduct Phase I Environmental Site Assessment														X			X	X	X		X	X	X	X	X	X	X
	4.6-1b: Prepare Project-Specific Health and Safety Plan														X			X	X	X		X	X	X	X	X	X	X
	4.6-1c: Site Health and Safety Supervisor														X			X	X	X		X	X	X	X	X	X	X
	4.6-1d: Compliance with Excavation, Digging, and Development Regulations														X			X	X	X		X	X	X	X	X	X	X
	4.6-1e: Materials Disposal Plan														X			X	X	X		X	X	X	X	X	X	X
	4.6-2: Potential for accidental release of hazardous materials from construction activities.														LTS	--	--	LTS	LTS	LTS	--	LTS	LTS	LTS	LTS	LTS	LTS	LTS
	<i>EIR Mitigation Measures</i>																											
	None required.																											
	4.6-3: Handling and Use of Hazardous Materials within ¼-mile of a school during construction.														--	--	--	--	--	--	--	LTS	--	--	LTS	--	LTS	LTS
<i>EIR Mitigation Measures</i>																												
None required.																												
4.6-4: Increased risk of wildland fires during construction in high fire hazard areas.														--	--	--	LTS	--	--	--	LTS	LTS	LTS	LTS	--	LTS	LTS	
<i>EIR Mitigation Measures</i>																												
None required.																												

**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact		
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Hazardous and Hazardous Materials	<b>4.6-5:</b> Potential for accidental release of chemicals or petroleum products.														
	LTS	--	--	--	LTS	--	--	--	LTS	LTS	LTS	--	LTS	LTS	
	<i>EIR Mitigation Measures</i>														
	None required.														
Hazardous and Hazardous Materials	<b>4.6-6:</b> Handling of hazardous materials within ¼-mile of a school.														
	--	--	--	--	--	--	--	LTS	--	--	LTS	--	LTS	LTS	
	<i>EIR Mitigation Measures</i>														
	None required.														
Traffic and Circulation	<b>4.7-1:</b> Short-term increases in vehicle trips by construction workers and construction vehicles on area roadways.														
	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	
	<i>EIR Mitigation Measures</i>														
	4.7-1: Road Encroachment Permits and Traffic Control and Safety Assurance Plan														
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.7-2:</b> Reduction in the number of, or the available width of, travel lanes on roads where pipeline construction would occur, resulting in short-term traffic delays for vehicles traveling past the construction zones.														
	--	--	--	SM	--	SM	--	SM	--	--	--	SM	SM	SM	
	<i>EIR Mitigation Measures</i>														
	4.7-2: Additional Requirements to be Incorporated into the Traffic Control and Safety Assurance Plan														
			X		X		X				X	X	X		
See Measure 4.7-1															
			X		X		X				X	X	X		
<b>4.7-3:</b> Demand for parking spaces to accommodate construction worker vehicles.															
SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM		
<i>EIR Mitigation Measures</i>															
4.7-3: Identify Locations for Construction Worker Parking															
X	X	X	X	X	X	X	X	X	X	X	X	X	X		
See Measure 4.7-1															
X	X	X	X	X	X	X	X	X	X	X	X	X	X		

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
Traffic and Circulation	<b>4.7-4:</b> Potential traffic safety hazards for vehicles, bicyclists, and pedestrians on public roadways.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>													
	4.7-4: Roadside Safety Protocols	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Measure 4.7-1	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.7-5:</b> Access disruption to adjacent land uses and streets for both general traffic and emergency vehicles.	--	--	--	SM	--	SM	--	SM	--	--	--	SM	SM
	<i>EIR Mitigation Measures</i>													
	4.7-5: Access Safety Measures				X		X		X				X	X
	See Measure 4.7-1				X		X		X				X	X
	<b>4.7-6:</b> Disruptions to transit and railroad service on pipeline alignment routes.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>													
	4.7-6: Coordination with Monterey-Salinas Transit and UPRR	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Measure 4.7-1	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.7-7:</b> Increased wear-and-tear on the designated haul routes used by construction vehicles.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>													
	4.7-7: Documentation of Road Conditions Prior to Project Construction	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.7-8:</b> Long-Term Project Operations and Maintenance.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														



**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
<b>4.8-1:</b> Construction activities would generate emissions of criteria pollutants, including fugitive dust and equipment exhaust particulate matter.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>														
4.8-1a: Construction Fugitive Dust Control Plan	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.8-1b: Stabilize Dust on Access Roads	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.8-1c: Idling Restrictions	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.8-1d: Construction Emissions Control Plan														
<b>4.8-2:</b> Project operations would result in emissions, including diesel particulates, from testing and emergency use of standby generators, as well as material haul trips and employee trips related to inspections and maintenance.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.8-3:</b> Construction activities would generate a cumulatively considerable net increase of PM10.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>														
See Measures 4.8-1a thru 4.8-1d.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>4.8-4:</b> Construction activities would generate emissions of diesel particulate matter (DPM), potentially exposing local sensitive receptors to pollutant concentrations.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>														
None required.														
<b>4.8-5:</b> Conflict with the State of California's goal of reducing greenhouse gas emissions to 1990 levels by 2020 (AB 32).	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU
<i>EIR Mitigation Measures</i>														
See Measure 4.8-1c.	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact		Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
		Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
Air Quality	4.8-5a: Aerodynamic Efficiency for Trucks	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.8-5b: Low SF <sub>6</sub> Leak Rate Circuit Breaker and Monitoring	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Noise and Vibration	<b>4.9-1:</b> Construction activity would violate standards established in the local general plans or noise ordinances, and/or would adversely affect nearby sensitive receptors.	SM	--	--	SM	SM	SU	--	SM	LTS	SM	SU	SM	SU	SU
	<i>EIR Mitigation Measures</i>														
	4.9-1a: Locate Stationary Noise-Generating Equipment	X			X	X	X		X	X	X	X	X	X	X
	4.9-1b: Limit Construction Activity Hours	X			X	X	X		X	X	X	X	X	X	X
	4.9-1c: Sound Control Devices	X			X	X	X		X	X	X	X	X	X	X
	4.9-1d: Notify Nearby Residences and other Sensitive Receptors	X			X	X	X		X	X	X	X	X	X	X
	4.9-1e: Obtain Approval for Night-Time Construction												X		X
	4.9-1f: Construction Activities Outside School Hours												X		X
	<b>4.9-2:</b> Operation of the proposed desalination plant and other conveyance facilities would potentially increase existing noise levels, which could exceed noise level standards and/or result in nuisance impacts.	SM	--	--	LTS	SM	LTS	--	LTS	LTS	SM	SM	LTS	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.9-2: Noise Enclosures and Setback	X				X					X	X		X	X
	<b>4.9-3:</b> Short-term construction within the Project area would result in temporary vibration impacts on nearby sensitive receptors and structures.	LTS	--	--	LTS	LTS	SM	--	LTS	LTS	LTS	LTS	LTS	LTS	SM
	<i>EIR Mitigation Measures</i>														
See Measures 4.9-1b and 4.9-1d.						X								X	
4.9-3: Use Trenchless Technology						X								X	

**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact		
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT	
Land Use, Recreation and Agriculture	<b>4.10-1:</b> Components of the Moss Landing Project or North Marina Project may permanently divide or temporarily disrupt an established community.	LTS	--	--	SM	SM	LTS	--	SM	SM	SM	SM	SM	SM	
	<i>EIR Mitigation Measures</i>														
	4.10-1a: Develop Construction Detours as Stated in Traffic Control and Safety Assurance Plan (see Measure 4.7-1)				X	X			X	X			X	X	
	4.10-1b: Safe Access for Pedestrians and Bicyclists as Stated in Traffic Control and Safety Assurance Plan (see Measure 4.7-4)				X	X			X	X			X	X	
	4.10-1c: Restore Disturbed Areas				X	X					X	X	X	X	
	See measures in Section 4.8									X	X		X	X	
	See measures in Section 4.9									X	X		X	X	
	See measures in Section 4.12										X		X	X	
	<b>4.10-2:</b> Components of the project may conflict with applicable land use plans, policies, or regulations of agencies with jurisdiction over the project.	LTS	--	--	SM	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	SM	LTS
	<i>EIR Mitigation Measures</i>														
	4.10-1b: Safe Access for Pedestrians and Bicyclists as Stated in Traffic Control and Safety Assurance Plan (see Measure 4.7-4)				X									X	
	<b>4.10-3:</b> Implementation of the project could result in the permanent conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance from agricultural operation.	LTS	LTS	LTS	SM	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	SM	SM
	<i>EIR Mitigation Measures</i>														
4.10-3: CalAm shall develop a construction schedule that avoids conflict with growing seasons and rotation patterns of crops.															
<b>4.10-4:</b> Project facilities could conflict with agricultural zoning or Williamson Act contracts.	--	--	--	LTS	--	--	--	--	--	--	--	--	LTS	--	
<i>EIR Mitigation Measures</i>															
None required.															

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
Land Use, Recreation and Agriculture	<b>4.10-5:</b> The project could potentially increase the use of existing parks or recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
	<i>EIR Mitigation Measures</i>													
	None required.													
	<b>4.10-6:</b> The project could potentially include recreational facilities or require construction or expansion of recreational facilities that might have an adverse physical effect on the environment.	--	--	--	--	--	--	--	--	--	--	--	--	--
	<i>EIR Mitigation Measures</i>													
None required.														
Public Services and Utilities	<b>4.11-1:</b> Potential damage to or interference with existing public utilities.	SM	--	--	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>													
	4.11-1a: Verify locations of overhead utilities.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1b: Verify locations of underground utilities.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1c: Verify locations of underground utilities.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1d: Confirm the specific location of all high priority utilities.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1e: Protect, support, or remove underground utilities as necessary.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1f: Notify local fire departments any time damage to a gas utility results.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1g: Contact utility owner if any damage occurs.	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1h: Observe Department of Health Services (DHS) standards.	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>4.11-2:</b> Potential short-term increase in demand for police, fire, or emergency services. drainage facilities.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	

**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact		
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT	
Public Services and Utilities	<i>EIR Mitigation Measures</i>														
	4.7-1: Road Encroachment Permits and Traffic Control and Safety Assurance Plan.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-1a through 4.11-1h (as above): Verify Utility Locations	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.11-3:</b> Potential adverse effects on solid waste landfill capacity and/or failure to achieve state-mandated solid waste diversion rates	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.11-3a: Project facility design and construction methods that produce less waste	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	4.11-3b: Recovering, reusing, and recycling wastes	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.11-4:</b> Potential adverse effects on wastewater treatment facilities.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.11-4a: Demonstrate that the CIP backwash water meets the standards for acceptance.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.11-4b: Conduct a study to evaluate the potential effect of brine salinity on the outfall components	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4.11-3c: Demonstrate that the residuals and solid waste generated by the greensand filtration process are acceptable	--	--	--	X	X	X	X	X	X	X	X	X	X	X	
Aesthetic Resources	<b>4.12-1:</b> Construction associated with proposed pipelines and facilities could temporarily degrade the existing visual character of a site or surroundings.	LTS	--	--	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
	<i>EIR Mitigation Measures</i>														
	None required.														
<b>4.12-2:</b> Permanent facilities could have an adverse effect on scenic vistas, damage scenic resources, or degrade the existing visual character or quality of the site and its surroundings.	LTS	--	--	LTS	LTS	LTS	--	LTS	SM	SM	--	--	SM	SM	

**TABLE ES-2 (Continued)  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact		Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact	
		Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT
Aesthetic Resources	<i>EIR Mitigation Measures</i>														
	4.12-2a: Facility Design									X	X			X	X
	4.12-2b: Fencing									X	X			X	X
	4.12-2c: Facility Siting									X	X			X	X
	<b>4.12-3:</b> Exterior lighting associated with proposed facilities would create new sources of light and glare in the surrounding areas.	SM	--	--	--	SM	--	--	--	SM	SM	SM	--	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.12-3a: Shielded Lighting	X				X				X	X			X	X
4.12-3b: Limited Outdoor Lighting Intensity	X				X				X	X			X	X	
Cultural Resources	<b>4.13-1:</b> Project Construction Has the Potential to Affect Known Archaeological Resources	SM	--	--	SM	SM	SM	--	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	4.13-1a: Pre-Construction Survey	X								X		X		X	X
	4.13-1b: Avoidance	X				X	X			X		X	X	X	X
	4.13-1c: Construction Personnel Training	X				X	X			X		X	X	X	X
	4.13-1d: Evaluation for CRHR	X				X	X			X		X	X	X	X
	4.13-1e: Cultural Resources Treatment Plan	X				X	X			X		X	X	X	X
	4.13-1f: Construction Monitoring	X				X	X			X		X	X	X	X
See Measures 4.13-2a and 4.13-2b	X			X	X	X		X	X		X	X	X	X	

**TABLE ES-2 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF MOSS LANDING AND NORTH MARINA PROJECT SITES**

Impact	Moss Landing Facilities				North Marina Facilities			Facilities Common to Both Projects					Collective Impact																
	Plant: Moss Landing Desalination Site	Intake: Moss Landing Desalination Site	Outfall: Moss Landing Desalination Site	Transmission Main North	Plant: North Marina Desalination Site	Intake: North Marina Desalination Site	Outfall: North Marina Desalination Site	Transmission Main South	Terminal Reservoir Site	Valley Greens Pump Station	Aquifer Storage and Recovery Facilities	Monterey Pipeline	MOSS LANDING PROJECT	NORTH MARINA PROJECT															
Cultural Resources	<b>4.13-2:</b> Unanticipated Archaeological Discoveries May Be Damaged or Destroyed During Project Construction														SM	-	-	SM	SM	SM	-	SM	SM	SM	SM	SM	SM		
	<i>EIR Mitigation Measures</i>																												
	4.13-2a: Training and Reporting														X			X	X	X		X	X	X	X	X	X	X	
	4.13-2b: Human Remains														X			X	X	X		X	X	X	X	X	X	X	X
Energy	<b>4.14-1:</b> Construction of the project could result in the substantial consumption of energy such that existing supplies would be constrained and could result in the wasteful use of energy resources that are not renewable.														SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>																												
	4.14-1: Implement Measure 4.8-1.														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>4.14-2:</b> Operation of the project could result in the substantial consumption of energy such that existing supplies would be constrained.														LTS	LTS	LTS	SM	SM	SM	SM	SM	SM	SM	SM	SM	LTS	SM	
	<i>EIR Mitigation Measures</i>																												
4.14-2: Implement an Energy Conservation Plan																	X	X	X	X	X	X	X	X	X		X		

SM – Significant Impact, can be Mitigated

SU – Significant Impact, Unavoidable

LTS – Less-than-significant Impact

B – Beneficial Impact

- – No Impact

X – Mitigation in place

**TABLE ES-3  
IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (Including SRDF Expansion)			
<b>6.1-1:</b> Project construction activities could cause erosion and increase stormwater runoff resulting in an adverse water quality impact.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.1-1: Additional Erosion Control Measures and Monitoring Program	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.1-2:</b> Excavation during construction could require dewatering of shallow groundwater. The water discharge, if contaminated, could adversely affect surface water.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.1-2: Extracted Groundwater Measures	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.1-3:</b> The product water generated at the desalination facilities would be used as potable water that would be compliant with the drinking water standards.	-	-	LTS	-	-	-	-	-	-	-	-	-	-	LTS	LTS
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.1-4:</b> The project discharge from the desalination facility could degrade the marine water quality in Monterey Bay.	-	-	SM	-	-	-	-	-	-	SM	-	-	-	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.1-4c: Develop an Aeration System			X							X				X	X
6.1-4: Test Discharge for Organic Contaminants			X							X				X	X
<b>6.1-5:</b> The proposed project would add impervious surfaces that could alter the drainage pattern and increase storm runoff that could exceed the storm drainage system. The increased runoff flow could cause downstream erosion, siltation, and/or flooding.	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS



**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II					OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (Including SRDF Expansion)				
<i>EIR Mitigation Measures</i>																
None required.																
<b>6.1-6:</b> Operation of the SRDF in winter, which could alter the flows in Salinas River, could affect the hydrology of the river bank.	-	-	-	-	-	-	-	-	-	-	-	-	-	LTS	LTS	
<i>EIR Mitigation Measures</i>																
None required.																
<b>6.1-7:</b> Portions of the proposed project would be located within a 100-year flood hazard area and could impede or redirect flood flows.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>																
None required.																
<b>6.1-8:</b> The proposed project facilities could expose people or structures to risk from flooding due to a tsunami.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>																
4.1-9: Tsunami Run-up Study																
<b>6.1-9:</b> The proposed project facilities could be subject to flooding due to the sea level rise from global warming.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>																
None required.																
<b>6.1-10:</b> The proposed project could expose people or structures to risk from flooding resulting from failure of a dam or levee.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
None required.																

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (including SRDF Expansion)			
Surface Water Resources	<b>6.1-11:</b> The Regional Project would result in use of recycled water over a larger agricultural area. The recycled water applied to the irrigated lands would infiltrate through the subsurface levels affecting surface and groundwater quality.	-	-	-	-	-	-	-	-	-	-	-	LTS	-	LTS
	<i>EIR Mitigation Measures</i>														
	None required.														
	<b>6.1-12:</b> Expansion in recycled water use under the Regional Project would reduce the discharge of treated wastewater to Monterey Bay.	-	-	B	-	-	-	-	-	B	-	-	B	-	B
	<i>EIR Mitigation Measures</i>														
	None required.														
	<b>6.1-13:</b> The Regional Project would involve blending of the stored recycled water with other supplies prior to distribution, which could affect water quality.	-	-	-	-	-	-	-	-	-	-	SU	LTS	-	SU
<i>EIR Mitigation Measures</i>															
None required.															
Groundwater Resources	<b>6.2-1:</b> Projects under the Regional Project may violate water quality standards or waste discharge requirements.	-	LTS	-	-	-	-	SM	SM	LTS	LTS	LTS	LTS	SM	SM
	<i>EIR Mitigation Measures</i>														
	See Measure 4.2-1							X	X					X	X
<b>6.2-2:</b> The Regional Projects would increase groundwater storage of Carmel River water or desalinated water and would increase groundwater storage, water levels, and available water in the SGB and SVGB.	-	-	-	-	-	-	-	B	-	-	B	B	B	B	B

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (Including SRDF Expansion)	OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
Groundwater Resources	<i>EIR Mitigation Measures</i>													
	None required.													
	6.2-3: Groundwater extraction for desalination water supply could lower groundwater levels and damage neighboring water supply wells within the vicinity of the proposed seawater intake wells.													
	-	LTS	-	-	-	-	-	-	LTS	-	-	-	LTS	LTS
	<i>EIR Mitigation Measures</i>													
	None required.													
	6.2-4: Groundwater extraction for desalination water supply could deplete or decrease groundwater supplies/resources within the SVGB, export groundwater from the SVGB, or could change groundwater storage and water levels throughout the Pressure Subarea.													
	-	-	-	-	-	-	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Marine Biological Resources	<i>EIR Mitigation Measures</i>													
	None required.													
	6.2-5: The proposed desalination plant water supply wells may be completed within a portion of the 180-Foot Aquifer in an area where well installation and groundwater extraction are prohibited.													
	-	LTS	-	-	-	-	-	-	LTS	-	-	-	LTS	LTS
	<i>EIR Mitigation Measures</i>													
	None required.													
6.3-1: The project discharge from the Regional desalination facility could result in degradation of marine habitat and species.														
-	-	SM	-	-	-	-	-	SM	-	-	-	SM	SM	
<i>EIR Mitigation Measures</i>														
See Mitigation Measure 4.1-4c														
			X					X				X	X	
See Mitigation Measure 6.1-4														
			X					X				X	X	
Measures 6.3-1: Conduct Periodic Sampling of Organisms														
			X					X				X	X	

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (including SRDF Expansion)			
<b>6.4-1:</b> Construction and operation of the new facilities associated with the Regional Project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.4-1	X	X		X	X			X	X	X	X	X	X	X	
See Mitigation Measure 4.4-2								X					X		
<b>6.4-2:</b> Construction and operation of the new facilities associated with the Regional Project may adversely affect riparian habitat or other sensitive natural community identified in local or regional plans, policies regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	LTS	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	-	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.4-2		X		X	X	X	X	X	X	X	X		X	X	
<b>6.4-3:</b> Construction and operation of the new facilities associated with the Regional Project may adversely affect federally protected wetlands as defined by Section 404 of the Clean Water Act.	LTS	SM	-	LTS	LTS	LTS	LTS	LTS	SM	LTS	-	-	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.4-3		X							X				X	X	
<b>6.4-4:</b> Construction and operation of the new facilities associated with the Regional Project could adversely affect the movement of native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (Including SRDF Expansion)			
<b>6.4-5:</b> Construction and operation of the new facilities associated with the Regional Project could conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.4-5	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.4-6:</b> Operation of the Regional Project would alter Salinas River flows and may thus indirectly affect federally threatened steelhead and other special-status aquatic species.	-	-	-	SM	-	-	-	-	-	-	-	-	-	SM	SM
<i>EIR Mitigation Measures</i>															
Measure 6.4-6: Formal Consultation with National Marine Fisheries Service				X										X	X
<b>6.4-7:</b> The Regional Project may adversely affect south-central California coast steelhead and Pacific lampreys as a result of construction activities associated with the proposed expansion of the Salinas River Diversion Facility (SRDF).	-	-	-	-	-	-	-	-	-	-	-	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
6.4-7: Avoid or Minimize Impacts to Special-Status Fish Species												X	X	X	X
<b>6.5-1:</b> Large earthquakes would be expected to damage the proposed facilities, impairing and/or disrupting their intended operations if not engineered to withstand such ground shaking.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.5-1	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.5-2:</b> Proposed pipelines and facilities could incur damage as a result of underlying soil properties (high shrink-swell potential, and corrosivity).	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
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<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.5-2	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.5-3:</b> Continuing coastal erosion could expose sub-surface components of the project which may result in these structures being damaged or destroyed within the project lifetime rendering delivery systems inoperable.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.5-4:</b> Potential injury and/or damage resulting from landslides including earthquake induced landslides.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.5-4	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.5-5:</b> Potential facility damage resulting from a major earthquake in areas susceptible to liquefaction.	SM	SM	-	SM	SM	SM	SM	LTS	SU	LTS	SM	SU	SM	SU	SU
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.5-1	X	X		X	X	X	X				X		X		
<b>6.6-1:</b> Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.6-1a	X	X		X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.6-1b	X	X		X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.6-1c	X	X		X	X	X	X	X	X	X	X	X	X	X	X

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

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See Mitigation Measure 4.6-1d	X	X		X	X	X	X	X	X	X	X	X	X	X	
See Mitigation Measure 4.6-1e	X	X		X	X	X	X	X	X	X	X	X	X	X	
<b>6.6-2:</b> Potential for accidental release of hazardous materials from construction activities.	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.6-3:</b> Handling and Use of Hazardous Materials within ¼-mile of a school during construction.	-	LTS	-	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.6-4:</b> Increased risk of wildland fires during construction in high fire hazard areas.	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.6-5:</b> Potential for accidental release of chemicals or petroleum products.	LTS	-	-	LTS	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.6-6:</b> Handling of hazardous materials within ¼-mile of a school.	-	-	-	-	LTS	-	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

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<b>6.7-1:</b> Short-term increases in vehicle trips by construction workers and construction vehicles on area roadways.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-1	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.7-2:</b> Reduction in the number of, or the available width of, travel lanes on roads where pipeline construction would occur, resulting in short-term traffic delays for vehicles traveling past the construction zones.	-	SM	-	-	SM	SM	SM	-	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-1		X			X	X	X		X	X	X	X	X	X	X
See Mitigation Measure 4.7-2		X			X	X	X		X	X	X	X	X	X	X
<b>6.7-3:</b> Demand for parking spaces to accommodate construction worker vehicles.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-1	X	X		X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.7-3	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.7-4:</b> Potential traffic safety hazards for vehicles, bicyclists, and pedestrians on public roadways.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-1	X	X		X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.7-4	X	X		X	X	X	X	X	X	X	X	X	X	X	X



**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
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<b>6.7-5:</b> Access disruption to adjacent land uses and streets for both general traffic and emergency vehicles.	-	SM	-	-	SM	-	SM	-	SM	SM	SM	SM	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-1		X			X		X		X	X	X	X	X	X	
See Mitigation Measure 4.7-5		X			X		X		X	X	X	X	X	X	
<b>6.7-6:</b> Disruptions to transit and railroad service on pipeline alignment routes.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-1	X	X		X	X	X	X	X	X	X	X	X	X	X	
See Mitigation Measure 4.7-6	X	X		X	X	X	X	X	X	X	X	X	X	X	
<b>6.7-7:</b> Increased wear-and-tear on the designated haul routes used by construction vehicles.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.7-7	X	X		X	X	X	X	X	X	X	X	X	X	X	
<b>6.7-8:</b> Long-Term Project Operations and Maintenance.	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.8-1:</b> Regional Project construction activities would generate emissions of criteria pollutants, including fugitive dust and equipment exhaust particulate matter.	SM	SU	-	SU	SM	SM	SM	SU	SU	SU	SU	SU	SU	SU	
<i>EIR Mitigation Measures</i>															
See Measures 4.8-1a through 4.8-1d	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
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<b>6.8-2:</b> Regional Project operations would result in emissions, including diesel particulates, from testing and emergency use of standby generators, as well as from material haul trips and employee trips related to inspections and maintenance.	LTS	LTS	-	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.8-3:</b> Construction activities associated with Phase 1 and Phase 2 of the Regional Project would generate a cumulatively considerable net increase of PM <sub>10</sub> and long-term operations associated with Phase 2 of the Regional Project would result in a cumulatively considerable net increase in ozone precursors.	SU	SU	-	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU
<i>EIR Mitigation Measures</i>															
See Measures 4.8-1a through 4.8-1d.	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>6.8-4:</b> Construction activities associated with the Regional Project would generate emissions of diesel particulate matter (DPM), potentially exposing local sensitive receptors to pollutant concentrations.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>															
<b>6.8-5:</b> Conflict with the State goal of reducing greenhouse gas emissions in California to 1990 levels by 2020, as set forth by AB 32, California Global Warming Solutions Act of 2006.	SU	SU	-	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU
<i>EIR Mitigation Measures</i>															
See Measure 4.8-1c	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Measure 4.8-5a	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Measure 4.8-5b	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
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<b>6.9-1:</b> Construction activity would violate standards established in the local general plans or noise ordinances, and/or would adversely affect nearby sensitive receptors.	SM	SM	-	SM	SM	LTS	SU	SU	SM	SM	SM	SM	SU	SM	
<i>EIR Mitigation Measures</i>															
Measure 6.9-1: Distance from Residences During Nighttime Construction Work	X	X			X				X		X	X	X	X	
See Mitigation Measure 4.9-1a	X	X		X	X		X	X	X	X	X	X	X	X	
See Mitigation Measure 4.9-1b	X	X		X	X		X	X	X	X	X	X	X	X	
See Mitigation Measure 4.9-1c	X	X		X	X		X	X	X	X	X	X	X	X	
See Mitigation Measure 4.9-1d	X	X		X	X		X	X	X	X	X	X	X	X	
See Mitigation Measure 4.9-1e	X				X		X	X	X	X	X	X	X	X	
<b>6.9-2:</b> Operation of the water treatment plants and other conveyance facilities would potentially increase existing noise levels, which could exceed noise level standards and/or result in nuisance impacts.	SM	LTS	-	SM	LTS	LTS	SM	SM	SM	SM	SM	SM	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.9-2	X			X			X	X	X	X	X	X	X	X	
<b>6.9-3:</b> Short-term construction would result in temporary vibration impacts on nearby sensitive receptors and structures.	LTS	LTS	LTS	SM	LTS	LTS	LTS	SM	SM	SM	SM	SM	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.9-1b				X				X	X	X	X	X	X	X	
See Mitigation Measure 4.9-1d				X				X	X	X	X	X	X	X	
6.9-3: Trenchless Technology and Construction Vibration Mitigation Plan				X				X	X	X	X	X	X	X	

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

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<b>6.10-1:</b> Components of the Phase 1 Project and Phase 2 Project may permanently divide or temporarily disrupt an established community.	SM	LTS	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measures 4.10-1a	X			X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measures 4.10-1b	X			X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measures 4.10-1c	X			X	X	X	X	X	X	X	X	X	X	X	X
<b>6.10-2:</b> Components of the proposed project may conflict with applicable land use plans, policies, or regulations of an agencies with jurisdiction over the project, including, but not limited to general plans, specific plans, local coastal plans, or zoning ordinances adopted for the purpose of avoiding of mitigating an environmental effect.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>															
None Required.															
<b>6.10-3:</b> Implementation of the proposed project could result in the permanent removal of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance from agricultural operation, or involve other changes that could result in conversion of farmland to nonagricultural use as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use.	SM	-	LTS	SM	LTS	LTS	LTS	LTS	SM	LTS	LTS	LTS	SM	SM	
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.10-3	X			X					X				X	X	
6.10-3: Identification and Avoidance of Prime Agricultural Lands	X								X				X	X	

**TABLE ES-3 (Continued)**  
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<b>Land Use, Recreation and Agriculture</b>	<b>6.10-4:</b> Project facilities could conflict with agricultural zoning or Williamson Act contracts.	SM	SM	-	-	-	-	-	-	SM	-	-	-	SM	SM
	<i>EIR Mitigation Measures</i>														
	See Mitigation Measure 6.10-3	X	X							X				X	X
	<b>6.10-5:</b> The proposed project could potentially increase the use of existing parks or recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
	<i>EIR Mitigation Measures</i>														
	None Required.														
	<b>6.10-6:</b> The project could potentially include recreational facilities or require construction or expansion of recreational facilities that might have an adverse physical effect on the environment.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>EIR Mitigation Measures</i>															
None required.															
<b>Public Services and Utilities</b>	<b>6.11-1:</b> Potential damage to or interference with existing public utilities.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	See Mitigation Measure 4.11-1a	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.11-1b	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.11-1c	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.11-1d	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-1e	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

**TABLE ES-3 (Continued)**  
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See Mitigation Measure 4.11-1f	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-1g	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-1h	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-1i	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>6.11-2:</b> Potential short-term increase in demand for police, fire, or emergency services.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.11-2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>6.11-3:</b> Potential adverse effects on solid waste landfill capacity and/or failure to achieve state-mandated solid waste diversion rates.	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.11-3a	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-3b	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-3c															
<b>6.11-4:</b> Potential adverse effects on wastewater treatment facilities.	SM	SM	SM	SM	-	-	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.11-4a	X	X	X	X			X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.11-4b	X	X	X	X			X	X	X	X	X	X	X	X	X

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (Including SRDF Expansion)			
<b>6.12-1:</b> Construction associated with proposed pipelines and facilities could temporarily degrade the existing visual character of a site or surroundings.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
<i>EIR Mitigation Measures</i>															
None required.															
<b>6.12-2:</b> Permanent facilities could have an adverse effect on scenic vistas, damage scenic resources, or degrade the existing visual character or quality of the site and its surroundings.	LTS	SM	LTS	LTS	LTS	SM	LTS	LTS	SM	LTS	LTS	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.12-2a		X							X	X		X			
See Mitigation Measure 4.12-2b		X							X	X		X			
See Mitigation Measure 4.12-2c		X							X	X		X			
<b>6.12-3:</b> Exterior lighting associated with proposed facilities would create new sources of light and glare in the surrounding areas.	SM	-	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.12-3a	X			X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.12-3b	X			X	X	X	X	X	X	X	X	X	X	X	X
<b>6.13-1:</b> Project Construction Has the Potential to Affect Known Archaeological Resources	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
<i>EIR Mitigation Measures</i>															
See Mitigation Measure 4.13-1a	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.13-1b	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.13-1c	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See Mitigation Measure 4.13-1d	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**TABLE ES-3 (Continued)**  
**IMPACT AND MITIGATION SUMMARY FOR FACILITY CONSTRUCTION AND OPERATION OF PHASE 1 AND PHASE 2 OF THE REGIONAL PROJECT**

Impact	Regional Project Phase I									Regional Project Phase II				OVERALL PHASE I PROJECT	OVERALL PHASE II PROJECT
	Regional Desalination Facility (North Marina)	5 Vertical Intake Wells	Regional Desalination Plant Outfall (MRWPCA)	Surface Water Delivery to Urban Users (Surface Water Treatment Plant)	Treated Water Storage and Conveyance (Transmission Main South and Seaside Carmel Valley Conveyance and Storage Facilities)	Terminal Reservoir Site	Aquifer Storage and Recovery Facilities	Seaside Basin ASR Expansion I	Regional Desalination Expansion (Including 5 Brackish Wells and MRWPCA Outfall)	Seaside Basin ASR Expansion II	Seaside Groundwater Replenishment	CSIP Expansion (Including SRDF Expansion)			
<b>Cultural Resources</b>	See Mitigation Measure 4.13-1e	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.13-1f	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.13-2a	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.13-2b	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>6.13-2:</b> Unanticipated Archaeological Discoveries May Be Damaged or Destroyed During Project Construction	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	See Mitigation Measure 4.13-2a	X	X		X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 4.13-2b	X	X		X	X	X	X	X	X	X	X	X	X	X
<b>Energy</b>	<b>6.14-1:</b> Construction of the Phase 1 and Phase 2 Regional Projects could result in the substantial consumption of energy such that existing supplies would be constrained and could result in the wasteful use of energy resources that are not renewable.	SM	SM	-	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
	<i>EIR Mitigation Measures</i>														
	See Mitigation Measure 6.8-1c	X	X		X	X	X	X	X	X	X	X	X	X	X
	See Mitigation Measure 6.8-1d	X	X		X	X	X	X	X	X	X	X	X	X	X
	<b>6.14-2:</b> Operation of the Phase 1 and Phase 2 Regional Projects would increase long-term consumption of electricity at the project facilities, which could result in the wasteful use of energy resources that are not renewable.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
	<i>EIR Mitigation Measures</i>														
None Required.															

SM – Significant Impact, can be Mitigated  
 SU – Significant Impact, Unavoidable

LTS – Less-than-significant Impact  
 B – Beneficial Impact

- – No Impact  
 X – Mitigation in place