

**CARPINTERIA VALLEY WATER DISTRICT  
EL CARRO WELL REPLACEMENT  
AND CENTRAL ZONE IMPROVEMENT PROJECT  
MITIGATION MONITORING PROGRAM**

Carpinteria Valley Water District  
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**Purpose**

Section 21081.6 of the Public Resources Code requires all state and local agencies to establish monitoring or reporting programs whenever approval of a project relies upon a mitigated negative declaration or an environmental impact report (EIR). The monitoring or reporting program must ensure implementation of the measures being imposed to mitigate or avoid the significant adverse environmental impacts identified in the mitigated negative declaration or EIR. As such, a mitigation monitoring program is required to be adopted by the Carpinteria Valley Water District (CVWD) for the El Carro Well Replacement and Central Zone Improvements Project.

**Project Description**

The Carpinteria Valley Water District is proposing the development and operation of a water well and associated filtration system. The well would replace a previously existing well located about 120 feet from the proposed well which failed in 2004 due to sanding-in. One new segment and four replacement segments of pipeline would also be constructed as part of the project.

**Mitigation Monitoring Checklist**

The following table/checklist lists those environmental mitigation measures recommended in the Initial Study for the El Carro Well Replacement and Central Zone Improvements Project that are incorporated into the project description. The table also indicates when and how often the mitigation measures shall be monitored, as well as who is responsible for monitoring. The checklist serves as a reporting mechanism to ensure compliance with all mitigation measures. The date of project compliance with each measure, initials of the person responsible for monitoring and any comments of the monitor shall be noted on the checklist. The table/checklist constitutes the CVWD's mitigation monitoring program and will be placed in the project file. The mitigation monitoring program is a public document and is available for review with the exception of any proprietary information covered by an appropriate claim of confidentiality or otherwise found to qualify for an exemption from the Public Records Act (Government Code Section 6250 et. seq.).

**Implementation and Monitoring Process**

The CVWD has adopted the mitigation measures as identified in the program as part of the project description for the El Carro Well Replacement and Central Zone Improvements Project. As the lead agency for the project, it is responsible for ensuring that these measures are implemented.



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<b>Aesthetics</b>							
<b>AES1</b> CVWD shall retain a certified arborist to advise the District and construction staff on methods to minimize damage to trees and shrubs at the El Carro and Franklin Creek Parks. The arborist shall visit the sites and consult with the District, prior to project implementation to provide recommendations to protect tree and shrub health. Avoidance shall be the preferred method of minimizing impact to trees and shrubs where feasible and not causing new or substantially more severe impacts in other environmental issue areas (e.g., traffic). Tree	Prior to and during construction.	Once prior to construction and as needed during construction.	CVWD/ consulting arborist	Maintain a written record of communication with arborist.			

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<p>protection strategies may include: 1) installation of root protection zone barricades; 2) invigoration of trees prior to construction by use of a light fertilizer and water; and 3) pre-cut roots at limits of construction to prevent tearing by equipment; and 4) provide aeration of the root zone. The arborist shall also be onsite during any elements of the project that will result in impacts to trees and shrubs to ensure that construction techniques and tree protection measures implemented follow the arborist's recommendations and to provide onsite advice, if determined necessary by</p>							

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the consulting arborist. Pruning of any trees shall be in accordance with industry standards (International Society of Arboriculture or ANZI 133.1							
<b>AES2</b> CVWD will coordinate with the City of Carpinteria Parks and Recreation Department to develop a revegetation plan to offset damage to and or removal of trees (not currently anticipated), shrubs and other plantings within the El Carro and Franklin Creek Parks. At a minimum, any vegetation that is permanently destroyed will be replaced on a 1:1 basis (based upon a cross sectional area for trees, meaning that the trunk	Prior to construction for coordination and after construction for revegetation.	Once prior to construction and once after revegetation.	CVWD	CVWD to maintain a written record of communication with Parks and Recreation Department and photo-document revegetation.			

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cross-sectional area is estimated for trees to be removed and an equivalent number of trees must be planted to provide the same cross-sectional area).							
<b>Air Quality</b>							
<b>AQ1</b> During construction, water trucks will be used to keep all unpaved areas of vehicle movement damp enough to prevent dust from leaving the site.	During construction.	As needed.	CVWD/ designated monitor	Periodic field check.			
<b>AQ2</b> The amount of disturbed area will be minimized, and vehicle speeds on unpaved roads will be reduced to 15 mph or below.	During construction.	As needed.	CVWD/ designated monitor	Periodic field check.			
<b>AQ3</b> Gravel pads will be used as needed to prevent tracking of mud	During construction.	As needed.	CVWD/ designated	Periodic field check.			

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onto public roads.			monitor				
<b>AQ4</b> Stockpiled earth material will be watered as needed to minimize dust generation.	During construction.	As needed.	CVWD/ designated monitor	Periodic field check.			
<b>AQ5</b> Trucks transporting earth materials will be tarped or maintain a minimum 2 foot freeboard.	During construction.	As needed.	CVWD/ designated monitor	Periodic field check.			
<b>AQ6</b> The District will designate a person to monitor dust generation, with the power to increase watering or implement other measures to reduce off-site transport of construction-related dust. The dust monitor will be available during non-work hours to respond to dust-related complaints. The name and phone number will be provided to the	During construction.	As needed.	CVWD/ designated monitor	Periodic field check.			

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SBCAPCD.							
<b>Cultural Resources</b>							
<p><b>CUL1</b> A professional archaeologist and Chumash representative shall be retained to monitor all project related earth disturbances within pipeline Segment 5 north of Highway 101. The following elements are also a part of this measure.</p> <p>a. At the commencement of project construction, the archaeological monitor shall give all workers associated with earth-disturbing procedures an orientation regarding the probability of exposing cultural resources and directions as to what steps are to be</p>	During construction of pipe segment 5 n/of 101.	Periodically during pipe segment 5 construction n/of 101 phase of construction.	CVWD/ contracted archaeologist	District will retain archaeologist's report in the project file.			



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<p>taken if a find is encountered.</p> <p>b. The archaeologist shall have the authority to temporarily halt or redirect project construction in the event that potentially significant cultural resources are exposed. Based on monitoring observations and the actual extent of project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with the District.</p> <p>c. A monitoring report shall be prepared upon completion of construction</p>							

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and provided to the District and the CCIC.							
<b>CUL2</b> In the event that archaeological resources are exposed during construction, all earth disturbing work within the vicinity of the find must be temporarily suspended or redirected until a professional archaeologist has been retained to evaluate the nature and significance of the find. The District shall be notified immediately of any such find. After the find has been appropriately mitigated, work in the area may resume. A Chumash representative should monitor any mitigation work associated with Native American cultural	During earth disturbance.	As necessary.	CVWD/contracted archaeologist	District to retain records of any unintended finds including archaeologist's report.			

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material.							
<b>CUL3</b> If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission (NAHC). The District shall be notified immediately of the find.	During earth disturbance.	As necessary.	CVWD	CVWD General Manager to prepare brief report pertaining to incident for the file and presentation to CVWD Board as necessary			

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<b>Geology</b>							
<b>GEO1</b> The District shall retain a registered engineering geologist to prepare a geotechnical study of the project area. Seismic and geologic hazards (including but not limited to liquefaction and expansive soils along pipe Segments 3 and 5) shall be assessed and construction recommendations provided as necessary. The recommendations (e.g., design and ground preparation methods) shall be implemented by the District. Examples of measures that may be recommended include: overexcavation and recompaction of soils; use of flexible couplings on	Study prior to construction and remedial measures during construction.	Once before construction and periodically during construction.	CVWD/consulting geologist	Retain geotechnical report and periodic site visit during construction.			

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pipe joints, removal of expansive soil and replacement with non-expansive material).							
<b>Hazardous Materials</b>							
<b>HAZ1</b> The CVWD shall update its Hazardous Materials Business Plan for the El Carro Well and submit it to the Carpinteria Summerland Fire Protection District prior to reestablishment of operations at the El Carro Well site.	Prior to reestablishment of operations at the El Carro Well site.	Once	CVWD	Retain copy of HMBP.			
<b>HAZ2</b> CVWD shall develop a Contaminated Materials Management Plan (CMMP) for the El Carro Well and Central Zone Pipeline Improvement Project prior to the implementation of the project. The CMMP	Prior to the implementation of the project.	Once to ensure plan prepared and periodically during construction of the Segment 5	CVWD	Retain a copy of the CMMP.			

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shall address proper handling, temporary storage, treatment and/or disposal of petroleum hydrocarbon contaminated soil and/or groundwater encountered during the course of planned construction of the project in compliance with applicable local, state and federal regulations.		pipeline to ensure the plan is implemented as necessary.					
<b>HAZ3</b> CVWD shall ensure that only Hazardous Work Operations and Emergency Response (OSHA 29 CFR, 1910.120) (HAZWOPPER) trained personnel shall work on pipeline Segment 5 at and north of U.S. Highway 101.	During construction of pipeline segment 5.	Periodically during construction of pipeline segment 5.	CVWD/construction contractor	District to retain copy of worker Hazwopper certifications for construction personnel working on pipeline segment 5.			

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<b>HAZ4</b> The CVWD shall obtain encroachment permit(s) from the City of Carpinteria for work in City rights-of-way.	Prior to construction in roads.	Once	CVWD/contractor	CVWD to retain copy of permit.			
<b>Noise</b>							
<b>NOI1</b> As proposed by the District, construction of the well will be conducted during the summer months when school is not in session (based upon Carpinteria Unified School District schedule which is also followed by the Howard School).	During construction.	Once	CVWD/contractor	Field verification.			
<b>NOI2</b> Nearby residents/occupants of adjacent land uses to the construction sites will be given advanced written notification of construction activity scheduling and	Prior to commencement of noise producing construction activities.	Once	CVWD	Retain copy of letter sent to residents and mailing list.			

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hours of construction.							
<b>NOI3</b> As proposed by the District, temporary, portable noise barriers shall be used to shield noise-producing activities during drilling operations. The barriers will be 24 feet in height and meet Sound Transmission Class 25 criteria or above. The barriers will be used during drilling when construction activities are proposed for 24-hours per day.	During drilling operations.	Periodically during drilling operations.	CVWD	Retain correspondence, invoice, etc., pertaining to installation of sound barrier.			
<b>NOI4</b> If residents complain of inability to sleep or other loss of normal life functions during the period of nighttime construction, the District shall retain a noise monitor to measure	During drilling operations.	If complaints are received.	CVWD	District Manager prepare note to file pertaining to complaints and resolution.			



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interior noise at the residence(s) in question. Should interior noise levels be above the 45 dBA (Ldn) interior residential standard within the home, with doors and windows closed, the District shall offer to provide temporary relocation of residents during the period of night time construction activities.							
<b>NO15</b> Any stationary construction equipment will be placed within a noise reduction enclosure.	During construction.	Once	CVWD	Enclosure(s) in place.			
<b>NO16</b> All construction equipment shall be in proper operating condition and fitted with standard noise reduction features (e.g., mufflers).	During construction.	Once	CVWD	The District shall require that the contractor ensure that all equipment			

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				complies with the measure and shall require that the contractor sign a statement to this effect.			
<b>Recreation</b>							
<b>REC1</b> The District shall coordinate with the City of Carpinteria Parks and Recreation Department to determine the acceptable limits of temporary construction easements within City recreational facilities prior to project construction. Temporary fencing or other measures determined necessary to delineate the construction and staging areas and to protect the public shall be	Prior to construction for coordination and during construction to ensure appropriate construction area limits maintained.	Once prior to construction and periodically during construction.	CVWD/contractor	District to retain copy of communications with Parks and Recreation Department.			

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identified and implemented prior to construction.							
<b>Transportation</b>							
<b>T1</b> As a condition of awarding of a contract(s) for project construction, the contractor must agree to ensure that all project construction traffic (including construction worker trips, construction truck trips, etc.) avoid the U.S. 101 Northbound On/Off-ramps at Via Real/Santa Monica Roads during the a.m. peak period (7:00 a.m. -9: a.m.).	Prior to construction and periodically during construction.	Prior to issuance of contract and periodically during construction.	CVWD/contractor	Field inspection			
<b>T2</b> The District shall obtain appropriate encroachment permits from the City of Carpinteria and California	Prior to construction and periodically during	Prior to issuance of contract and periodically during	CVWD/contractor	Field inspection			

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Department of Transportation as necessary.	construction.	construction.					
<b>T3</b> The District shall coordinate with the County of Santa Barbara Metropolitan Transportation District prior to project construction with regard to the timing of the installation of pipeline Segment 3 so that alternative arrangements for the Seaside Shuttle stop at Franklin Creek Park can be implemented as necessary.	Prior to construction of pipe segments.	Once	CVWD	Retain copy of permits.			