## MITIGATION MONITORING AND REPORTING PROGRAM FOR THE SECOND SAN DIEGO AQUEDUCT MOOSA CANYON CROSSING EROSION CONTROL PROJECT (SCH No. 2017201019) BONSALL, SAN DIEGO COUNTY, CALIFORNIA

## Prepared for:

San Diego County Water Authority 4677 Overland Avenue San Diego, California 92123

## Prepared by:

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The California Environmental Quality Act (CEQA) requires that public agencies adopting a Mitigated Negative Declaration (MND) take affirmative steps to determine that approved mitigation measures and project design features are implemented subsequent to project approval. The lead or responsible agency must adopt a monitoring and reporting program for the mitigation measures incorporated into a project or included as conditions of approval. The program must be designed to ensure compliance with the MND during project implementation (Public Resources Code, Section 20181.6; CEQA Guidelines, Section 15074(d)).

This Mitigation Monitoring and Reporting Program (MMRP) will be used by the San Diego County Water Authority (Water Authority) to ensure compliance with adopted mitigation measures and project design features associated with the implementation of the proposed Second San Diego Aqueduct Moosa Canyon Crossing Erosion Control Project (project). The Water Authority, as Lead Agency pursuant to CEQA, will ensure that all design features and mitigation measures identified for the project are carried out in accordance with the adopted MMRP.

This MMRP consists of a checklist (Table 1) that identifies the project design features and mitigation measures, organized by environmental impact category discussed in the MND. The table identifies the mitigation monitoring and reporting requirements, including the timing of verification (prior to, during, or after construction) and the party responsible for implementing the measure. Space is provided for sign-off following completion/implementation of the design feature or mitigation measure. The responsible parties listed in Table 1 include the Water Authority, the Contractor who will be hired by the Water Authority to construct the project, and the Environmental Surveyor who will be assigned by the Water Authority to monitor compliance before and during project construction. These references in the table indicate the party responsible for implementing the respective measures, but the Water Authority will ultimately be responsible for verifying compliance with each measure listed in the table.

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## Table 1. Mitigation Monitoring and Reporting Program Second San Diego Aqueduct Moosa Canyon Crossing Erosion Control Project, Bonsall, California

		Timins	g of Verific	cation		Comp	leted			Spec	Verified	
<b>Design Feature</b>									Resp.	Section	in	
or	Design Feature or	Pre	During	Post					Team	or Dwg	Contract	
Mitigation No.	Mitigation Measure	Const	Const	Const	Responsible Party	Initials	Date	Comments	Member	No.	by	Comments
	VISUAL QUALITY											
Design Feature 1	All areas cleared of vegetation for the temporary construction			X	Contractor							
	and staging areas will be revegetated at the completion of the											
	project.											
Design Feature 2	Any lighting used will be of the lowest illumination		X		Contractor							
	necessary to ensure safety of all construction personnel and											
	security of the site, and will be shielded and directed away from adjacent habitat areas.											
	from adjacent nabitat areas.											
AIR QUALITY										1		
Design Feature 1	All clearing and grading will be carried out with dust control		X		Contractor							
	measures adequate to prevent creation of a nuisance to											
5 . 5	persons or property.				G							
Design Feature 2	Points of public street access will be cleaned daily of any		X		Contractor							
D E 2	"track-out" materials.		X		C	-						
Design Feature 3			Λ		Contractor							
Design Feature 4	construction sites will be swept daily.  All unpaved access roads, parking areas, and staging areas at		X		Contractor							
Design reature 4	construction sites will be watered three times daily or treated		Λ		Contractor							
	with non-toxic soil stabilizers.											
Design Feature 5	Dirt storage piles will be stabilized by chemical binders,		X		Contractor							
8	tarps, fencing, or other erosion control measures.											
Design Feature 6	Soil stabilizers will be applied to inactive construction areas		X		Contractor							
	(disturbed areas inactive for 10 days or more).											
Design Feature 7	Traffic speeds on unpaved roads will be limited to 20 miles		X		Contractor							
	per hour maximum.											
Design Feature 8	All trucks hauling soil, sand, and other loose materials will be		X		Contractor							
	covered or required to maintain at least 2 feet of freeboard.											
BIOLOGICAL I	RESOURCES											
Mitigation	If construction activities must commence during the		X		Water Authority							
Measure BIO-1	riparian avian breeding season (March 15 through											
	September 15), minimize impacts by conducting nest				Environmental							
	surveys within 300 feet of all proposed activities. If active				Surveyor							
	nests are encountered, no Covered Activities shall be											
	implemented within a minimum distance of 100 feet of the											
	nest. A greater setback (up to 300 feet) may be required, as											
	determined by the Environmental Surveyor, based on the											
	site-specific considerations, phase of the nesting cycle, and species or other biological considerations.											
	species or other biological considerations.									j		

		Timin	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
Mitigation	If construction activities must commence during the upland	Const	X	Collst	Water Authority	IIIIIII	Date	Comments	Wichibei	110.	by	Comments
Measure BIO-2	avian breeding season (February 15 through August 15), the Water Authority shall minimize impacts through conducting nest surveys within 300 feet of all proposed activities. If active nests are encountered, no Covered Activities shall be implemented within a minimum distance of 100 feet of the nest. A greater setback (up to 300 feet) may be required, as determined by the Environmental Surveyor, based on the site-specific considerations, phase of the nesting cycle, and species or other biological considerations.		A		Environmental Surveyor							
Mitigation Measure BIO-3	The Water Authority shall prohibit direct take of coastal California gnatcatcher individuals and destruction of coastal California gnatcatcher nests within an active territory.		X		Water Authority  Environmental Surveyor							
Mitigation Measure BIO-4	For temporary impacts to occupied coastal California gnatcatcher habitat, Water Authority shall ensure the work site will be returned to preexisting contours, where feasible, and revegetated with appropriate locally native species.			X	Contractor Water Authority							
					Environmental Surveyor							
Mitigation Measure BIO-5	The Water Authority shall minimize and manage effects from introduced ant species that may exclude the termite prey base during restoration efforts. All nursery stock plants will be checked for nonnative ants before installation at restoration sites. Nonnative ants that penetrate native habitats appear to be partially supported by artificial irrigation associated with landscaping. Therefore, runoff from mitigation sites in to native habitat would be minimized and managed.			X	Contractor  Water Authority  Environmental Surveyor							
Mitigation Measure BIO-6	If a northern red diamond rattlesnake is observed in the construction area, the snake shall be moved by the Environmental Surveyor to the closest safe, suitable habitat in the area.		X		Environmental Surveyor							
Mitigation Measure BIO-7	The Water Authority shall acquire the appropriate types and amounts of off-site mitigation credits at Water Authority Habitat Management Areas, other Wildlife Agencyapproved bank, or through the acquisition/protection of a qualifying habitat area that augments the NCCP/HCP Preserve Areas or reserves in another approved conservation plan. Based on impacts and mitigation assumptions available for this MND, off-site mitigation will include 1.137 acres of southern cottonwood willow riparian forest or ecologically equivalent Tier I habitat, 0.045 acre of southern willow scrub or ecologically equivalent Tier II	X	X	X	Water Authority							

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature	D. t. Fut	D.	D :	D4					Resp.	Section	in	
or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Team Member	No.	Contract by	Comments
Whitigation 140.	habitat or greater ecological value, 0.112 acre of mulefat	Const	Collst	Collst	Responsible 1 arty	Illitials	Date	Comments	Wichibei	110.	Dy	Comments
	scrub or ecologically equivalent Tier II habitat, 0.005 acre											
	of ecologically equivalent Tier III (riparian/wetlands)											
	habitat or greater ecological value, and 0.001 acre of											
	nonnative grassland or ecologically equivalent Tier III											
	uplands habitat or greater ecological value. Mitigation											
	amounts will be subject to discussion with the Army Corps											
NGCDAIGD	and CDFW during the project's permitting process.	37			T							
NCCP/HCP	Conduct pre-activity surveys within suitable habitat to ensure	X			Environmental							
General Condition 1	that Covered Species are adequately addressed by impact avoidance, minimization, and mitigation. Surveys must be				Surveyor							
Condition 1	conducted by an Environmental Surveyor during the											
	appropriate field conditions for detection prior to any											
	proposed impacts in the Plan Area.											
NCCP/HCP	Avoid and minimize impacts to occupied Covered Species	X			Water Authority							
General	habitat or potential migration and/or dispersal corridors for											
Condition 2	all new facilities and O&M Activities of existing facilities											
	through project design considerations.											
NCCP/HCP	Fence and/or flag Covered Species populations and sensitive	X			Water Authority							
General	habitat in or adjacent to work areas. Where necessary, install											
Condition 3	signage to prohibit access and/or flag areas being restored or				Environmental							
NGCD/HCD	protected for their biological value.		37		Surveyor							
NCCP/HCP General	Avoid driving or parking on sensitive and/or occupied habitat by keeping vehicles on roads and in designated staging areas.		X		Contractor							
Condition 4	by keeping venicles on roads and in designated staging areas.				Environmental							
Condition 4					Surveyor							
NCCP/HCP	Deter unauthorized activities (such as trampling and off-road		X		Contractor							
General	vehicle use) and perform litter abatement, including proper											
Condition 5	disposal of illegally dumped materials, as part of routine				Environmental							
	patrol of access roads.				Surveyor							
NCCP/HCP	Monitor encroachment of non-native and invasive species		X		Environmental							
General	into Covered Species populations and perform weed				Surveyor							
Condition 6	abatement as needed to improve the habitat.	37	37		G							
NCCP/HCP General	Stabilize work areas to control erosion or sedimentation problems when working near Covered Species populations	X	X		Contractor							
Condition 7	within the Plan Area. Populations within or adjacent to work											
Condition /	areas would be protected from vehicular traffic, excessive											
	foot traffic, or other activities that result in soil surface											
	disturbance.											
NCCP/HCP	Control dust when working near Covered Species		X		Contractor							
General	populations and/or habitat in accordance with applicable											
Condition 8	regulations.				Environmental							
NCCD/IICD	And design to the second secon		7.7		Surveyor							
NCCP/HCP	All identified populations of Covered Species within rights-		X		Environmental							
General Condition 9	of-ways must be managed to control edge effects to the maximum extent possible.				Surveyor							
Condition 9	maximum extent possible.											

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
<b>Design Feature</b>						•			Resp.	Section	in	
or	Design Feature or	Pre	During	Post					Team		Contract	
Mitigation No.	Mitigation Measure	Const	Const	Const	Responsible Party	Initials	Date	Comments	Member	No.	by	Comments
NCCP/HCP	Any restoration and monitoring program prepared as a			X	Water Authority							
General	component of the mitigation plan for impacts to a Covered											
Condition 10	Species shall include, but not be limited to, species											
	propagation ratios, restoration site selection and assessment,											
	site preparation, implementation strategies, weed control											
	procedures, required management and monitoring in											
	perpetuity, funding commitment, and reporting procedures.											
	The program would be prepared in advance of project											
NCCP/HCP	impacts and approved by the Wildlife Agencies.		X	X	Contractor	-				-		
General	Any planting stock used shall be inspected by an Environmental Surveyor to ensure that it is free of pest		Λ	Λ	Contractor							
Condition 11	species that may invade natural areas, including, but not				Environmental							
Condition 11	limited to, Argentine ants ( <i>Iridomyrmex humii</i> ), fire ants				Surveyor							
	(Solenopsis invicta), and other pests. Any planting stock that				Surveyor							
	is infested would not be allowed within restoration areas or											
	within 300 feet of native areas unless documentation is											
	provided to the Wildlife Agencies that these pests already											
	occur in the native areas around the project site. The stock											
	would be quarantined, treated, or disposed of according to											
	best management principles by qualified experts in a manner											
	that precludes invasions into native habitat. Runoff from											
	mitigation sites in native habitat would be minimized and											
	managed.											
NCCP/HCP	To the maximum extent possible, conduct Covered Activities		X		Contractor							
General	occurring within wetland habitats during the dry season when											
Condition 12	flows are at their lowest or nonexistent to minimize impacts				Environmental							
	to aquatic species and/or habitats.				Surveyor							
NCCP/HCP	Reseed temporary impact areas with an appropriate native			X	Contractor							
General	seed mix and allow for natural recolonization of the area by											
Condition 13	adjacent populations.	37		37	TTT . A .1 *.							
NCCP/HCP	For new facilities adjacent to native habitat, minimize	X		X	Water Authority							
General Condition 14	ornamental landscaping or irrigation not associated with				C							
NCCP/HCP	native habitat restoration.  Collection of covered plant and wildlife species by Water		X		Contractor	-				-		
General	Authority personnel and contractors is prohibited.		Λ.		Water Authority			1				
Condition 15	Authority personner and contractors is promotied.				Contractor							
Condition 13					Contractor							
					Environmental			1				
					Surveyor							
NCCP/HCP	Maintain and manage dispersal/movement corridors within	X			Water Authority			1				
General	the Plan Area that contribute to long-term population											
Condition 16	viability.											

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature	D. t. F. d.	D	D :	D					Resp.	Section or Dwg	in	
or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Team Member	No.	Contract by	Comments
NCCP/HCP	The use of outdoor lighting within or adjacent to potential	0 0 1 1 0 0	X	0 0 2 2 2 2	Contractor					- 100	~ 3	
General	Covered Species habitat will be discouraged. If lighting must											
Condition 17	be used for reasons of safety and security, light sources				Environmental							
	would be shielded away from habitat and only low pressure				Surveyor							
	sodium lighting would be used.											
NCCP/HCP	The Water Authority will identify an Environmental	X			Water Authority							
Minimization	Surveyor for the project to oversee pre-project											
Measure 1	evaluations/needs of Covered Activities and work with the											
	project engineer and contractors to ensure implementation											
	compliance of Covered Activities with Plan commitments.											
NCCP/HCP	If the Environmental Surveyor discovers that the Water		X		Environmental							
Minimization	Authority is out of compliance with the permits associated				Surveyor							
Measure 2	with this Plan [NCCP/HCP], he/she will report the non-											
	compliance to the Water Authority within one working day											
	and to the Wildlife Agencies within five working days so that											
	the Water Authority and Wildlife Agencies can determine											
	how to put the Plan back into compliance.											
NCCP/HCP	Before any clearing and/or construction activities are	X			Environmental							
Minimization	performed in habitat areas that may support Covered Species,				Surveyor							
Measure 3	the Environmental Surveyor will review the site, identify any											
	sensitive plant and animal species, and identify requirements											
	pursuant to the Plan [NCCP/HCP] for impact avoidance and											
	minimization that are not already adequately addressed in the											
	project specific MMRP. A standard Pre-Activity Survey											
	Form (PSF) will be prepared for each project and submitted to the Water Authority for review and tracking purposes.											
NCCP/HCP	The Environmental Surveyor will determine the extent of	X			Environmental							
Minimization	potential Covered Species habitat and will flag the sensitive	Λ			Surveyor							
Measure 4	resources to be avoided. If a Covered Species is present, the				Surveyor							
Wicasure 4	Environmental Surveyor will refer to Appendix B of the											
	NCCP/HCP for species-specific conservation measures. In											
	the case of unavoidable impacts to a Covered Species, the											
	Environmental Surveyor will determine the extent of impact,											
	the appropriate mitigation measures, and recommend to the											
	project engineer additional measures to minimize impacts in											
	accordance with Appendix B of the NCCP/HCP.											
NCCP/HCP	The Environmental Surveyor will work with the project	X			Environmental							
Minimization	engineer to identify and mark areas appropriate for staging				Surveyor							
Measure 5	and temporary equipment storage, placement of heavy											
	machinery, as well as vehicle turn around and access, that				Water Authority							
	will result in the least amount of impact to sensitive											
	vegetation and/or Covered Species. The Environmental											
	Surveyor will verify that all areas specified on the plans to be											
	avoided are marked with flagging in the field prior to											
	construction start.											

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
<b>Design Feature</b>	2.5								Resp.	Section	in	
or	Design Feature or	Pre	During	Post			<b>.</b>		Team	0	Contract	~
Mitigation No.	Mitigation Measure	Const	Const	Const		Initials	Date	Comments	Member	No.	by	Comments
NCCP/HCP	The Environmental Surveyor will attend pre-construction	X			Environmental							
Minimization	meetings for projects in sensitive areas. The Environmental				Surveyor							
Measure 6	Surveyor will provide brief presentations to field staff											
	(includes construction contractors), as needed, to familiarize field personnel with the natural resources to be protected and											
	avoid on project sites and outline environmental expectations.											
	The Environmental Surveyor will also be available to answer											
	questions and address any last-minute construction changes.											
NCCP/HCP	The Environmental Surveyor will be present during clearing,		X		Environmental							
Minimization	topsoil salvage, and construction activities located within		21		Surveyor							
Measure 7	sensitive habitat. The frequency and duration of required				Burveyor							
ivicusure /	monitoring will be specified in the PSF that is completed by											
	the Environmental Surveyor and submitted to the Water											
	Authority on a project-by-project basis prior to the start of											
	construction.											
NCCP/HCP	The Environmental Surveyor will advise the construction		X		Environmental							
Minimization	manager during construction to ensure compliance with all				Surveyor							
Measure 8	avoidance, minimization, and mitigation measures.											
NCCP/HCP	The Environmental Surveyor will conduct (and document)	X			Environmental							
Minimization	monitoring as required by the PSF. At the completion of the				Surveyor							
Measure 9	Covered Activity, the Environmental Surveyor will prepare a											
	brief report to verify compliance with the avoidance and											
	minimization recommendations in the PSF or Project MMRP.											
	This report will include documentation that the flagged areas											
	were avoided and that minimization measures were properly											
	implemented. The Environmental Surveyor will be											
	responsible for the identification and monitoring of any Covered Species that are found on the project site prior to											
	and during construction activities. Monitoring activities will											
	be in accordance with the species-specific measures (see											
	Appendix B of the NCCP/HCP).											
NCCP/HCP	If any previously unidentified Covered Species or otherwise		X		Environmental					<b>†</b>		
Minimization	sensitive species, nests, dens, or burrows are located on a		71		Surveyor							
Measure 10	project site during construction activities, the Environmental											
	Surveyor will provide guidance, through the construction											
1	manager, as to how best to minimize or avoid impacting the											
	resource(s).											
NCCP/HCP	The Environmental Surveyor will be on-call (via phone) to		X		Environmental							
Minimization	respond within 24 hours for potential emergency deployment				Surveyor							
Measure 11	to assess and monitor potentially critical biological issues.											
NCCP/HCP	If the Environmental Surveyor determines that the Covered		X		Environmental							
Minimization	Activity is out of compliance with the requirements of the				Surveyor							
Measure 12	Plan, the Environmental Surveyor will report it to the Water											
	Authority. The Water Authority will be responsible for				Water Authority							
	bringing the project back into compliance and determine the											
	appropriate remedial action, if necessary, through		<u> </u>									

		Timing	g of Verifi	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	coordination with the Wildlife Agencies.											
NCCP/HCP Minimization Measure 13	The Environmental Surveyor or construction manager will be responsible for ensuring the removal of all habitat flagging from the construction site at completion of work.			X	Contractor  Environmental Surveyor							
NCCP/HCP Minimization Measure 14	If included in the PSF, the Environmental Surveyor will direct the relocation of Covered Species that can be moved from harm's way in coordination with the species-specific Conditions of Coverage in Appendix B of the NCCP/HCP (in non-emergency situations) with notification to the Wildlife Agencies.		X		Environmental Surveyor							
NCCP/HCP Minimization Measure 15	The PSF will include a review of the avoidance, minimization, and mitigation requirements stated in this MMRP and will confirm the measures are still applicable and, if necessary, identify additional requirements based on the general measures outlined in this section and the species-specific conditions in Appendix B of the NCCP/HCP.	X			Water Authority Environmental Surveyor							
NCCP/HCP Minimization Measure 16	The pre-activity survey will be valid for 30 days unless the project is scheduled to begin during the avian breeding season, in which case the nesting bird clearance must be conducted within five days of project implementation. If ground disturbance activities have not commenced within 30 days after the survey is completed, the Environmental Surveyor will conduct a verification survey to confirm that biological conditions have not significantly changed that would alter the specified avoidance, minimization and mitigation commitments prior to construction.	X			Environmental Surveyor							
NCCP/HCP Minimization Measure 17	Field personnel working within sensitive habitat areas, including both Water Authority employees and contractors, will participate in an education training program at the start of each project. The program will be conducted on-site by an Environmental Surveyor under the direction of the Water Authority. The training will include: an overview of Covered Species identification and the legal protections afforded to each species; a brief discussion of their biology; habitat requirements; status under ESA and CESA; conservation measures being taken by the project for the protection of the Covered Species and their habitats under this Plan; and penalties for non-compliance. The training program will also educate field personnel in the identification of invasive exotic species that may be removed, as well as desirable seeded and planted species, to ensure that native species are not affected by invasive species control. A fact sheet conveying this information will also be available to all personnel working in the project area. The Water Authority, either directly or through the services of the Environmental Surveyor, will be	X			Water Authority Contractor Environmental Surveyor							

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
white atton 140.	responsible for the education and training for new field	Collst	Const	Collst	Responsible 1 arty	IIIIIII	Date	Comments	Member	110.	Бу	Comments
	personnel coming on-site after the start of a project.											
NCCP/HCP	Contractors or other project personnel will not collect plants		X		Contractor							
Minimization	or wildlife, unless specifically authorized and directed by the											
Measure 18	Environmental Surveyor. Only qualified and appropriately											
	authorized personnel will handle or collect plants or wildlife											
NGGD WGD	as required by species-specific measures.											
NCCP/HCP Minimization	Field personnel will not intentionally harm or harass wildlife or damage nests, burrows, rock outcrops, or other habitat		X		Contractor							
Measure 19	components.											
NCCP/HCP	Drivers on unpaved roads in native habitats will not exceed a		X		Contractor							
Minimization	speed of 20 miles per hour in order to avoid injury to animals		71		Contractor							
Measure 20	and minimize dust generation.											
NCCP/HCP	Impacts to adjacent native vegetation that would be		X		Contractor							
Minimization	significantly affected by excessive fugitive dust will be											
Measure 21	avoided and minimized through watering of access roads											
	(except in areas with vernal pools) or other appropriate											
	measures, such as reducing the number or speed of vehicles											
	or adding inert materials that reduce dust.											
NCCP/HCP	Vehicles will not park in areas where catalytic converters		X		Contractor							
Minimization	may ignite vegetation. Construction vehicles will be equipped											
Measure 22	with shovels and fire extinguishers in order to reduce the risk of wildfires.											
NCCP/HCP	Littering will be strictly prohibited. All trash will be		X		Contractor							
Minimization	deposited in secured, closed containers or hauled out daily by		Λ		Contractor							
Measure 23	field personnel.											
NCCP/HCP	No pets will be allowed on any construction site.		X		Contractor							
Minimization												
Measure 24												
NCCP/HCP	No firearms or other weapons will be allowed on any		X		Contractor							
Minimization	construction site except as carried by governmental law											
Measure 25	enforcement, or as authorized in writing by Water Authority											
NCCP/HCP	staff. Field personnel will be prohibited from pushing or dumping		X		Ct							
Minimization	soil and brush into sensitive habitats.		Λ		Contractor							
Measure 26	son and orden into sensitive napitats.											
NCCP/HCP	All vehicles, tools, and machinery will be restricted to access		X		Contractor							
Minimization	roads, approved staging areas, or within designated				Contractor							
Measure 27	construction zones.											
NCCP/HCP	If any field personnel identify a previously unnoticed		X		Contractor							
Minimization	Covered Species on a construction site, work activities will											
Measure 28	cease in order to immediately notify the Water Authority's				Environmental							
	construction manager, project engineer, and the				Surveyor							
	Environmental Surveyor. In conjunction with Water											
	Authority environmental staff, the Environmental Surveyor											
	will determine what actions would be taken to avoid or											

		Timing	g of Verifi	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	minimize impacts to the species according to the species- specific conditions outlined in Appendix B of the NCCP/HCP.									2.00	~,	
NCCP/HCP Minimization Measure 29	Field personnel will notify the project engineer/Environmental Surveyor of any sick, injured, or dead wildlife found on site.		X		Contractor							
NCCP/HCP Minimization Measure 30	Parking or driving underneath oak trees, except in established traffic areas, will not be allowed in order to protect root structures.		X		Contractor							
NCCP/HCP Minimization	Construction footprints will be delineated in the construction documents. In addition, if the construction footprint is located	X			Water Authority							
Measure 31	within or near sensitive habitat, the project footprint will be fenced or continuously flagged with streamers or a boundary rope barrier to ensure that habitat is not removed beyond the limits of work. These barriers will be established prior to any grading, grubbing, or clearing, and will be monitored by the Environmental Surveyor.				Contractor Environmental Surveyor							
NCCP/HCP Minimization Measure 32	Prior to the start of ground disturbing activities, the Water Authority or their consultants will prepare a Storm Water Pollution Prevention Plan (SWPPP), or an equivalent document, to reduce or eliminate pollutants during and after construction. The most current and applicable Best Management Practices (BMPs) will be implemented at all construction sites in or adjacent to native habitat in accordance with the project specifications. In addition to the approved manual, BMPs listed in the most recent National Pollutant Discharge Elimination System (NPDES) General Permit and the BMP Fact Sheet located in State Water Resources Control Board (SWRCB) General Permit for Small Linear Underground/Overhead Projects will apply. The fact sheet is attached as an Appendix G and the SWRCB or RWQCB will be contacted for the latest requirements.	Х			Water Authority Contractor							
NCCP/HCP Minimization Measure 33	Refuse and trash will be regularly removed from activity sites and disposed of in a lawful manner. Timing of refuse and trash removal will be determined by the Environmental Surveyor and comply with the project specifications that require debris to be removed as work is completed. Petroleum products, including gasoline, diesel, and hydraulic fluid, will be used during construction in accordance with all federal, state, and local laws, regulations, and permitting requirements. In the event that hazardous materials are encountered or generated during construction, contractors certified by the responsible regulatory agency will conduct all recovery operations and dispose of hazardous waste in accordance with existing regulations and required permits. As required, petroleum products, trash, and other materials will		X		Contractor Environmental Surveyor							

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	be taken to a disposal facility authorized to accept such materials.										·	
NCCP/HCP Adjacency Guideline 1	Prepare site-specific fire management plans. Include local fire department contacts and guidelines for pre-fire prevention activities, fire suppression, and post-fire restoration.	X			Contractor							
NCCP/HCP Adjacency Guideline 2	Dispose of all exotic plant materials (specifically castorbean [Ricinus communis], tree tobacco [Nicotiana glauca], and other species as determined by the Water Authority/Environmental Survey) that are removed from the project site at a landfill or on-site at a secure, designated location to avoid the spread of nonnative plant species through seeds or propagules. If exotic vegetation is processed on site, it shall be chipped and staged in a designated mulch site, and all exotic plant material compost piles will be periodically spot-treated with herbicide to kill any resprouting plants. All exotic plant materials will be covered during transport. Exotic plant material will be removed offsite to a green waste recycling facility, or otherwise legally disposed of, as necessary.		X		Contractor Environmental Surveyor							
NCCP/HCP Adjacency Guideline 3	Ensure that all ornamental landscaping and native habitat restoration materials do not contain invasive ant or other species by inspecting all container stock before it enters Preserve Areas.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, and River Work Condition 1	California Department Fish and Wildlife employees are authorized to conduct on-site inspections relevant to San Diego County Water Authority NCCP/HCP Section 6.6.1.1, upon reasonable notice.		X		Water Authority							
NCCP/HCP Appendix I: Lake, Stream, and River Work Condition 2	Silty/turbid water shall not be discharged into the stream. Such water shall be settled, filtered, or otherwise treated prior to discharge. The Contractor's ability to minimize turbidity/siltation shall be the subject of pre-construction planning and design feature implementation.	X			Contractor Water Authority							
NCCP/HCP Appendix I: Lake, Stream, and River Work Condition 3	Preparation shall be made so that runoff from steep, erodible surfaces will be diverted into stable areas with little erosion potential. Frequent water checks shall be placed on dirt roads, cat tracks, or other work trails to control erosion.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, and River Work Condition 4	Water containing mud, silt, or other pollutants from equipment washing or other activities shall not be allowed to enter a lake or flowing stream or placed in locations that may be subjected to high storm flows.		X		Contractor							
NCCP/HCP Appendix I:	Silt settling basins shall be located away from the stream or lake to prevent discolored, silt-bearing water from reaching		X		Contractor							

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature	D 1 D 1	,							Resp.	Section	in	
or Mitigation No	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Dognongible Doute	Initials	Date	Commenta	Team Member	or Dwg No.	Contract	Commonta
Mitigation No. Lake, Stream,	the stream or lake during any flow regime.	Collst	Collst	Collst	Responsible Party	Illiuais	Date	Comments	Member	INO.	by	Comments
and River Work	the stream of take during any now regime.											
Condition 5												
NCCP/HCP	Notwithstanding the use of silt catchment basins, upon		X		Contractor							
Appendix I:	California Department Fish and Wildlife (Department)				Communication							
Lake, Stream,	determination that turbidity/siltation levels resulting from				Water Authority							
and River Work	project related activities constitute a significant threat to				,							
Condition 6	aquatic life, activities associated with the turbidity/siltation,											
	shall be halted until effective Department approved control											
	devices are installed or abatement procedures are initiated.											
NCCP/HCP	Precautions to minimize turbidity/siltation shall be taken into	X			Water Authority							
Appendix I:	account during project planning and shall be installed prior to											
Lake, Stream,	construction. This may require that the work site be isolated				Contractor							
and River Work	and that water be diverted around the work area by means of											
Condition 7	a barrier, temporary culvert, new channel, or other means											
	approved by California Department Fish and Wildlife											
	(Department). Precautions may also include placement of silt											
	fencing, straw bales, sand bags, and/or the construction of silt											
	catchment basins so that silt or other deleterious materials are											
	not allowed to pass to downstream reaches. The method used											
	to prevent siltation shall be monitored and cleaned/repaired											
	weekly, or more frequently if warranted by local conditions. Department shall provide any determinations or approvals in											
	writing within 14 days of receiving from the Water Authority											
	or its agents a written request which includes a plan sheet or											
	diagram indicating how the work site will be isolated.											
NCCP/HCP	No equipment shall be operated in ponded or flowing areas		X		Contractor							
Appendix I:	except as otherwise addressed in Water Authority project's		Λ		Contractor							
Lake, Stream,	Notification of Lake or Streambed Alteration application,											
and River Work	contract specifications, and any applicable regulatory											
Condition 8	permits.											
NCCP/HCP	Rock, gravel, and/or other materials shall not be imported to,		X		Contractor				İ	İ		
Appendix I:	taken from, or moved within the bed or banks of the stream											
Lake, Stream,	except as otherwise specifically identified in the project's											
and River Work	Notification of Lake or Streambed Alteration application.											
Condition 9												
NCCP/HCP	Temporary fills shall be constructed of nonerodible materials		X		Contractor			1				
Appendix I:	and shall be removed immediately upon work completion.											
Lake, Stream,												
and River Work												
Condition 10	TC		7.7		G 1 1			<del> </del>		-		
NCCP/HCP	If operations require moving equipment across a flowing		X		Contractor							
Appendix I:	stream, such operations shall be conducted without							1				
Lake, Stream, and River Work	substantially increasing stream turbidity. Where repeated crossings could result in a substantial increase in stream											
Condition 11	turbidly, the Water Authority shall install a permanent or											
Condidon 11	turbiary, the water Authority shall histan a permanent of		1			l		I .	I .			

		Timin	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	temporary bridge, culvert, or rock-fill crossing as approved											
NCCP/HCP	by the Water Authority Project Engineer.  Structures and associated materials not designed to withstand		X		Contractor							
Appendix I:	high seasonal flows shall be removed to areas above the high		Λ		Contractor							
Lake, Stream,	water mark before such flows occur.											
and River Work	water mark before such nows occur.											
Condition 12												
NCCP/HCP	Spoil sites shall not be located within a stream/lake, or where		X		Contractor							
Appendix I:	spoil shall be washed back into a stream/lake, or where it will											
Lake, Stream,	cover aquatic or riparian vegetation, unless the site is											
and River Work	specifically identified in the project's Notification of Lake or											
Condition 13	Streambed Alteration application.											
NCCP/HCP	Staging/storage areas for equipment and materials shall be		X		Contractor							
Appendix I:	located outside of the stream, unless the area is specifically											
Lake, Stream, and River Work	identified in the project's Notification of Lake or Streambed											
Condition 14	Alteration application.											
NCCP/HCP	Access to the work site shall be via existing roads and access		X		Water Authority							
Appendix I:	ramps when legally available to the Water Authority and its		71		water radiority							
Lake, Stream,	contractors for such use.				Contractor							
and River Work												
Condition 15												
NCCP/HCP	No equipment maintenance shall be done within or near any		X		Contractor							
Appendix I:	stream channel where petroleum products or other pollutants											
Lake, Stream,	from the equipment may enter these areas under any flow.											
and River Work												
Condition 16 NCCP/HCP	No debris, soil, silt, sand, bark, slash, sawdust, rubbish,		X		Contractor							
Appendix I:	cement or concrete or washings thereof, oil or petroleum		Λ		Contractor							
Lake, Stream,	products or other organic or earthen material from any											
and River Work	construction, or associated activity of whatever nature shall											
Condition 17	be allowed to enter into or placed where it may be washed by											
	rainfall or runoff into waters of the State. When operations											
	are completed, any excess materials or debris shall be											
	removed from the work area. No rubbish shall be deposited											
Macharan	within 150 feet of the high water mark of any stream or lake.				G.							
NCCP/HCP	The Water Authority and its contractors, subcontractors, and		X		Contractor							
Appendix I: Lake, Stream,	employees shall comply with all litter and pollution laws. It is the responsibility of the Water Authority to ensure				Water Authority							
and River Work	compliance.				water Authority							
Condition 18	compnute.											
NCCP/HCP	Any equipment or vehicles driven and/or operated within or		X		Contractor							
Appendix I:	adjacent to the stream/lake shall be checked and maintained											
Lake, Stream,	daily to prevent leaks of materials that if introduced to water											
and River Work	could be deleterious to aquatic life.											
Condition 19												

		Timing	of Verific	ation		Comp	leted			Spec	Verified	
Design Feature									Resp.	Section	in	
or	Design Feature or	Pre	During	Post	D 111 D 4		<b>D</b> (	<b>a</b> .	Team		Contract	<b>a</b> .
Mitigation No.	Mitigation Measure	Const	Const	Const	Responsible Party	Initials	Date	Comments	Member	No.	by	Comments
NCCP/HCP	Stationary equipment such as motors, pumps, generators, and		X		Contractor							
Appendix I:	welders located within or adjacent to the stream/lake shall be positioned over drip pans or confined within berms capable											
Lake, Stream, and River Work												
Condition 20	of containing any spills.											
NCCP/HCP	The clean-up of all spills shall begin immediately. California		X		Contractor							
Appendix I:	Department Fish and Wildlife shall be notified immediately		Λ		Contractor							
Lake, Stream,	by the Water Authority of any spills that affect aquatic				Water Authority							
and River Work	habitat, and shall be consulted regarding clean-up procedures.				water Authority							
Condition 21	mattat, and shan be consulted regarding crean up procedures.											
NCCP/HCP	Any materials placed in seasonally dry portions of a stream		X		Contractor							
Appendix I:	or lake that could be washed downstream or could be		71		Contractor							
Lake, Stream,	deleterious to aquatic life shall be removed from the project											
and River Work	site prior to inundation by high flows.											
Condition 22	F											
NCCP/HCP	Installation of bridges, culverts, or other structures shall be		X		Water Authority							
Appendix I:	such that water flow is not impaired. Bottoms of temporary											
Lake, Stream,	culverts shall be placed at or below stream channel grade,				Contractor							
and River Work	and bottoms of permanent culverts shall be placed below											
Condition 23	stream channel grade. Excavation of the streambed and banks											
	shall be limited to the extent necessary, as determined by the											
	Water Authority Project Engineer, to install bottoms of											
	culverts below stream grade. Temporary culverts placed on											
	existing streambed grade shall be done so with minimal											
	disturbance.											
NCCP/HCP	All in-stream structures shall be designed so that no sudden	X			Water Authority							
Appendix I:	change in stream velocity shall occur above, below, or in the				_							
Lake, Stream,	structure. If a sudden change in stream velocities occurs upon				Contractor							
and River Work	installation of the structure, the structure shall be removed											
Condition 24	immediately.		**		G							
NCCP/HCP	If any wildlife is encountered in the stream or lake zone		X		Contractor							
Appendix I: Lake, Stream,	during the course of construction, said wildlife shall be allowed to leave the construction area unharmed.											
and River Work	allowed to leave the construction area unnarmed.											
Condition 25												
PMPP Condition	The Water Authority and Contractor must allow		X		Water Authority							
1 Wil 1 Condition	representatives from U.S. Army Corps of Engineer to inspect		Λ		water Authority							
	the authorized activity at any time deemed necessary to				Contractor							
	ensure that it is being or has been accomplished with the				Communicion							
	terms and conditions of permit No. SPL-2012-00106-PJB.											
PMPP Condition	The Water Authority and Contractor shall follow, adhere to		X		Water Authority							
2	and implement authorized eligible activities as described in											
	the Department of Army permit.				Contractor							
PMPP Condition	Prior to initiating construction in waters of the U.S.,	X			Water Authority							
3	including wetlands, the Water Authority shall submit to the											
	Corps Regulatory Division a complete set of final detailed											
	Corps Regulatory Division a complete set of final detailed											

		Timing	of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or	Design Feature or	Pre	During	Post					Resp. Team	Section or Dwg	in Contract	
Mitigation No.	Mitigation Measure	Const	Const		Responsible Party	Initials	Date	Comments	Member	No.	by	Comments
	grading/construction plans showing all work and structures in waters of the U.S., including wetlands for a proposed eligible activity. All plans shall be submitted on paper no larger than 11x17 inches. No work in waters of the U.S., including wetlands is authorized until the Corps Regulatory Division receives and approves (via email or letter) the final detailed grading/construction plans.											
PMPP Condition 4	The Water Authority shall ensure that the project is built in accordance with the final detailed grading/construction plans submitted to and approved by the Corps Regulatory Division. Adverse impacts to waters of the U.S., including wetlands beyond the Corps-approved construction footprint are not authorized. Such impacts could result in permit suspension and revocation, administrative, civil or criminal penalties, and/or substantial, additional, compensatory mitigation requirements		X		Water Authority							
PMPP Condition 5	The Contractor shall clearly mark the limits of the workspace with plastic snow fencing, silt fencing, or flagging to ensure mechanized equipment does not enter waters of the U.S., including wetlands beyond the Corps-approved construction footprint as shown on plans, maps, drawings or figures submitted to the Corps Regulatory Division for each eligible activity.	X	X		Contractor							
PMPP Condition 6	The Water Authority shall staff one or more qualified biologists/environmental monitors on site during project activities in the waters of the U.S., including wetlands to ensure compliance with all requirements of this permit and ensure that adverse impacts do not occur outside of the permitted project area.		X		Water Authority							
PMPP Condition 7	The Water Authority shall report any non-compliance incident with the permit to the Corps Regulatory Division (760-602-4829) within one day of its occurrence. The Permittee/qualified biological/environmental monitor shall submit a written report summarizing the noncompliance with the permit and any measures implemented to rectify the incident to the Corps Regulatory Division within seven days of notification to the Corps Regulatory Office.		X		Water Authority Environmental Surveyor							
PMPP Condition 8	Temporary stockpiling is not authorized within waters of the U.S., including wetlands.		X		Contractor							
PMPP Condition 9	The Water Authority shall ensure that all vehicle maintenance, staging, storage, laydown areas and dispensing of fuel occurs outside of Corps jurisdiction as per Corps approved project site plans. The Permittee shall ensure that these designated areas are located in such a manner as to		X		Water Authority Environmental Surveyor							

		Timin	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	prevent any runoff from entering waters of the U.S.,											
	including wetlands and special aquatic sites.											
PMPP Condition	8 ,		X		Contractor							
10	work activities from flowing stream segments using temporary cofferdams and restore the work area to pre-											
	project conditions after work is complete as per Corp											
	approved site plans. Temporary cofferdams shall be											
	constructed of materials that shall not introduce sediment to											
	the stream channel and shall be completely removed											
	following completion of the work activity.											
PMPP Condition	The Contractor shall discharge only clean construction		X		Contractor							
11	materials permitted for use in waters of the U.S., including wetlands. The Contractor shall ensure no debris, soil, silt,											
	sand, sawdust, rubbish, cement or concrete washings thereof,											
	oil or petroleum products, from construction shall be allowed											
	to enter into or placed where it may be washed by rainfall or											
	runoff into waters of the U.S., including wetlands. Upon											
	completion of the eligible activity authorized herein, any and											
	all excess material or debris shall be completely removed											
	from the waters of the U.S., including wetlands.											
PMPP Condition	Upon completion of work activities, the Contractor shall			X	Contractor							
12	remove all excess excavated material from waters of the U.S.,											
	including wetlands to an upland storage site designated on											
	project plans outside of the 100-year floodplain or an otherwise Corps-approved upland disposal site.											
CULTURAL RE	CSOURCES											
Design Feature 1	In the event that buried cultural resources are encountered		X		Water Authority							
	during any phase of construction, project activities in the											
	vicinity of the resources will be temporarily halted, and the				Environmental							
	Water Authority will consult a qualified archaeologist to				Surveyor							
	assess the significance of the resource and to provide proper management recommendations.											
Design Feature 2	In the event of an unexpected discovery of human remains		X		Environmental							
Design readure 2	during any phase of construction, project activities in the		71		Surveyor							
	vicinity of the discovery will be temporarily halted and the				Sarveyor							
	San Diego County Coroner contacted. In the event that the											
	remains are determined to be of Native American origin, the											
	Most Likely Descendent, as identified by the Native											
	American Heritage Commission, will be contacted to							]				
DI (DD C 1111	determine proper treatment and disposition of the remains.		77		777 . A .1							
PMPP Condition	If the Water Authority or its Contractor discovers any		X		Water Authority			]				
1	previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, the				Contractor			]				
	Water Authority must immediately notify the Army Corps'				Contractor			]				
	Carlsbad field office of what the Water Authority or its							]				
	Carisona field office of what the state fluthoffty of its	l	l	<u> </u>	I.		l	l	L	1	L	

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	Contractor have found. The Army Corps will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.											
GEOLOGY ANI	DSOILS											
Design Feature 1	Project construction activities will comply with applicable requirements stated in the State Water Resources Control Board Construction General Permit. The Water Authority will implement a Storm Water Pollution Prevention Plan (SWPPP) (including associated sedimentation BMPs) for the construction activities that are specific for project type, location, and characteristics. Typical control measures that may be implemented as part of the project SWPPP include:  a) Preparation and implementation of a "weather triggered" action plan during the rainy season to provide enhanced erosion or sediment control measures prior to predicted storm events (i.e., 40% or greater chance of rain).  b) Use of erosion control/stabilizing measures in appropriate areas (including disturbed areas and graded slopes with grades of 3:1 [horizontal to vertical] or steeper), such as geotextiles, mats, fiber rolls, soil binders, or temporary hydroseeding.  c) Use of sediment controls to protect the site perimeter and prevent off-site sediment transport, including measures such as silt fences, fiber rolls, gravel bags, temporary sediment basins, check dams, street sweeping, energy dissipaters, stabilizing construction access points (e.g., with temporary gravel or pavement) and sediment stockpiles (e.g., with silt fences and tarps), and use of properly fitted covers for sediment transport vehicles.  d) Storage of BMP materials in applicable on-site areas to provide "standby" capacity adequate to provide complete protection of exposed areas and prevent off-site sediment transport.  e) Provision of training by certified personnel (i.e., either a Qualified SWPPP Developer [QSD] or Qualified SWPPP Practitioner [QSP]) for the personnel responsible for BMP installation and maintenance.	X	X		Contractor							
L	f) Implementation of permanent native vegetation											

		Timing	g of Verific	cation		Comp	leted		_	Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
	restoration/planting as soon as feasible after grading or construction.											
	g) Implementation of appropriate monitoring and maintenance efforts (e.g., prior to and after storm events) to ensure proper BMP function and efficiency.											
	h) Implementation of sampling/analysis, monitoring/reporting, and post-construction management programs per NPDES requirements.											
	Implementation of additional BMPs as necessary (and required by appropriate regulatory agencies) to ensure adequate erosion and sediment control.											
Design Feature 2	Actual BMPs for the proposed project will be determined during the SWPPP development process, with such measures taking priority over the typical industry standard measures listed above.	X	X		Contractor							
HAZARDS AND	HAZARDOUS MATERIALS											
Design Feature 1	Standard BMPs will be implemented to prevent impacts to the public through the transport, use, or disposal of any hazardous materials. Standard industry measures include, but are not limited to:		X		Contractor							
	Hazardous materials used or stored on-site will be restricted to areas at least 50 feet from storm drains and watercourses.											
	All hazardous materials will be covered or kept in enclosed facilities.											
	A written inventory will be kept of all hazardous materials used or stored on-site.											
	d) To prevent discharge in the event of a spill, berms, ditches, and/or impervious liners (or other applicable methods) will be provided in material storage and vehicle/equipment storage areas to provide a containment volume of 1.5 times the volume of the stored/used materials.											
	Agency telephone numbers and a summary guide of cleanup procedures will be posted in a conspicuous location at or near the job site staging area.											

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Pre Const	During Const	Post Const	Responsible Party	Initials	Date	Comments	Resp. Team Member	Section or Dwg No.	in Contract by	Comments
Design Feature 2	Prior to authorization to proceed, the Water Authority's contractor will prepare a Fire Prevention and Response Plan. All construction crewmembers will be trained in the requirements of the plan. Fire safety information will be disseminated to construction crews during regular project safety meetings. Fire management techniques will be applied during project construction as deemed necessary and depending on the on-site vegetation and the vegetation of surrounding areas.		X		Contractor							
HYDROLOGY /	WATER QUALITY											
Design Feature 1	A SWPPP will be implemented to effectively reduce or eliminate pollutants during construction of the proposed project. The SWPPP will identify all pollutant sources, including sources of sediment, that may affect the quality of storm water discharges associated with construction activity (storm water discharges from the construction site); identify non-storm water discharges; identify structural and/or treatment control BMPs that are to be implemented in accordance with a time schedule to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the construction site during construction; and develop a maintenance schedule for permanent or post-construction BMPs that will "to the maximum extent possible" reduce or eliminate pollutants after construction is completed. Detailed BMPs to prevent impacts to water quality will be included in the SWPPP.	X	X		Contractor							
NOISE												
Design Feature 1	The contractor will comply with the noise thresholds the Water Authority has established for this project. Noise levels associated with construction activities are not to exceed an average sound level of 75 decibels over an 8-hour period, between 7 a.m. and 7 p.m., Monday through Saturday, as measured at a residential property boundary.		X		Contractor							
Design Feature 2	All noise-producing project equipment and vehicles using internal combustion engines will be equipped with mufflers; air-inlet silencers, where appropriate; and any other shrouds, shields, or noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed package equipment (e.g., arc-welders, air compressors) will be equipped with shrouds and noise control features that are readily available for that type of equipment.		X		Contractor							
Design Feature 3	All mobile or fixed noise-producing equipment used on the project that is regulated for noise output by a local, state, or federal agency will comply with such regulation while in the course of project activity.		X		Contractor							

		Timing	g of Verific	cation		Comp	leted			Spec	Verified	
Design Feature or	Design Feature or	Pre	During	Post					Resp. Team	Section or Dwg	in Contract	
Mitigation No.	Mitigation Measure	Const	Const		Responsible Party	Initials	Date	Comments		No.	by	Comments
Design Feature 4	Electrically powered equipment will be used instead of		X		Contractor						·	
	pneumatic or internal combustion-powered equipment, where feasible.											
Design Feature 5	Construction site and access road speed limits will be		X		Contractor							
	established and enforced during the construction period; speeds on unpaved roads will not exceed 20 miles per hour.											
	The use of noise-producing signals, including horns, whistles, alarms, and bells, will be for safety warning purposes only.		X		Contractor							
Design Feature 7	No project-related public address or music system will be audible at any adjacent noise-sensitive receptor.		X		Contractor							
TRAFFIC												
Design Feature 1	To minimize disruption to communities from construction traffic, the Water Authority's contractor will prepare and implement a traffic control plan. The plan will be prepared in accordance with the latest edition of the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (FHWA 2009), as modified by the most recent California supplement (FHWA 2012). The traffic control plan will be provided to the County of San Diego Department of Public Works, Transportation Division, for review and issuance of a Traffic Control Permit.	X	X		Contractor							
Design Feature 2	The project will not unreasonably restrict access to any private property.		X		Contractor							
UTILITIES ANI	O SERVICE SYSTEMS											
Design Feature 1	The Water Authority will notify and coordinate with all other utility providers that own easements, ROWs, or facilities within or adjacent to the area affected by the proposed project. Any need to connect with or relocate utilities will be presented to the appropriate utility provider prior to commencement of construction.	X	X		Water Authority							

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