

MITIGATION MONITORING PROGRAM

FOR

Venice Pumping Plant Dual Force Main

W.O. SZC11631 (formerly W.O. E1700500)

SCH #2003031001

Prepared By

**CITY OF LOS ANGELES
BUREAU OF ENGINEERING**

December 2007

Introduction

The California Environmental Quality Act (CEQA) requires public agencies to adopt a reporting or monitoring program for the changes to the project that have been adopted to mitigate or avoid significant effects on the environment. The program must be adopted by the public agency at the time findings are made regarding the project (Public Resources Code Section 21081.6). The State CEQA Guidelines allow public agencies to choose whether its program will monitor mitigation, report on mitigation, or both (California Code of Regulations Title 14, Chapter 3, Section 15097(c)). This mitigation monitoring program contains the elements required by CEQA for the Venice Pumping Plant Dual Force Main Sewer Project.

Project Description

The Venice Pumping Plant Dual Force Main Project for which this mitigation monitoring program has been developed consists of the design, construction and operation of a new force main sewer, 54 inches in diameter and extending about two miles from the existing VPP at 140 Hurricane Street in the community of Venice to a junction structure on the Coastal Interceptor Sewer in the community of Playa Del Rey on Vista Del Mar near Waterview Street. The new force main sewer would be used in tandem with the existing force main sewer for the purpose of fulfilling the City's objectives, purposes and needs for sewage conveyance capacity, pipeline redundancy, and maintenance.

From the existing VPP on Hurricane Street, the alignment would proceed east under the Grand Canal and along Marquesas Way, then southeasterly on Via Marina and portions of the county parking lot, then under the Marina Del Rey entrance and Ballona Creek channels to a point on the south side of Ballona Creek at Pacific Avenue. From there, the alignment continues south along Pacific Avenue and Vista Del Mar to the connection in Vista Del Mar near Waterview Street.

Construction would be by a combination of boring and cut-and-cover construction methods. Surface construction activities (construction management offices, materials staging, boring, etc.) would occur on or near the following sites:

- Venice Pumping Plant (140 Hurricane Street) and vicinity, which may include Hurricane Street between Canal Court and Grand Canal, the city-owned lots at 139 Hurricane Street and the county-owned lot at 3821 South Via Dolce.
- An insertion shaft in the intersection of Marquesas Way and Via Marina.
- A receiving shaft in the south-bound side of Via Marina about 500 feet south of Marquesas Way.
- An insertion shaft in the south-bound side of Via Marina north of Bora Bora Way.
- A receiving shaft in the north-bound side of Via Marina about 300 feet north of the entrance to Los Angeles County Marina del Rey Parking Lot 13 (4601 Via Marina).

- An insertion shaft in the south end of Los Angeles County Marina del Rey Parking Lot 13 (4601 Via Marina)
- A receiving shaft in Pacific Avenue at 62nd Avenue and vicinity, which may include adjacent portions of 62nd Avenue, Los Angeles County 62nd Avenue Parking Lot, the access road along the south side of Ballona Creek channel, and 650 E 62nd Avenue.
- An insertion shaft in Pacific Avenue at 66th Avenue.
- A receiving shaft in Pacific Avenue about 50 feet south of Convoy Street.
- An insertion shaft in Vista Del Mar at Montreal Street.
- A receiving shaft in Vista Del Mar at Sunridge St.
- Cut and cover in Vista Del Mar from Sunridge Street to about 150 south of Waterview Street. Construction activities may include adjacent portions of Dockweiler Beach, and minor portions of the “LAX Dunes” property (such as the area recently used for the North Outfall Sewer rehabilitation project).

Unless otherwise stated, the project will be designed, constructed and operated following all applicable laws, regulations, ordinances and formally adopted City standards (e.g., *Los Angeles Municipal Code* and Bureau of Engineering *Standard Plans*). Also, the analysis in this document assumes that construction will follow the uniform practices established by the Southern California Chapter of the American Public Works Association (e.g., *Standard Specifications for Public Works Construction* and the *Work Area Traffic Control Handbook*) as specifically adapted by the City of Los Angeles (e.g., The City of Los Angeles Department of Public Works *Additions and Amendments to the Standard Specifications For Public Works Construction* (AKA "The Brown Book," formerly Standard Plan S-610)).

Mitigation Measures

The mitigation measures described in the following pages are taken from the Draft Environmental Impact Report (December 20, 2005) and related documents. The measures listed according to the stages of the project at which each mitigation measure must be implemented: design, construction, and operation.

Within each project phase, the following are identified for each mitigation measure:

- (1) An “identifier” providing a nexus between the listed mitigation measure and the source document. The source document should be consulted whenever there is any question regarding the intent or implementation of the mitigation measure. In this case the source document is the Draft Environmental Impact Report dated December 20, 2005.
- (2) description of the mitigation measure,
- (3) the party who is responsible for the necessary implementing actions,
- (4) the necessary implementing vehicle,
- (5) the party who is responsible for verifying that the necessary implementing action is taken, and

(6) the primary record documenting the necessary implementing action.

The mechanisms for verifying that mitigation measures have been implemented include design drawings, construction documents intended for use by construction contractors and construction managers, field inspections, field reports, and other periodic or special reports. All records pertaining to this mitigation program will be maintained and made available for inspection by the public in accordance with the City's records management systems and policies.

DESIGN PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
Air Quality					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Biological Resources					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Circulation, Traffic and Parking					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Cultural and Paleontological Resources					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Geology, Soils and Seismicity					
GEO 1	Project improvements would be subject to earthquake ground shaking. The components of the proposed project will be designed and constructed to the seismic design requirements for ground shaking specified in the UBC for Seismic Zone 4 at a minimum.	Project Engineer	Plans & Specifications	Project Manager	Plans & Specifications
GEO 2	Liquefaction and differential seismic settlement may occur on the project. Design and construction of the proposed project will include appropriate measures, such as flexible connections that can accommodate differential settlement, compaction grouting to densify the soils, or structural anchors to secure the pipeline.	Project Engineer	Plans & Specifications	Project Manager	Plans & Specifications
GEO 4	Methane gas may be detected along the project alignments. Design and construction of the proposed project will include active or passive mitigation systems for methane gas hazards, if necessary.	Project Engineer	Plans & Specifications	Project Manager	Plans & Specifications
Hazards and Hazardous Materials					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Hydrology and Water Quality					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications

CCC = California Coastal Commission; DFG = California Dept. of Fish and Game; LADOT = City of Los Angeles Department of Transportation; LARWQCB = California Regional Water Quality Control Board Los Angeles Region; PW-Eng = Dept. of Public Works Bureau of Engineering ; PW-San = Dept. of Public Works Bureau of Sanitation; RAP-Op.s = Dept. of Recreation & Parks Operations; SCAQMD = South Coast Air Quality Management District;

DESIGN PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
Noise and Vibration					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Recreational Resources and Facilities					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications
Aesthetics					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications

CONSTRUCTION PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
Air Quality					
AQ1	To minimize NOx emissions, strategize and plan ahead to minimize the transporting of construction equipment and excessive material to and from work area.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ2	To minimize NOx emissions, optimize construction crew size and select equipment to reduce any unnecessary emissions.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ3	To minimize NOx emissions, adjust the electronic timing on the construction equipment when feasible.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ4	To minimize NOx emissions, use newer construction equipment such as equipment meeting Tier 2 emission standards when feasible.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ5	To minimize NOx emissions, minimize idling emissions from construction equipment and haul trucks by turning them off when not in use or during potential long delays (i.e., over 5 minutes).	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ6	To minimize NOx emissions, optimize the muck removal schedule	Constructor	Project Plans &	Construction	Project

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	to reduce emissions from haul trucks.		Specifications	Inspector	Acceptance or Closeout Report
AQ7	To minimize NOx emissions, use alternative fuel such as biodiesel, liquid natural gas, and propane when feasible.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ8	To minimize fugitive dust emissions, disturbed land and open storage piles that will be left inactive for several days, shall be stabilized by one, or a combination, of the following methods: (a) applying a chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of 6 months, (b) covering, or (c) watering three times per day.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ9	Soil exposed by construction activities shall be revegetated or otherwise covered so as to prevent the generation of wind-borne dust as soon as possible.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ10	To minimize fugitive dust emissions, all active unpaved demolition and construction areas shall be wetted at least three times daily during excavation and construction. The construction area shall be sufficiently dampened to control dust caused by construction and hauling and at all times provide reasonable control of dust by wind.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ11	To minimize fugitive dust emissions, during periods of high winds (i.e., greater than 15 mph) either (a) cease all clearing, earth moving and excavation activities or (b) apply water to soil not more than 15 minutes prior to moving the soil.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AQ12	To minimize fugitive dust emissions, all truck loads of imported or exported soil or debris shall be either (a) securely covered or (b) comply with vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads and be sufficiently watered to prevent excessive amount of dust.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
Biological Resources					
BIO 2	To protect foraging of the least tern when tunneling activities are to occur during the least tern nesting season (April 1 through August 31), a water quality specialist or biological monitor shall conduct surveys at tunneling locations a minimum of once daily to ensure that tunneling does not increase water turbidity. If any turbidity from the tunneling activities is discovered in least tern foraging areas, the tunneling activities shall cease until corrective measures are taken to prevent tunneling activities from causing increased turbidity.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report

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BIO 3	<p>Environmentally sensitive habitat areas shall be protected, and where feasible, enhanced. If any environmentally sensitive habitat area is disturbed, the area shall be restored to its previous condition in accordance with the applicable Land Use Plan and Local Coastal Program.</p> <p>Marine resources shall be maintained, enhanced, and where feasible, restored. If any marine resources are disturbed, the resources shall be restored to its previous condition in accordance with the applicable Land Use Plan and Local Coastal Program.</p>	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
Circulation, Traffic and Parking					
TRA 1	To coordinate with the city to ensure adequate traffic signals and controls are in place prior to and during times of construction, a construction traffic management plan shall be prepared for each construction site and submitted to the City for review and approval prior to the start of any construction work.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
TRA 2	<p>To adequately control traffic to ensure compliance with all local and state safety standards and specifications, a site-specific construction worksite traffic control plan shall be prepared for each construction site and submitted to the City for review and approval prior to the start of any construction work. This plan shall include such elements as the location of any lane closures, restricted hours during which lane closures would not be allowed, local traffic detours, protective devices and traffic controls (such as barricades, cones, flagmen, lights, warning beacons, temporary traffic signals, warning signs), access to abutting properties, and provisions to maintain emergency access through construction work areas.</p> <p>Coordinate with emergency service providers (police, fire, ambulance and paramedic services) to provide advance notice of any lane closures, construction hours and changes to local access and to identify alternative routes where appropriate.</p>	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
TRA 3	To reduce traffic congestion, fully utilize available street space to minimize lane reductions on affected streets, including elimination of onstreet parking where necessary. Implement left-turn restrictions as appropriate on re-stripped street segments to facilitate the movement of through traffic. Only eliminate travel lanes when	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report

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	absolutely necessary.				
TRA 4	To protect pedestrian and recreational traffic, provide signage indicating alternative pedestrian and bicycle access routes where existing facilities would be affected.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
TRA 5	To ensure ingress/egress to all properties adjacent to the project and surrounding areas, provide advance notice to any affected residents, businesses and property owners in the vicinity of each construction site and, where existing property access will be reduced, identify alternative means of access.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
TRA 6	To avoid impacts to public transportation, coordinate with public transit providers (MTA, LADOT Commuter Express, Culver City Bus) to provide advance notice of any lane closures, construction hours and, where necessary, to identify sites for temporary bus stops within a reasonable walking distance of any displaced bus stops.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
Cultural and Paleontological Resources					
CR 1	To avoid impacts to areas where cultural resources are known to exist, an archaeologist qualified to recognize and assess both prehistoric and historical resources shall monitor all excavation.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
CR 2	To avoid impacts to areas where cultural resources are known to exist, when avoidance cannot be achieved, alternate measures such as surface collection and/or subsurface data recovery of significant sites must be implemented.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
CR 3	In the event of the discovery and subsequent recovery of fossil remains, the engineer shall halt construction temporarily while remains are analyzed prior to resuming construction.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
CR 4	An archaeologist qualified to recognize and assess both prehistoric and historical resources shall monitor all excavation in the vicinity of the CA-LAN-66 site located in Vista Del Mar.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
CR 5	If new discovery is encountered Develop a contingency plan for addressing unanticipated new discoveries of cultural resources in the project area, evaluate and report any findings.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
CR 6	If significant cultural resources are found during construction, those significant cultural resources found shall be recovered from the project site, curated by an archaeologist recommended by the city and offered to an area museum whose collection is available for the viewing by the public.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report

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PAL 1	Prior to construction, the services of a qualified vertebrate paleontologist approved by the City of Los Angeles and Los Angeles County Museum of Natural History will be retained to implement the mitigation program during earth-moving activities at the project site.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
PAL 2	The paleontologist will develop a formal agreement with a recognized museum repository, such as the LACMVP or LACMIP, regarding the final disposition and permanent storage and maintenance of any fossil remains and the archiving of associated specimen data and corresponding geologic and geographic site data that might be recovered as a result of the mitigation program, and the level of treatment (preparation, identification, curation, cataloguing) of the remains that would be required before the entire mitigation program fossil collection would be accepted by the repository for storage.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
PAL 3	The paleontologist or monitor will coordinate with the appropriate construction contractor personnel to provide information regarding lead agency requirements for the protection of paleontologic resources. Contractor personnel also will be briefed on procedures to be followed in the event that a fossil site or remains are encountered by earth-moving activities, particularly when the monitor is not on site. The briefing will be presented to new contractor personnel as necessary. Names and telephone numbers of the monitor and other appropriate mitigation program personnel will be provided to the appropriate contractor personnel.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
PAL 4	Earth-moving activities will be monitored by the monitor only in those areas of the project site where these activities will disturb previously undisturbed strata. Monitoring will be conducted on a full-time basis in areas underlain by the Palos Verdes Sand and, once the activities have reached a depth 5 feet below grade, on a full-time basis in areas underlain by the coastal deposits and on a half-time basis in areas underlain by the dune sand. If fossil remains are encountered by these activities, monitoring will be increased to full time, if appropriate, at least in the vicinity of the fossil site where the area is underlain by the fossil-bearing rock unit. If no fossil remains are found once 50 percent of earth-moving activities have been completed in an area underlain by a particular rock unit, with City of Los Angeles approval, monitoring can be reduced or	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report

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	suspended in that area.				
PAL 5	All fossil specimens recovered from the project site as a result of the mitigation program, including those recovered as the result of processing fossiliferous rock samples, will be treated (prepared, identified, curated, catalogued) in accordance with designated museum repository requirements. Small rock samples from the Palos Verdes Sand, dune sand, and coastal deposits will be submitted to commercial laboratories for microfossil, pollen, or radiometric (carbon-14) dating analysis.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
PAL 6	The discovery of paleontologic resources may be present in specific project areas where grading and other excavation activities are to occur. Monitoring will consist of visually inspecting debris piles and freshly exposed strata for larger fossil remains, and periodically dry test screening sediment, rock, and debris for smaller fossil remains. As soon as practicable, the monitor will recover all vertebrate fossil specimens, a representative sample of invertebrate or plant fossils, or any fossiliferous rock sample that can be recovered easily. If recovery of a large or unusually productive fossil occurrence is warranted, earth-moving activities will be diverted temporarily around the fossil site and a recovery crew will be mobilized as necessary to remove the occurrence as quickly as possible. If not on site when a fossil occurrence is uncovered by these activities, the activities will be diverted temporarily around the fossil site and the monitor called to the site to evaluate and, if warranted, recover the occurrence. If the fossil site is determined too unproductive or the fossil remains not worthy of recovery, no further action will be taken to preserve the fossil site or remains, and earth-moving activities will be allowed to commence.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
Geology, Soils and Seismicity					
GEO 2	Liquefaction and differential seismic settlement may occur on the project. Design and construction of the proposed project will include appropriate measures.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
GEO 3	Subsidence may occur to the project area. Design and construction of the proposed project will include appropriate measures, such as a watertight excavation support system to minimize groundwater pumping or construction the pipeline in a "wet" excavation.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
GEO 4	Methane gas may be detected along the project alignments. Design	Constructor	Project Plans &	Construction	Project

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	and construction of the proposed project will include active or passive mitigation systems for methane gas hazards, if necessary.		Specifications	Inspector	Acceptance or Closeout Report
Hazards and Hazardous Materials					
HAZ 1	Abandoned wells and other subsurface structures may be encountered during construction. Any wells that must be re-abandoned, will be re-abandoned in accordance with applicable regulations.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
HAZ 2	Employees may be exposed to hazardous materials during construction. Exposure of construction workers to contaminated materials can be minimized by implementing the measures required by federal, state, and local laws and regulations. As such, potential impacts associated with the excavation of contaminated materials would be less than significant.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
HAZ 3	Hazardous materials may be temporarily stored and used on the project site and waste generated during the construction and operation of the project. All hazardous materials shall be handled and disposed in accordance with applicable regulations.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
HAZ 4	The soils may contain methane or other gases from previous oil well field development. Safety equipment, material, and assistance shall be provided to City personnel to properly inspect all phases of the work, including final inspection. Such equipment, material and assistance shall include, but not be limited to testing for the presence of explosive or toxic gases and oxygen deficiency in confined spaces, blowers, ventilators, first aid supplies and equipment, ladders, scaffolds, shoring, and personnel for standby assistance as required. Personal safety devices such as harnesses, lanyards, and self-contained breathing apparatus will be provided. When the Work requires specialized safety equipment, new sets of such equipment, training, and maintenance of such equipment shall be provided.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
HAZ 5	To ensure public safety where methane may be present along the project alignments, the City of Los Angeles Building Code requires that methane mitigation be implemented when construction occurs at these sites to ensure public safety. These measures include the installation of membrane barriers and vent piping as well as trench dams and electrical seal-offs for each of these properties.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
Hydrology and Water Quality					

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WQ 1	Runoff may occur from the project site during construction activities. Even if not otherwise required, a stormwater pollution prevention plan (SWPPP) shall be submitted for review and approval because of the highly sensitive habitat areas within the project. The SWPPP shall recommend interim and permanent improvements to existing drainage features to prevent uncontrolled runoff during construction and to accommodate any temporary increase in runoff associated with construction activities. Copies of said NPDES permit(s) and related SWPPP shall be available for inspection at the City and at the construction site prior to land disturbing activity.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
WQ 2	Dewatering discharge is expected to occur during the initial phase of pit construction, hydraulic isolation of the pits can be accomplished by the contractor by various methods of his choice, including interlocking sheet pile walls, soil cement walls constructed with Deep Mixing Methods, or slurry diaphragm walls. Water removed from the pits will be discharged to the storm drain system after proper treatment in accordance with local regulations. Solid particles will be removed by using sedimentation tanks and filtration. If petroleum contamination is encountered, free product, if any, will be skimmed off the surface and oil/water separators will be used to remove the remaining contamination. Granular activated carbon could be used to remove any dissolved organic or other contaminants. Alternatively, discharged water will be shipped to authorized vendors for treatment and disposal.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
Noise and Vibration					
NOI 1	Construction activities shall be limited to the hours of 7:00 a.m. to 9:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday, and shall avoid Sundays and national holidays to the greatest extent feasible. Construction activities beyond the aforementioned limits shall only occur if allowed by the regulating agency (e.g., the Los Angeles Police Commission in the City of Los Angeles) and required to avoid greater environmental risk.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 2	Heavy trucks associated with project construction shall be limited to major arterial streets, and away from residential roadways, to the extent practicable.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 3	All noise-producing project equipment and vehicles using internal	Constructor	Project Plans &	Construction	Project

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	combustion engines shall be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other 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) shall be equipped with shrouds and noise control features that are readily available for such type of equipment.		Specifications	Inspector	Acceptance or Closeout Report
NOI 4	All mobile or fixed noise-producing equipment used on the project, and that is regulated for noise output by a local, state, or federal agency, shall comply with such regulation while in the course of project activity.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 5	Temporary soundwall barriers shall be erected for launch and receiving pits. Such soundwall barriers shall be of a sufficient height, length and configuration so as to provide substantial noise reduction and effectively block the line-of-sight between nearby noise-sensitive receivers and the work zone	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 6	Electrically powered equipment shall be used instead of pneumatic or internal combustion powered equipment where feasible.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 7	Material stockpiles and mobile equipment staging, parking, and maintenance areas shall be located as far as practicable from noise-sensitive receptors.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 8	Construction site and haul-road speed limits shall be established and enforced during the construction period.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 9	The use of noise-producing signals, including horns, whistles, alarms, and bells shall be for safety warning purposes only.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 10	No project-related public address or music system shall be audible at any adjacent receptor.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 11	The on-site construction supervisor shall have the responsibility and authority to receive and resolve noise complaints. A clear appeal process to the owner shall be established prior to construction commencement that will allow for resolution of noise problems that cannot be immediately solved by the site supervisor.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
NOI 12	The contractor shall develop and implement a project noise control	Constructor	Project Plans &	Construction	Project

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	plan, which shall have been approved by the city.		Specifications	Inspector	Acceptance or Closeout Report
VIB 1	“Press-in” or drilling pile drives shall be utilized rather than impact or vibratory pile-drivers, if feasible.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
Recreational Resources and Facilities					
REC1	In order to minimize competition between construction-related equipment and activities and Dockweiler State Beach users for parking space at Vista Del Mar and the resulting temporary impacts to recreation, special parking arrangements will be made for construction workers.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
REC2	In order to minimize recreational access and use issues during the course of construction, additional consultation and coordination with key stakeholders, local residents, members of the general public and City/County planners will occur to balance the needs of the recreational users and construction related activities.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
REC3	The City will coordinate with the sponsors of local and major regional, national and international beach events to schedule the events and/or construction activities to minimize conflicts.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
REC4	The City will coordinate all construction scheduling and activities with the Los Angeles County Department of Public Works for the purpose of eliminating or reducing construction-related impacts.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
Aesthetics					
AES1	Mature street trees along Via Marina shall be protected in place.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AES2	Public access along Via Marina, Marquesas Way, Via Dolce, Aubrey E. Austin Park and the North Jetty Promenade shall be maintained.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
AES3	The city shall consider landscaping public areas within affected neighborhoods where open space is currently degraded and unsightly.				
AES4	The city shall consider screening from public view existing features that are incongruous with the character of their surroundings (such as the Venice Pumping Plant).				
AES5	The city shall consider creating public access to currently				

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CONSTRUCTION PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
	unavailable scenic vistas (new beach access routes, paths, bikeways, public parking).				

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OPERATION PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
	There are no mitigation measures to be implemented during operation.				

**Addendum to the
MITIGATION MONITORING PROGRAM**

FOR THE

Venice Pumping Plant Dual Force Main

W.O. SZC11631 (formerly W.O. E1700500)

SCH #2003031001

Prepared By

CITY OF LOS ANGELES
BUREAU OF ENGINEERING

September 2009

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Introduction

The California Environmental Quality Act (CEQA) requires public agencies to adopt a reporting or monitoring program for the changes to the project that have been adopted to mitigate or avoid significant effects on the environment. The program must be adopted by the public agency at the time findings are made regarding the project (Public Resources Code Section 21081.6). The State CEQA Guidelines allow public agencies to choose whether its program will monitor mitigation, report on mitigation, or both (California Code of Regulations Title 14, Chapter 3, Section 15097(c)).

In September of 2007, the City prepared a mitigation monitoring program for the Venice Pumping Plant Dual Force Main Sewer Project. Subsequently, the city re-evaluated the traffic impacts of the proposed project and its alternatives ("Traffic Study for the Venice dual Force Main, Los Angeles, California" by Fehr & Peers, 2009). This addendum is intended to incorporate the recommendations of the 2009 traffic study into the mitigation monitoring program. The text contained herein replaces the sections pertaining to circulation, traffic and parking previously described in the 2007 document.

In addition, this addendum is intended to clarify that these measures pertaining to circulation, traffic and parking are voluntary measures to reduce the adverse affects of the proposed project to the greatest extent possible. Inclusion of these measures in the mitigation monitoring program is not intended to indicate or imply that the proposed project would result in a significant impact if these measures were not taken.

Revised Mitigation Measures

The measures listed according to the stages of the project at which each mitigation measure must be implemented: design, construction, and operation.

Within each project phase, the following are identified for each mitigation measure:

- (1) An "identifier" providing a nexus between the listed mitigation measure and the source document. The source documents should be consulted whenever there is any question regarding the intent or implementation of the mitigation measure. In this case the source documents are the Draft Environmental Impact Report dated December 20, 2005 and the 2009 Traffic Study for the Venice dual Force Main, Los Angeles, California by Fehr & Peers.
- (2) description of the mitigation measure,
- (3) the party who is responsible for the necessary implementing actions,
- (4) the necessary implementing vehicle,
- (5) the party who is responsible for verifying that the necessary implementing action is taken, and
- (6) the primary record documenting the necessary implementing action.

The mechanisms for verifying that mitigation measures have been implemented include design drawings, construction documents intended for use by construction contractors and construction managers, field inspections, field reports, and other periodic or special reports. All records pertaining to this mitigation program will be maintained and made available for inspection by the public in accordance with the City's records management systems and policies.

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DESIGN PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
Circulation, Traffic and Parking					
	Incorporate all Construction Phase mitigation measures into the project plans and specifications	Project Engineer	Plans and Specifications	Project Manager	Plans and Specifications

CONSTRUCTION PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
Circulation, Traffic and Parking					
TRA 1	To ensure adequate traffic signals and controls are in place prior to and during times of construction, a construction traffic management plan shall be prepared for each construction site and submitted to the City (for sites within the City) and County (for sites not within the City) for review and approval prior to the start of any construction work.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
TRA 2	To adequately control traffic to ensure compliance with all local and state safety standards and specifications, a site-specific construction worksite traffic control plan shall be prepared for each construction site and submitted to LADOT (for sites within the City) and County (for sites not within the City) for review and approval prior to the start of any construction work. This plan shall include such elements as the location of any lane closures, restricted hours during which lane closures would not be allowed, local traffic detours, protective devices and traffic controls (such as barricades, cones, flagmen, lights, warning beacons, temporary traffic signals, warning signs), access to abutting properties, and provisions to maintain emergency access through construction work areas.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
TRA 3	To reduce traffic congestion, fully utilize available street space to minimize lane reductions on affected streets, including elimination of on-street parking where necessary. Implement left-turn restrictions as appropriate on re-stripped street segments to facilitate the movement of through traffic. Only eliminate travel lanes when	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report

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CONSTRUCTION PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
	absolutely necessary.				
TRA 4	To protect pedestrian and recreational traffic, provide signage indicating alternative pedestrian and bicycle access routes where existing facilities would be affected.	Constructor	Project Plans & Specifications	Construction Inspector	Project Acceptance or Closeout Report
TRA 5	To ensure ingress/egress to all properties adjacent to the project and surrounding areas, provide advance notice to any affected residents, businesses and property owners in the vicinity of each construction site and, where existing property access will be reduced, identify alternative means of access.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
TRA 6	To avoid impacts to public transportation, coordinate with public transit providers (MTA, LADOT Commuter Express, Culver City Bus) to provide advance notice of any lane closures, construction hours and, where necessary, to identify sites for temporary bus stops within a reasonable walking distance of any displaced bus stops.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
TRA 7	Coordinate with emergency service providers (police, fire, ambulance and paramedic services) to provide advance notice of any lane closures, construction hours and changes to local access and to identify alternative routes where appropriate.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report
TRA 8	If found to be necessary, a temporary shuttle bus could be provided to transit patrons to maintain service in the area south of Washington Boulevard. Under Alternatives 2A, 2B, 2A (FC) and 3A (FC), school bus service to the charter school on Pacific Avenue south of Washington Boulevard could be retained by routing buses from westbound Washington Boulevard to southbound Strongs Drive to westbound Driftwood Street to northbound Pacific Avenue to reach the existing student loading zone.	Constructor	Project Plans & Specifications	Project Manager	Project Acceptance or Closeout Report

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OPERATION PHASE

Identifier	Mitigation Measures	Implementation Responsibility	Implementation Vehicle	Enforcement Responsibility	Record of Implementation
	There are no mitigation measures to be implemented during operation.				