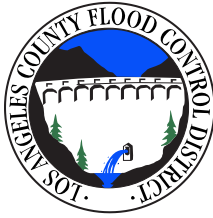


Appendix A

Notice of Preparation





Notice of Preparation

Date: August 29, 2014

To: California Office of Planning and Research, Responsible and Trustee Agencies and Interested Parties

Subject: Notice of Preparation of a Draft Program Environmental Impact Report

Project: Enhanced Watershed Management Programs

Lead Agency: Los Angeles County Flood Control District

Review Period: August 29, 2014 through September 29, 2014

The Los Angeles County Flood Control District (LACFCD) will be the Lead Agency and will prepare a Program Environmental Impact Report (PEIR) for the project identified in this notice. We need to know the views of you or your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. This Notice of Preparation (NOP) has been prepared to notify agencies and interested parties that the LACFCD is beginning preparation of a PEIR pursuant to the California Environmental Quality Act (CEQA) for its proposed Enhanced Watershed Management Programs (EWMPs, or "program").

The Los Angeles County Flood Control Act was adopted by the State Legislature in 1915 and established the LACFCD and empowered it to provide flood risk management, water conservation, and recreation and aesthetic enhancement within its boundaries. The LACFCD is governed as a separate entity by the Board of Supervisors of the County of Los Angeles and is operated by the County's Department of Public Works. The LACFCD encompasses more than 3,000 square miles, 85 cities, and approximately 2.1 million land parcels. The LACFCD, the County of Los Angeles, and 84 incorporated cities within Los Angeles County (collectively referred to as Permittees) are covered under a Municipal Separate Storm Sewer System (MS4) Permit (Order No. R4-2012-0175; National Pollutant Discharge Elimination System [NPDES] Permit No. CAS004001) for the discharge of urban runoff to waters of the United States. The purpose of the MS4 Permit is to ensure Permittees are not causing or contributing to exceedances of water quality objectives or impairments of beneficial uses in the receiving waters of the Los Angeles region.

The 2012 MS4 Permit for Los Angeles County gives Permittees the option of implementing an innovative approach to Permit compliance through development of EWMPs. The LACFCD and participating Permittees have opted to exercise this option and have submitted 12 separate Notices of Intent (NOIs) for the development of 12 EWMPs in their respective watershed groups to the Los Angeles Regional Water Quality Control Board (LARWQCB). The LARWQCB is responsible for approval of the EWMPs in compliance with the MS4 Permit. Implementation of the EWMPs would occur following approval by the LARWQCB. The preparation of the 12 separate EWMPs will be a collective effort among the LACFCD and the applicable agencies in each respective EWMP. The 12 EWMPs will vary for each watershed group, but will generally provide the opportunity for Permittees to customize their stormwater programs to achieve compliance with applicable receiving water limitations (RWLs) and water-quality-based effluent limits (WQBELs) in accordance with the MS4 Permit through implementation of stormwater best management practices (BMPs) or watershed control measures. BMPs vary in function and type, with each BMP providing unique design characteristics and benefits from implementation. The overarching goal of BMPs in the EWMP is to reduce the impact of stormwater and non-stormwater on receiving water

quality and address the water quality priorities as defined by the MS4 Permit. The development of each EWMP will involve the evaluation and selection of multiple BMP types, including nonstructural (institutional) and distributed, centralized, and regional structural watershed control measures, that will be implemented to meet compliance goals and strategies under the 2012 MS4 Permit.

The LACFCD, as a regional agency charged with conserving stormwater for use in our local water supply, has a vested interest in increasing opportunities for stormwater capture and groundwater recharge. The LACFCD has flood control infrastructure in each of the EWMP areas and is participating in all 12 EWMPs. The LACFCD will be working with the applicable Permittees and other stakeholders in all 12 EWMP watersheds to develop the EWMPs, which will be implemented by the Permittees that have jurisdiction within each EWMP area. The Permittees implementing the projects defined in the EWMPs, or "implementing agencies," will vary between EWMPs and individual projects. The LACFCD will be an implementing agency only on those projects for which it has been identified in an EWMP as a responsible implementing party.

Project Location: The proposed program would be located in several watersheds of Los Angeles County and would include the following enhanced watershed management groups: Ballona Creek, Beach Cities, Dominguez Channel, Malibu Creek, Marina del Rey, North Santa Monica Bay Coastal Watersheds (NSMBCW), Palos Verdes Peninsula, Rio Hondo/San Gabriel River Water Quality Group (RH/SGRWQG), Santa Monica Bay, Upper Los Angeles River, Upper San Gabriel River, and Upper Santa Clara River. The project area is indicated in Figure 1.

Broad Range of Potential Benefits from EWMPs: If implemented, the proposed EWMP-generated benefits would include:

- Improved Water Quality
- Reduction in Impairment of Water Bodies for Designated Beneficial Uses
- Promotion of Water Conservation and Supply
- Enhanced Recreation Opportunities
- Support for Public Education Opportunities
- Improved Local Aesthetics
- Management of Flood Risks

Public Comments: The LACFCD is soliciting the views of interested persons and agencies as to the scope and content of the environmental information to be evaluated in the PEIR. In accordance with CEQA, agencies are requested to review the project description in this NOP and provide their comments on environmental issues related to the statutory responsibilities of the agency. The PEIR will be used by LACFCD's governing Board, the Los Angeles County Board of Supervisors, when considering approval of the proposed EWMPs as well as for any related discretionary approvals.

Due to the time limits mandated by state law, all comments to the NOP are due no later than September 29, 2014. Please send your comments to the address shown below. Include a return address or email address and a contact name in your agency with your comments.

Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803
(626) 300-3298
gbegell@dpw.lacounty.gov

This NOP and other PEIR information, as it becomes available, can be accessed at:
www.LACoH2Osheds.com

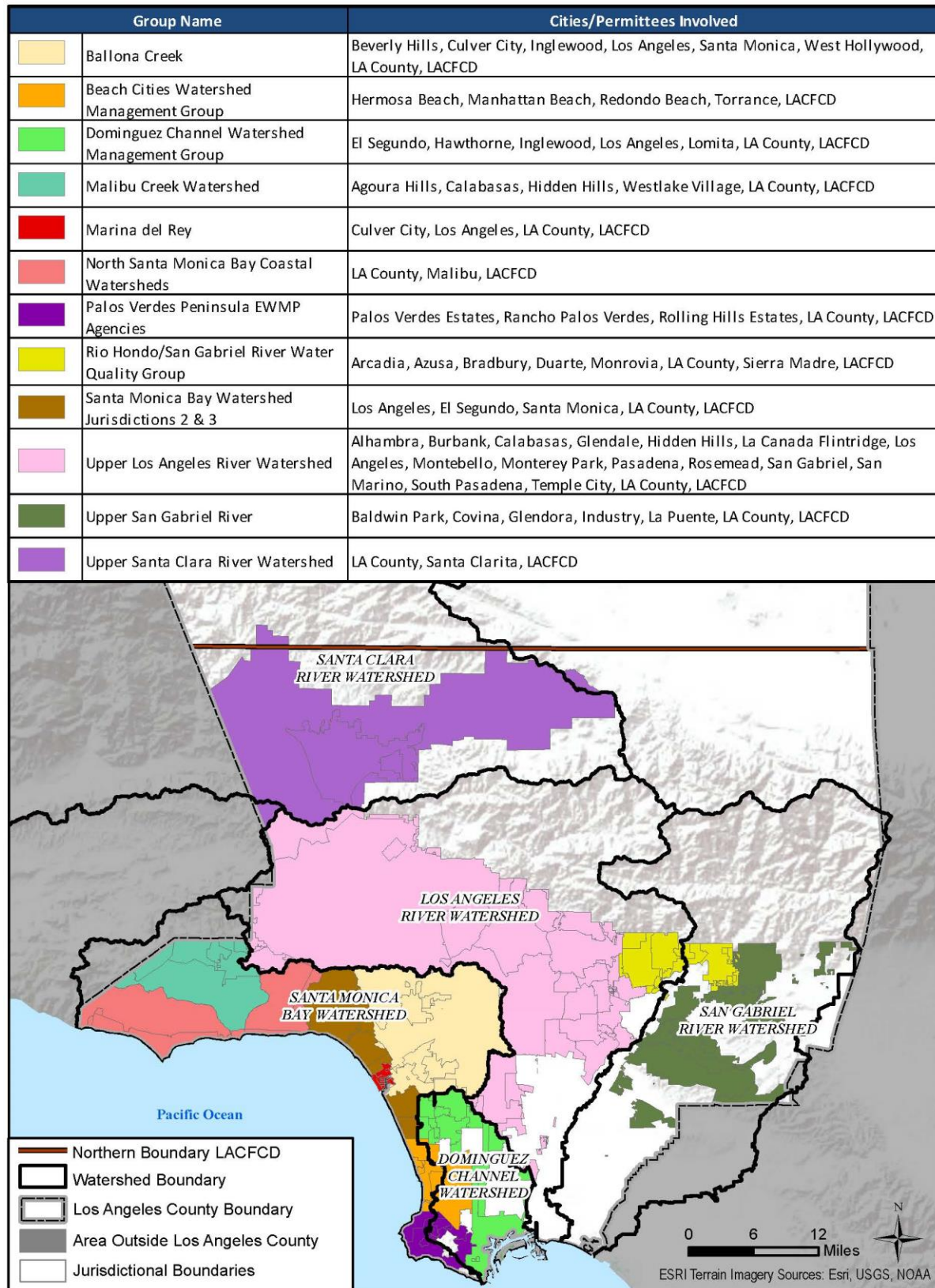
Scoping Meetings: Three scoping meetings will be held to receive public comments regarding the scope and content of the PEIR. The scoping meetings will include a brief presentation providing an overview of the proposed program and the CEQA process. After the presentation, oral comments will be accepted. Written comment forms will be supplied for those who wish to submit comments in writing at the scoping meeting. Written comments also may be submitted anytime during the NOP review period. The scoping meetings will be held as follows:

DATE: Tuesday, September 9, 2014
TIME: 6:00 P.M.
LOCATION: Chace Park Community Room TBD
13650 Mindanao Way
Marina del Rey, CA 90292

DATE: Wednesday, September 10, 2014
TIME: 6:00 P.M.
LOCATION: County of Los Angeles Department of Public Works
900 South Fremont Avenue
First Floor Conference Room C
Alhambra, CA 91803

DATE: Monday, September 15, 2014
TIME: 6:30 P.M.
LOCATION: K Dalton Room
Community Center
119 W Palm Ave
Monrovia, CA 91016

Figure 1: Overview EWMP Groups



1. Introduction

The LACFCD along with other applicable Permittees have submitted NOIs to the LARWQCB to develop EWMPs for 12 watershed groups, in accordance with the 2012 MS4 Permit, Order No. R4-2012-0175. The LARWQCB is responsible for approval of the final EWMPs in compliance with the MS4 Permit. Implementation of the EWMPs would occur following approval of the final plan. To begin preparing the EWMPs, the Permittees collaborated on, developed, and submitted Draft Work Plans to the LARWQCB, outlining the proposed approach to preparation of each of their respective EWMPs. The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach. The EWMPs will also evaluate multi-benefit regional projects that will retain (through infiltration or capture and reuse) the stormwater quality design volume (85th percentile storm for 24 hours) for the runoff from the contributing drainage area.

The proposed project includes the potential nonstructural (institutional) and distributed, centralized, and regional structural watershed control measures described in the Draft Work Plans and detailed in the EWMPs currently under preparation. These measures will be evaluated in the PEIR. The PEIR will provide a program-level assessment of the overall permit compliance effort, focusing particularly on the structural watershed control measures proposed in each of the 12 EWMP areas.

1.1 Project Location

The proposed program includes several watershed management groups of Los Angeles County, which include the following EWMP groups: Ballona Creek, Beach Cities, Dominguez Channel, Malibu Creek, Marina del Rey, North Santa Monica Bay Coastal Watersheds (NSMBCW), Palos Verdes Peninsula, Rio Hondo/San Gabriel River Water Quality Group (RH/SGRWQG), Santa Monica Bay, Upper Los Angeles River, Upper San Gabriel River, and Upper Santa Clara River. The geographic scope covered by each of these 12 EWMPs is described in further detail below and shown in Figure 1.

- Ballona Creek – The Ballona Creek EWMP area covers the Ballona Creek watershed. The Permittees within this EWMP are the Cities of Beverly Hills, West Hollywood, Los Angeles, Inglewood, Culver City, Santa Monica, and West Hollywood; County of Los Angeles; and LACFCD.
- Beach Cities – The Beach Cities EWMP area covers portions of three watersheds: Santa Monica Bay Watershed Jurisdictional Group (SMB JG) 5 & 6, Dominguez Channel Watershed, and Machado Lake Watershed. The Permittees within this EWMP are the Cities of Redondo Beach, Manhattan Beach, Hermosa Beach, and Torrance; and the LACFCD.
- Dominguez Channel – The Dominguez Channel EWMP area covers portions of three watersheds: Dominguez Channel Watershed, the Machado Lake Watershed, and the Los Angeles/Long Beach Harbors Watershed. The Permittees within this EWMP are the Cities of El Segundo, Hawthorne, Inglewood, Lomita, and Los Angeles; County of Los Angeles; and the LACFCD.
- Malibu Creek – The Malibu Creek Watershed (MCW) EWMP area covers the majority of the MCW. The Permittees within this EWMP are the Cities of Agoura Hills, Calabasas, Hidden Hills, , and Westlake Village; County of Los Angeles; and the LACFCD.

- Marina del Rey – The Marina del Rey EWMP area covers the Marina del Rey Watershed. The Permittees within this EWMP are the Cities of Los Angeles and Culver City; County of Los Angeles; and LACFCD.
- North Santa Monica Bay – The NSMBCW EWMP area covers the SMB JG 1, SMB JG 4, and a portion of Malibu Creek within the City of Malibu’s borders. The Permittees within this EWMP are the City of Malibu; County of Los Angeles; and LACFCD.
- Palos Verdes Peninsula – The Palos Verdes Peninsula watershed management area covers most of the SMB JG7, the Los Angeles Harbor subwatershed, and the Machado Lake subwatershed. The Permittees within this EWMP are the Cities of Rancho Palos Verdes, Palos Verdes Estates, and Rolling Hills Estates; County of Los Angeles; and LACFCD.
- Rio Hondo/San Gabriel River – The RH/SGRWQG EWMP area covers portions of the Los Angeles and San Gabriel River watersheds. The Permittees within this EWMP are the Cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, and Sierra Madre; County of Los Angeles; and LACFCD.
- Santa Monica Bay – The Santa Monica Bay EWMP area covers the central region of the Santa Monica Bay Watershed (SMB JG2 and SMB JG3) and includes the urbanized Dockweiler and Santa Monica subwatersheds, as well as natural open space located in the Castle Rock, Pulga Canyon, Temescal Canyon, and Santa Monica Canyon subwatersheds. The Permittees within this EWMP include the Cities of Los Angeles, Santa Monica, and El Segundo; County of Los Angeles; and LACFCD.
- Upper Los Angeles River – The Upper Los Angeles River EWMP area covers the upper reaches of the Los Angeles River Watershed. The Permittees within this EWMP are the Cities of Alhambra, Burbank, Calabasas, Glendale, Hidden Hills, La Cañada Flintridge, Los Angeles, Montebello, Monterey Park, Pasadena, Rosemead, San Gabriel, San Marino, South Pasadena, and Temple City; County of Los Angeles; and LACFCD.
- Upper San Gabriel River – The Upper San Gabriel River EWMP area covers portions of the San Gabriel River Watershed. The Permittees within this EWMP are the Cities of Baldwin Park, Covina, Glendora, Industry, and La Puente; County of Los Angeles; and LACFCD.
- Upper Santa Clara River – The Upper Santa Clara River EWMP area covers the Upper Santa Clara River Watershed. The Permittees within this EWMP are the City of Santa Clarita; County of Los Angeles; and LACFCD.

2. Background

2.1 Stormwater/Water Quality

MS4 discharges consist of stormwater and non-stormwater generated from municipal land uses that are ultimately discharged into surface waters throughout the region. The MS4 system includes curbs and gutters, man-made channels, catch basins, and storm drains throughout the Los Angeles region. Discharges may adversely affect receiving surface water quality with pollutants such as bacteria, nutrients (nitrogen and phosphorus), aluminum, copper, lead, zinc, diazinon, and cyanide. Aquatic toxicity, particularly during wet weather, is also a concern. Stormwater and non-stormwater discharges of debris and trash are also a pervasive water quality problem in the Los Angeles region. Pollutants in stormwater and non-stormwater may have damaging effects on both human health and aquatic ecosystems.

Water quality assessments conducted by the LARWQCB have identified impairment of beneficial uses of water bodies in the Los Angeles region possibly caused or contributed to by pollutant loading from municipal stormwater and non-stormwater discharges. The MS4 Permit described below is designed to reduce pollutant loads into local surface waters.

2.2 Total Maximum Daily Loads

The federal Clean Water Act (CWA), Section 303(d), requires states to identify waters that do not meet water quality standards despite the treatment by pollution-control technology. States are required not only to identify these “water quality limited segments” but also to prioritize such waters for the purpose of developing Total Maximum Daily Loads (TMDLs). A TMDL is defined as the “sum of the individual waste load allocations (WLAs) for point sources and load allocations for nonpoint sources and natural background” (40 CFR 130.2), such that the capacity of the water body to assimilate constituent loads (the loading capacity) is not exceeded. A TMDL represents an amount of pollution that can be released into a specific water body without causing a decline in water quality and impairment of beneficial uses. The TMDL also allocates the loads among current and future pollutant sources to the water body and forms the basis for WQBELs and RWLs assigned in NPDES permits. LARWQCB and United States Environmental Protection Agency (USEPA) have established 33 TMDLs that identify Los Angeles County MS4 discharges as one of the pollutant sources causing or contributing to these water quality impairments.

2.3 MS4 Permit

On November 8, 2012, the LARWQCB adopted the fourth NPDES MS4 Permit (Order No. R4-2012-0175) for discharges from the MS4 within the coastal watersheds of Los Angeles County. The MS4 Permit became effective on December 28, 2012. The 2012 MS4 Permit establishes the waste discharge requirement for stormwater and non-stormwater discharges within the watersheds of Los Angeles County. The MS4 Permit identifies conditions, requirements, and programs that municipalities must comply with to protect regional water resources from adverse impacts associated with pollutants in stormwater and urban runoff. The MS4 Permit contains effluent limitations, RWLs, Minimum Control Measures (MCMs), TMDL provisions, and outlines the process for developing watershed management programs, including the EWMP.

The 2012 MS4 Permit includes provisions that allow Permittees to voluntarily choose to implement an EWMP to achieve permit compliance with RWLs. The intent of the EWMP is to comprehensively evaluate opportunities, within the participating Permittees' collective jurisdictional boundaries, for collaboration among Permittees and other partners on multi-benefit regional projects that, wherever feasible, retain non-stormwater runoff and also address flood control and/or water supply. Twelve EWMP groups have formed to implement a collaborative approach to meeting the requirements of the 2012 MS4 Permit.

3. Enhanced Watershed Management Plans

The MS4 Permittees listed in Figure 1 submitted 12 NOIs for the development of 12 EWMPs to the LARWQCB. The 12 NOIs were approved by the LARWQCB. The 12 EWMPs being developed in Los Angeles County for the applicable watersheds have been a collaborative effort by the various EWMP agencies.

The EWMPs provide for their respective areas a comprehensive stormwater management plan that optimizes the stormwater and financial resources under the stewardship of the EWMP groups. The EWMPs include multi-benefit stormwater management projects that may also provide environmental, aesthetic, recreational, water supply, and/or other community enhancements in a cost-effective manner.

To begin preparing the EWMPs, the Permittees collaborated on, developed, and submitted Draft Work Plans to the LARWQCB, outlining the proposed approach to preparation of each of their respective EWMPs. The EWMP Work Plans establish the basis for the EWMPs. The EWMP Draft Work Plans describe the path that MS4 Permittees propose to complete the Watershed Management Program requirements of the 2012 MS4 Permit.

In accordance with the provisions of the MS4 permit, the work plans describe the following steps to EWMP development:

1. Identification of water quality priorities, including evaluation of existing water quality conditions, classification of pollutants, assessment of known and suspected pollutant sources in the watershed, and prioritization of water quality issues in the watershed
2. Characterization of existing and potential control measures within the watershed
3. Addressing the approach to incorporate reasonable assurance analysis (RAA) in the optimization of watershed control measures

The LARWQCB is responsible for approval or denial of the EWMPs in compliance with the MS4 Permit. Implementation of the EMWPs would occur following approval by the LARWQCB.

4. EWMP Watershed Control Measures

The MS4 Permit requires Permittees to identify strategies, control measures, and BMPs that will be implemented. Improvements to water quality will be achieved through implementation of watershed control measures that consist of both structural and nonstructural BMPs. BMPs vary in function and type, with each BMP providing unique design characteristics and benefits from implementation. Opportunities for BMP implementation are driven by locations where BMPs are feasible/desirable. The overarching goal of BMPs in the EWMPs is to reduce the impact of stormwater and non-stormwater on receiving water quality and to address water conservation and the water quality priorities. The development of the

EWMPs will involve the evaluation and selection of multiple BMP types, as described in the following pages.

4.1 Structural BMPs

Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage, as follows:

- Infiltration – Runoff is directed to percolate into the underlying soils. Infiltration generally reduces the volume of runoff and increases groundwater recharge.
- Water quality treatment – Pollutants are removed through various unit processes, including filtration, settling, sedimentation, sorption, straining, and biological or chemical transformations.
- Storage – Runoff is captured, stored (detained), and slowly released into downstream waters. Storage can reduce the peak flow rate from a site, but does not directly reduce runoff volume.

There are three categories of structural BMPs—regional, centralized, and distributed; they are defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit. Structural BMPs fall under a variety of subcategories that correspond to their function and water quality benefit. Each of these three categories is described below.

4.1.1 Regional Structural BMPs

“Regional EWMP projects” are defined by the MS4 Permit as multi-benefit regional projects that, wherever feasible, retain all non-stormwater runoff and all stormwater runoff from the 85th percentile, 24-hour storm event for the contributing drainage area, while also achieving other benefits such as flood control and/or water supply. Examples of regional structural BMPs include:

- Infiltration BMPs
 - Surface Infiltration BMPs (Infiltration Basins, Infiltration Trenches, Infiltration Galleries, and Bioretention-implemented as single or multiple types)
 - Multi-Directional Infiltration BMPs (Dry Wells, Hybrid Bioretention, and Dry Wells)
- Detention Basins (promote settling out of larger particles)
- Capture and Use BMPs (underground cisterns, storage, and use as irrigation)

Regional BMPs include infiltration facilities that promote groundwater recharge and detention facilities that encourage settling of larger particles in stormwater flows. Infiltration and detention regional BMPs can be either constructed as open-surface basins or subsurface galleries. Capture and Use BMPs collect and use stormwater where applicable for purposes such as irrigation. All of these BMP types must retain the required design storm volume without release into the MS4 or receiving waters.

Opportunities for Regional BMPs will be identified and evaluated within and across subwatersheds, with focus on the multi-benefit potential for capture and reuse of wet-weather flows within variable drainage areas. Availability of public land will be the first criteria for identifying the location and type of BMP. Potential project locations may include areas with open spaces, whether they are within parks, large parking lots, or vacant spaces.

Regional BMPs that may be included in the EWMPs will be identified and described further in the PEIR.

4.1.2 Centralized Structural BMPs

Centralized structural BMPs are constructed structural practices intended to treat runoff from a contributing area of multiple parcels. Generally, centralized structural BMPs are installed on large public parcels or adjacent to storm drain outfalls and receiving waters. Some examples of centralized structural BMPs include the following:

- Bioinfiltration BMPs (Bioretention with underdrain, bioinfiltration, highflow biotreatment, and raised underdrain, vegetated swales, filter strips—implemented as single or multiple types)
- Constructed wetlands (aboveground and belowground)
- Treatment BMPs/Low-flow diversion
- Creek/river/floodplain/estuary restoration

4.1.3 Distributed Structural BMPs

Distributed structural BMPs are constructed structural practices intended to treat runoff close to the source and are typically implemented at a single- or few-parcel level. The following list includes common distributed BMPs that can be implemented at the parcel level:

- Site scale detention (dry/wet detention ponds, detention chambers)
- Green infrastructure/Low Impact Development (LID)
 - Biofiltration
 - Bioretention
 - Porous/permeable pavers
 - Green streets
 - Infiltration BMPs
 - Bioswales/buffer strips
 - Planter boxes
 - Rainfall harvesting (green roofs, rain barrels, and cisterns)
- Flow-Through Treatment BMPs
 - Media/cartridge filters
 - High-flow biotreatment
- Source Control Treatment BMPs
 - Catch basin inserts/screens
 - Hydrodynamic separators
 - Gross solids removal devices (GSRDs)
 - Low flow diversions

4.2 Institutional BMPs/ Non-Structural Control Measures

These are policies, actions, and activities which are intended to prevent pollutants from entering stormwater runoff, thus eliminating the source of the pollutants. Most institutional BMPs are implemented to meet Minimum Control Measure (MCM) requirements in the MS4 permit; MCMs are considered a subset of institutional BMPs. MCMs do not involve construction of facilities that physically remove pollutants, but may involve costs associated with the procurement and installation of items such as signage or spill response kits. The six categories of MCMs outlined in the MS4 permit are as follows:

- Development Construction Program
- Planning and Land Development Program
- Industrial Commercial Facilities Control Program
- Illicit Connections and Illicit Discharges Detection and Elimination Program
- Public Agency Activities Program
- Public Information and Participation Program

Nonstructural BMPs or Institutional Controls are often implemented as programs or strategies which seek to prevent and/or reduce runoff and/or pollution close to the source. Nonstructural BMPs include but are not limited to:

- Irrigation control (runoff reduction) and water-efficient landscaping
- Brake pad replacement
- Covered trash receptacles
- Replacement of lead in wheel weights, or reduction in the copper content of brake pads
- Pet waste cleanup stations
- Street sweeping
- Catch basin cleaning
- Downspout disconnect program

The MS4 permit allows Permittees to customize MCMs to address high-priority water quality goals within their watersheds. Customization can range from eliminating an MCM (with the exception of the Planning and Land Development Program requirement), proposing actions within an MCM to target specific water quality issues, and increasing or decreasing activities within an MCM (with appropriate justification).

Because the LACFCD does not have jurisdictional authority for ordinance and code enactment or enforcement, they are limited in application of MCMs for Public Information and Participation Programs.

5. Potential Environmental Impacts

The LACFCD is considering having the PEIR evaluate the following preliminary listing of potential environmental issues. The environmental issues to be addressed will be finalized after the close of the public comment period and comments on the NOP are received.

The PEIR will focus on potential effects that could result from implementation of the projects and management actions identified in each EWMP. The PEIR will assess the physical changes to the environment that would likely result from the construction and operation of EWMP projects, including direct, indirect, and cumulative impacts. Potential impacts are summarized below. The PEIR will identify mitigation measures if necessary to minimize potentially significant impacts of each EWMP. The PEIR is anticipated to evaluate, at a minimum, the following preliminary listing of environmental issues.

Aesthetics

Potential direct and indirect impacts could occur both during construction and after the proposed EWMP facilities are built and operating. Potential issues associated with aesthetics in relation to the proposed EWMP BMPs could include obstruction of high-quality or important views during either construction or operation of EWMP BMPs, impacts to local character, or construction of facilities incompatible with local recreation facilities or open-space areas. The PEIR will identify the potential visible physical changes to the natural and man-made environment, including the addition of new BMPs into the viewshed (temporary and permanent) and the removal of other components from the view (i.e., blocking of views). The PEIR will also identify the potential effects of the proposed EWMP BMPs on the existing light, glare, shadow, and shade environments.

Air Quality

Construction and operation of EWMP projects could cause air emissions. Air emissions could result from construction equipment exhaust, ground disturbance during construction, material hauling, construction employee-commute travel, vehicle operational maintenance trips, and vehicle trips associated with any increases in employment. Operation of some of the proposed EWMP facilities may potentially generate emissions associated with energy use. The PEIR will evaluate the effects of construction and operational activities on air quality and also will develop mitigation measures if necessary to reduce potential impacts.

Biological Resources

Implementation of the EWMP projects could occur within existing sensitive habitats. The projects could result in changes to wildlife habitat, disruption of natural movement corridors, fragmentation or isolation of wildlife habitats, and disturbance of sensitive species during construction or operation. In particular, reduced flows in downstream segments resulting from runoff retention could alter riparian and aquatic habitats. The PEIR will evaluate the potential for such facilities to impact biological resources and will also discuss local ordinances and state and federal regulations governing biological resources.

Cultural Resources

The proposed EWMP BMPs would require construction of structural BMPs which could be above and/or below ground. Issues regarding cultural resources during construction activities could include disturbance of known or unknown archeological sites, paleontological resources, and/or human remains where groundbreaking activities occur as well as disturbance or alteration of structures with historical importance. The PEIR will assess the potential effects of the proposed EWMP BMPs on cultural resources, including archaeological, paleontological, and Native American resources. Mitigation measures will be identified if necessary to reduce the level of impact where possible.

Geology, Soils, and Seismicity

Southern Los Angeles County is a seismically active region. The proposed EWMP BMPs would require construction of structural BMPs that could be subject to potential seismic and geologic hazards, including

ground shaking, liquefaction, soil stability conditions, soil erosion rates, expansive soils, and landslides. Policies provided in the County's General Plan and applicable standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects. The PEIR will identify mitigation measures if necessary to reduce potential adverse effects to proposed facilities.

Greenhouse Gas Emissions

Implementation of proposed EWMP BMPs could result in the generation of greenhouse gas (GHG) emissions associated with construction and operations. The PEIR will estimate construction-related emissions and long-term operational emissions, including total CO₂-equivalent emissions for evaluating the effects of GHGs. The PEIR will examine the project's effects on global climate change and evaluate consistency of the project with the State's GHG emissions reduction goals.

Hazards and Hazardous Materials

Excavation during construction of proposed EWMP BMPs could uncover contaminated soils or hazardous substances that pose a substantial hazard to human health or the environment. Construction activities could result in the release of hazardous materials. Potential hazards will be evaluated and assessed by reviewing the data collected by the California State Water Resources Control Board (SWRCB) GeoTracker and the California Department of Toxic Substances Control (DTSC) Envirostor databases. The policies provided in the County's General Plan and any standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects. The PEIR will evaluate the potential for EWMP projects to result in the release of hazardous materials. Mitigation measures will be proposed if necessary to reduce any significant effects of the project that may involve hazardous material issues to ensure that any hazards encountered during construction would be handled in accordance with applicable regulations.

Hydrology and Water Quality

Implementation of the proposed EWMP BMPs may change local drainage patterns at construction sites, which could affect the volume, quality, and rates of surface runoff that in turn could affect local surface water resources. Considered cumulatively, the proposed EWMP facilities may also change regional drainage patterns, which could affect the hydrology, hydraulics, and/or water quality of streams, rivers, and other receiving waters. The PEIR will identify relevant federal, state, and local regulations and agencies, including provisions of the federal Clean Water Act, the state Porter-Cologne Water Quality Control Act, and the permitting and regulatory authority of the RWQCB. The PEIR will identify stormwater quality protection measures required during construction and operation of proposed facilities. The PEIR also will evaluate potential impacts to flood control capacity and develop mitigation strategies if necessary to avoid significant impacts.

Implementation of the proposed EWMP BMPs would likely result in increased infiltration and recharge in various locations throughout the EWMP watersheds. Such activities could affect local groundwater levels and water quality. The PEIR will evaluate potential effects of increased storm water recharge and will identify mitigation measures if necessary to ensure that potentially necessary significant impacts are reduced or avoided.

Land Use and Recreation

Implementation of the proposed EWMP BMPs would include implementation of structural BMPs throughout the EWMP watershed areas. Issues associated with land use and planning could result from construction of new BMPs from the proposed EWMP. Issues associated with these components could

include compatibility with adjacent land uses or zoning designations, consistency with relevant land use policies, and access to adjacent land during new construction or repairs of existing flood control or recharge facilities. The PEIR will evaluate the compatibility of the proposed EWMP BMPs with existing and planned land uses within the EWMP watershed areas.

Noise

Implementation of the proposed EWMP BMPs would require implementation of structural BMPs that would potentially generate noise and vibration. Construction activities that could be a significant source of noise and vibrations include trucking operations, use of heavy construction equipment (e.g., graders, cranes, and frontend loaders), pile driving activities, and blasting. Fixed sources of noise may include pumps and motors at pump stations. Construction noise and vibration impacts related to the proposed EWMP facilities will be evaluated at a program level. The PEIR will recommend mitigation strategies to ensure that proposed EWMP projects implemented by local agencies comply with local noise policies and ordinances.

Population and Housing/Growth Inducement

Implementation of the proposed EWMP BMPs will include implementation of structural and nonstructural BMPs that would improve water quality and increase stormwater infiltration. The proposed EWMP BMPs are unlikely to affect population and housing or induce growth. In addition, construction of the proposed EWMP BMPs or alteration of current facilities is not anticipated to lead to displacement or interruption of operation of businesses during construction. The PEIR will, however, identify current population and employment projections and identify local planning jurisdictions with the authority to approve growth and mitigate secondary effects of growth.

Public Services

Implementation of the proposed EWMP BMPs is unlikely to affect demand for public services, or, by itself, to require new or expanded facilities for public service providers. Potential issues related to the construction and operation of the proposed EWMP facilities include disruption or impediment of fire, police, or other emergency services to areas/facilities where proposed EWMP facilities would be constructed or operated. However, the PEIR will assess the potential for the proposed EWMP BMPs to affect police and fire protection services, schools, parks, and recreational facilities, such that new or expanded buildings or structures may be required that would, in turn, affect the environment.

Traffic and Transportation

Construction of the proposed EWMP BMPs could affect traffic on local roadways as a result of vehicle trips associated with hauling of material and equipment, road closures and detours, increased demand for parking to serve construction workers, and increase in traffic hazards caused by construction activities. The PEIR will evaluate the potential for additional construction vehicles, lane closures, or road closures to impact traffic and circulation. The PEIR will identify mitigation strategies to reduce any potential effects.

Utilities and Energy

Potential issues related to the construction and operation of the proposed BMPs include the disruption or impediment of service to areas where the proposed BMPs would be constructed or operated. Existing and projected regional supplies, demands, and facilities will be described along with any existing constraints, deficiencies, or service issues for the proposed EWMP BMPs. The PEIR will evaluate the project's potential to affect utilities and will identify mitigation measures to minimize the effects.

Implementation of the proposed EWMP BMPs would also result in implementation of watershed control measures that may potentially increase the amount of energy required locally to operate some of these BMPs. The PEIR will evaluate potential energy consumption associated with implementation of structural and nonstructural BMPs.

State Clearinghouse
Office of Planning and Research
1400 10th Street, Room 222
Sacramento, CA 95814

Attn: CEQA Review
County of Los Angeles, Department of
Regional Planning
320 W. Temple St., 13th Floor
Los Angeles, CA 90012

County of Los Angeles, Board of
Supervisors, 1st District
Attn: Gloria Molina
Hall of Administration
500 W. Temple St, RM 856
Los Angeles, CA 90012

Los Angeles Regional Water Quality
Control Board
Attention: Mr. Samuel Unger, P.E.
320 West 4th Street, Suite 200
Los Angeles, CA 90013

ATTN: CEQA Review
Environmental Planning Team
Metropolitan Water District of So. California
700 North Alameda Street
Los Angeles, CA 90012-2944

County of Los Angeles, Board of
Supervisors, 2nd District
Attn: Mark Ridley-Thomas
Hall of Administration
500 W. Temple St, RM 866
Los Angeles, CA 90012

State Water Resources Control Board
ATTN: CEQA Review
1001 I Street
Sacramento, CA 95814

ATTN: General Manager
Central Basin Municipal Water District
6252 Telegraph Road
Commerce, CA 90040-2512

County of Los Angeles, Board of
Supervisors, 3rd District
Attn: Zev Yaroslavsky
Hall of Administration
500 W. Temple St, RM 821
Los Angeles, CA 90012

US Environmental Protection Agency
Office of Water (4100T)
ATTN: CEQA Review
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

ATTN: General Manager
West Basin Municipal Water District
17140 South Avalon Boulevard, Suite 210
Carson, CA 90746-1296

County of Los Angeles, Board of
Supervisors, 4th District
Attn: Don Knabe
Hall of Administration
500 W. Temple St, RM 822
Los Angeles, CA 90012

California Environmental Protection Agency
(CalEPA)
ATTN: CEQA Review
1001 I Street
Sacramento, CA 95812-2815

ATTN: General Manager
Water Replenishment District
4040 Paramount Boulevard
Lakewood, CA, 90712

County of Los Angeles, Board of
Supervisors, 5th District
Attn: Michael D. Antonovich
Hall of Administration
500 W. Temple St, RM 869
Los Angeles, CA 90012

U.S. Army Corp of Engineers
ATTN: CEQA Review
915 Wilshire Blvd., Suite 1101
Los Angeles, CA 90017

South Coast Air Quality District
ATTN: CEQA Review
21865 Copley Drive
Diamond Bar, CA 91765

Attn: CEQA Review
Los Angeles County Public Health
5050 Commerce Dr.
Baldwin Park, CA 91706

California Department of Fish and Wildlife
– CEQA Review
South Coast Region
3883 Ruffin Road
San Diego, CA 92123

Department of Toxic Substances
ATTN: CEQA Review
9211 Oakdale Avenue
Chatsworth, CA 91311-6505

Attn: CEQA Review
Planning Department
Sanitation Districts of Los Angeles County
1955 Workman Mill Road
Whittier, CA 90607-2301

California Department of Fish and Wildlife
CEQA Program
1416 Ninth Street, Suite 1260
Sacramento, CA 95814

Caltrans District 7
ATTN: CEQA Review
100 S. Main Street
Los Angeles, CA 90012

Charles C. Holloway
Manager, Environmental Affairs
Los Angeles Dept of Water and Power
111 N. Hope Street
Los Angeles, CA 90051-0100

ATTN: CEQA Review
US Fish and Wildlife Service
Pacific Southwest (Region 8)
2800 Cottage Way, Room W-2606
Sacramento, California 95825-1846

Southern California Association of
Governments
CEQA Intergovernmental Review
818 West 7th St, 12th floor
Los Angeles, CA 90017

ATTN: General Manager
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302-1994

ATTN: General Manager
Foothill Municipal Water District
4536 Hampton Road
La Cañada, CA 91011

ATTN: General Manager
Three Valleys Municipal Water District
1021 E Miramar Ave.
Claremont, CA 91711-2052

ATTN: General Manager
Upper San Gabriel Valley Municipal
Water District
602 E. Huntington Drive, Suite B
Monrovia, CA, 91016

BALLONA CREEK

Attention: Shahram Kharaghani
City of Los Angeles Department of Public
Works/Bureau of Sanitation, Watershed
Protection Division
1149 S. Broadway
Los Angeles, CA 90015

Attention: Daniel Cartagena
City of Beverly Hills
455 North Rexford Drive
Beverly Hills, CA 90210

Attention: Charles D. Herbertson
City of Culver City
9770 Culver Blvd., 2nd Floor
Culver City, CA 90232-0507

Attention: Sharon Perlstein
City of West Hollywood
Department of Transportation and Public
Works
8300 Santa Monica Boulevard
West Hollywood, CA 90069-6216

Attention: Lauren Amimoto
City of Inglewood
Public Works Department
1 Manchester Blvd
Inglewood, CA 90301

Attention: Rick Valte
City of Santa Monica
Public Works Department
Civil Engineering Division
14373 4th Street, Suite 300
Santa Monica, CA 90401

Attention: Gary Hildebrand
Los Angeles County Flood Control
District/Department of Public Works
Watershed Management Division, 11th
Floor/900 South Fremont Avenue
Alhambra, CA 91803-1331

Attn: CEQA Review
Mar Vista Recreation Center
11430 Woodbine St
Los Angeles, CA 90066

BEACH CITIES

Attn: Raul Saenz
City of Manhattan Beach
City Hall
1400 Highland Avenue
Manhattan Beach, CA 90266-4795

Attn: Elaine Jeng
City of Redondo Beach
415 Diamond Street, PO Box 270
Redondo Beach, CA 90277-0270

Attn: John C. Dettle
City of Torrance
20500 Madrona Avenue
Torrance, CA 90503

Attn: CEQA Review
City of Los Angeles
Department of Parks and Recreation
211 N. Figueroa St. Suite 1550
Los Angeles, CA 90012

Attn: Frank Senteno
City of Hermosa Beach
Civic Center
1315 Valley Drive
Hermosa Beach, CA 90254-3885

DOMINGUEZ CHANNEL

Attn: Doug Krauss
City of Hawthorne
Hawthorne City Hall
4455 W. 126th Street
Hawthorne, CA 90250

Attn: LiFan Xu
City of El Segundo
350 Main Street
El Segundo, CA 90245

Attn: CEQA Review
City of Lomita
Lomita City Hall
24300 Narbonne Avenue
Lomita, CA USA 90717

Attention: Angela George
County of Los Angeles
Department of Public Works/Watershed
Management Division, 11th Floor
900 South Fremont Avenue
Alhambra, CA 91803-1331

MALIBU CREEK

Attn: CEQA Review
Las Virgenes Municipal Water District
4232 Las Virgenes Rd
Calabasas, CA 91302

Attn: Rob DuBoux
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265-4861

Attn: Alex Farassati
City of Calabasas
100 Civic Center Way
Calabasas, CA 91302

Attn: Kelly Fisher
City of Agoura Hills
30001 Ladyface Court
Agoura Hills, CA 91301

Attn: CEQA Review
California Department of Parks and Rec.
1416 9th St
Sacramento, CA 95814

Joe Bellomo
City of Westlake Village
31200 Oak Crest Dr
Westlake Village, CA 91361

Attn: Joe Bellomo
City of Hidden Hills
6165 Spring Valley Road
Hidden Hills, CA 91302

Attn: CEQA Review
Ventura County Watershed Protection
District
800 South Victoria Avenue
Ventura, California 93009-1610

MARINA DEL REY

Attention: Gail Farber
County of Los Angeles
Department of Public Works
900 South Fremont Avenue, 12th Floor
Alhambra, CA 91803-1331

NORTH SANTA MONICA BAY

Attn: CEQA Review
Malibu Creek Watershed Council
30000 Mulholland Hwy,
Agoura Hills CA 91301

Attn: Jennifer Brown
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265-4861

PALOS VERDES

Attn: CEQA Review
Planning Department
Sanitation Districts of LA County
1955 Workman Mill Road
Whittier, CA 90607-4998

Attn: Gregg Grammer
City of Rolling Hills Estates
4045 Palos Verdes Drive North
Rolling Hills Estates , California 90274

Attn: CEQA Review
Palos Verdes Land Conservancy
916 Silver Spur Rd Ste 207
Rolling Hills, CA 90274

Attn: Allan Rigg
City of Palos Verdes Estates
340 Palos Verdes Dr West,
Palos Verdes Estates, CA 90274

Attn: Andy Winje
City of Rancho Palos Verdes
30940 Hawthorne Blvd,
Rancho Palos Verdes, CA 90275

Attn: CEQA Review
LA County Parks
433 S Vermont Ave Fl 4
Los Angeles, CA 90020

Attn: CEQA Review
Heal the Bay
1444 9th Street
Santa Monica, CA 90401

RIO HONDO / SAN GABRIEL

Attn: CEQA Review
San Gabriel Valley Council of
Governments
1000 S. Fremont Avenue Unit 42
Alhambra, CA 91803

Attn: Heather Maloney
City of Monrovia
600 South Mountain Avenue
Monrovia, CA 91016-3611

Attn: Carl E. Hassel
City of Azusa
213 E. Foothill Blvd.
Azusa, CA 91702

Attn: Michelle Keith
City of Bradbury
600 Winston Avenue
Bradbury, CA 91008

Attn: Vanessa Hevener
City of Arcadia
11800 Goldring Road
Post Office Box 60021
Arcadia, CA 91066-

Attn: CEQA Review
Metro Gold Line Foothill Extension
Construction Authority
406 East Huntington Drive, Suite 202
Monrovia, California 91016

Attn: Bruce Iman
City of Sierra Madre
Public Works Department
232 West Sierra Madre Boulevard
Sierra Madre, CA 91024

Attn: Rafael Casillas
City of Duarte
1600 Huntington Drive
Duarte, CA
91010-2592

SANTA MONICA BAY

Attn: Stephanie Katsouleas
City of El Segundo
350 Main Street
El Segundo, CA 90245

UPPER LOS ANGELES RIVER

Attn: Elroy Kiepke
Willdan Engineering
13187 Crossroads Pkwy N, La Puente, CA
91746

Attn: John Hunter
John L Hunter and Associates
6131 Orangethorpe Ave Ste 350
Buena Park, CA

Attn: David Dolphin
City of Alhambra
111 South First Street
Alhambra, CA 91801

Attn: Alvin Cruz
City of Burbank
Public Works Department
150 N. Third St
Burbank, CA 91502

Attn: Maurice Oillataguerre
City of Glendale
633 East Broadway, Room 209
Glendale, CA 91206-4385

Attn: Steve Freeland
City of Hidden Hills
6165 Spring Valley Road
Hidden Hills, CA 91302

Attn: Edward Hitti
City of La Cañada Flintridge
1327 Foothill Blvd
La Cañada Flintridge, CA 91011

Attn: Norma Salinas
City of Montebello
1600 West Beverly Boulevard
Montebello, CA 90640-3932

Attn: Amy Ho
City of Monterey Park
320 West Newmark Avenue
Monterey Park, CA 91754-2896

Attn: Shin Furukawa
City of South Pasadena
Office of the City Manager
1414 Mission Street
South Pasadena, CA 91030

Attn: Stephen Walker
City of Pasadena
100 North Garfield Avenue N. 306
PO Box 7115
Pasadena, CA 91109-7215

Attn: Elroy Kiepke
City of Rosemead
8838 E. Valley Boulevard
PO Box 399
Rosemead, CA 91770

Attn: CEQA Review
City of San Fernando
San Fernando City Hall, 117 Macneil
Street, San Fernando, CA 91340

Attn: Daren Grilley
City of San Gabriel
PO Box 130
San Gabriel, CA 91778-0130

Attn: Kevin Sales
City of San Marino
2200 Huntington Drive
San Marino, CA 91108

Attn: Mark Persico
City of Temple City
9701 Las Tunas Drive
Temple City, CA 91780-2249

UPPER SAN GABRIEL RIVER

Attn: Daniel Wall
City of Baldwin Park
14403 East Pacific Avenue
Baldwin Park, California 91706

Attn: David A. Davies
City of Glendora
116 E. Foothill Blvd
Glendora, CA 91741-3380

Attn: John D. Ballas
City of Industry
15625 Stafford St
City of Industry, CA 91744

Attn: Vivian Castro
City of Covina
Covina City Hall
125 E. College Street
Covina, CA 91723-2199

Attn: John Di Mario
La Puente City Hall
City of La Puente
15900 Main Street
La Puente CA 91744

UPPER SANTA CLARITA RIVER

Attn: CEQA Review
City of Santa Clarita
23920 Valencia Boulevard
Santa Clarita CA 91355

Appendix B

Scoping Report and Comment Letters



**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
ENHANCED WATERSHED MANAGEMENT PROGRAMS PROGRAM EIR**

Scoping Report

Introduction and EWMP Overview

The Los Angeles County Flood Control District (LACFCD) is the Lead Agency for the proposed Enhanced Watershed Management Programs (EWMPs) Environmental Impact Report. The Los Angeles County Flood Control Act was adopted by the State Legislature in 1915 and established the LACFCD and empowered it to provide flood risk management, water conservation, and recreation and aesthetic enhancement within its boundaries. The LACFCD, the County of Los Angeles, and 84 incorporated cities within Los Angeles County (collectively referred to as Permittees) are covered under a Municipal Separate Storm Sewer System (MS4) Permit (Order No. R4-2012-0175; National Pollutant Discharge Elimination System [NPDES] Permit No. CAS004001) for the discharge of urban runoff to waters of the United States. The purpose of the MS4 Permit is to ensure Permittees are not causing or contributing to exceedances of water quality objectives or impairments of beneficial uses in the receiving waters of the Los Angeles region.

The 2012 MS4 Permit for Los Angeles County gives Permittees the option of implementing an innovative approach to MS4 Permit compliance through development of EWMPs. The LACFCD, along with participating Permittees, has opted to exercise this option and has submitted 12 separate Notices of Intent (NOIs) for the development of 12 EWMPs in their respective watershed groups to the Los Angeles Regional Water Quality Control Board (LARWQCB). The intent of the EWMP is to comprehensively evaluate opportunities for collaboration on multi-benefit regional projects that retain non-stormwater runoff and also address flood control and/or water supply within the participating Permittees' collective jurisdictional boundaries. The LARWQCB is responsible for approval of the EWMPs in compliance with the MS4 Permit. Implementation of the EWMPs would occur following approval by the LARWQCB.

The primary goals and objectives of the EWMPs are:

- To collaborate among agencies (Permittee jurisdictions) across the watershed to promote more cost-effective and multi-beneficial water quality improvement projects to comply with the MS4 Permit;
- To develop watershed-wide EWMPs that will, once implemented, remove or reduce pollutants from dry- and wet-weather urban runoff in a cost-effective manner; and
- To reduce the impact of stormwater and non-stormwater on receiving water quality.

Following the adoption of the MS4 permit by the RWQCB, Permittees in each EWMP area formed Watershed Management Groups (WMGs) to collaborate on the development of EWMPs. The proposed program includes several watershed management groups of Los Angeles County, covering the following EWMP areas: Ballona Creek, Beach Cities, Dominguez Channel, Malibu Creek, Marina del Rey, North Santa Monica Bay, Palos Verdes Peninsula, Rio Honda/San Gabriel River, Santa Monica Bay, Upper Los Angeles River, Upper San Gabriel River, and Upper Santa Clara River.

Notice of Preparation

Pursuant to Section 15082 of *CEQA Guidelines*, the lead agency is required to send a Notice of Preparation (NOP) stating that an EIR will be prepared to the State Office of Planning and Research (OPR), responsible and trustee agencies, and federal agencies involved in funding or approving the project. The NOP must provide sufficient information in order for responsible agencies to make a meaningful response. At a minimum, the NOP must include a description of the project, location of the project, and probable environmental effects of the project (*CEQA Guidelines*, Section 15082(a)(1)). Within 30 days after receiving the NOP, responsible and trustee agencies and OPR shall provide the lead agency with specific detail about the scope and content of the environmental information related to that agency's area of statutory responsibility that must be included in the draft EIR (*CEQA Guidelines*, Section 15082(b)).

A Notice of Preparation (NOP) was published by the LACFCD on August 29, 2014. The NOP was circulated to federal, state, and local agencies, as well as other interested parties, for a period of 30 days. The NOP was made available in print and electronic form, and the LACFCD accepted comments on the NOP for a 30-day period, closing on September 29, 2014. In addition, an email notification regarding the availability of the NOP was sent to over 700 interested EWMP stakeholders. Reports of email notification deliveries and bounce-backs are located in Attachment 3. A lack of comments from interested parties prompted LACFCD to extend the public comment period an additional 30 days; it ultimately closed on October 29, 2014. Additionally, the LACFCD posted a Twitter message regarding the comment period extension, and uploaded a recording of the Scoping Meeting Presentation to the project website, to augment the public outreach activities. The NOP was also made available on the project website: www.LACoH2Osheds.com. The NOP discussed the purpose of the EWMPs and their management strategies, identified the EWMP Study Areas, and provided a brief and preliminary list of environmental issue areas that could be impacted.

Table 1-1 provides a list of the commenters that sent comments on the NOP. The comment letters are located in Attachment 9.

**TABLE 1-1
NOP COMMENTERS**

| | Date | Name | Organization |
|----|------------|------------------------|--|
| 1 | 10/16/2014 | Enrique Huerta | At-Large Stakeholder (Downey, CA) |
| 2 | 10/23/2014 | Enrique Huerta | At-Large Stakeholder (Downey, CA) |
| 3 | 10/28/2014 | George Ball | Citizen |
| 4 | 10/29/2014 | Jane Williams | Los Angeles County Arboretum |
| 5 | 10/27/2014 | Kenneth Hill | Los Angeles County Arboretum Foundation, President |
| 6 | 10/23/2014 | Marsha Perez | Citizen, Los Angeles County Arboretum |
| 7 | 09/29/2014 | Rex Frankel | Ballona Ecosystem Education Project, Director |
| 8 | 10/29/2014 | Rex Frankel | Ballona Ecosystem Education Project, Director |
| 9 | 10/29/2014 | Tom Williams | Sierra Club, Water Committee |
| 10 | 10/08/2014 | Elizabeth Byrne Debreu | Los Angeles Arboretum Foundation |
| 11 | 09/29/2014 | Dianna Watson | Department of Transportation |
| 12 | 09/24/2014 | Deirdre West | Metropolitan Water District |

| | Date | Name | Organization |
|----|-------------|--------------------|--------------------------------|
| 13 | 09/25/2014 | Katy Sanchez | NAHC |
| 14 | 09/29/2014 | Douglas Fay | Citizen |
| 15 | 09/29/2014 | Donna Murray | Citizen |
| 16 | 09/29/2014 | Joyce Dillard | Citizen |
| 17 | 10/03/2014 | Patricia McPherson | Grassroots Coalition |
| 18 | 10/14/2014 | Jane Florentinus | Citizen |
| 19 | 10/29/2014 | Dale Carter | Arboretum volunteer and docent |
| 20 | 08/29/2014 | Scott Morgan | State Clearinghouse |

Scoping Meetings

Pursuant to *CEQA Guidelines* Section 15083, the LACFCD held three public scoping meetings on September 9, 10, and 15 of 2014 to receive comments on the NOP. The purpose of the meetings was to present the proposed EWMPs to the interested stakeholders and receive public input regarding the proposed scope of the PEIR analysis. Attendees were provided an opportunity to voice comments or concerns regarding potential effects of the program. The Scoping Meeting Presentation (Attachment 4), Sign-In Sheets (Attachment 5), and summary of verbal comments made at the meetings (Attachment 6) are found in this report.

The next formal opportunity for the public to comment on the proposed project will occur when the Draft PEIR is distributed for a 45-day review period, anticipated to occur between January and March of 2015.

Attachments to this Report

This Scoping Report contains documents pertinent to the scoping process. The following items are included:

- Attachment 1: Notice of Preparation
- Attachment 2: Notice of Completion
- Attachment 3: Summary of NOP Availability Emails
- Attachment 4: Scoping Meeting Presentation
- Attachment 5: Scoping Meeting Sign-In Sheets
- Attachment 6: Scoping Meeting Public Comments
- Attachment 7: State Clearinghouse Distribution of NOP
- Attachment 8: Comment Period Extension Letter
- Attachment 9: Public Comment Letters Received

Attachment 1
Notice of Preparation





ORIGINAL FILED

AUG 29 2014

LOS ANGELES COUNTY CLERK

Notice of Preparation

Date: August 29, 2014

To: California Office of Planning and Research, Responsible and Trustee Agencies and Interested Parties

Subject: Notice of Preparation of a Draft Program Environmental Impact Report

Project: Enhanced Watershed Management Programs

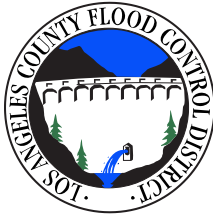
Lead Agency: Los Angeles County Flood Control District

Review Period: August 29, 2014 through September 29, 2014

The Los Angeles County Flood Control District (LACFCD) will be the Lead Agency and will prepare a Program Environmental Impact Report (PEIR) for the project identified in this notice. We need to know the views of you or your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. This Notice of Preparation (NOP) has been prepared to notify agencies and interested parties that the LACFCD is beginning preparation of a PEIR pursuant to the California Environmental Quality Act (CEQA) for its proposed Enhanced Watershed Management Programs (EWMPs, or "program").

The Los Angeles County Flood Control Act was adopted by the State Legislature in 1915 and established the LACFCD and empowered it to provide flood risk management, water conservation, and recreation and aesthetic enhancement within its boundaries. The LACFCD is governed as a separate entity by the Board of Supervisors of the County of Los Angeles and is operated by the County's Department of Public Works. The LACFCD encompasses more than 3,000 square miles, 85 cities, and approximately 2.1 million land parcels. The LACFCD, the County of Los Angeles, and 84 incorporated cities within Los Angeles County (collectively referred to as Permittees) are covered under a Municipal Separate Storm Sewer System (MS4) Permit (Order No. R4-2012-0175; National Pollutant Discharge Elimination System [NPDES] Permit No. CAS004001) for the discharge of urban runoff to waters of the United States. The purpose of the MS4 Permit is to ensure Permittees are not causing or contributing to exceedances of water quality objectives or impairments of beneficial uses in the receiving waters of the Los Angeles region.

The 2012 MS4 Permit for Los Angeles County gives Permittees the option of implementing an innovative approach to Permit compliance through development of EWMPs. The LACFCD and participating Permittees have opted to exercise this option and have submitted 12 separate Notices of Intent (NOIs) for the development of 12 EWMPs in their respective watershed groups to the Los Angeles Regional Water Quality Control Board (LARWQCB). The LARWQCB is responsible for approval of the EWMPs in compliance with the MS4 Permit. Implementation of the EWMPs would occur following approval by the LARWQCB. The preparation of the 12 separate EWMPs will be a collective effort among the LACFCD and the applicable agencies in each respective EWMP. The 12 EWMPs will vary for each watershed group, but will generally provide the opportunity for Permittees to customize their stormwater programs to achieve compliance with applicable receiving water limitations (RWLs) and water-quality-based effluent limits (WQBELs) in accordance with the MS4 Permit through implementation of stormwater best management practices (BMPs) or watershed control measures. BMPs vary in function and type, with each BMP providing unique design characteristics and benefits from implementation. The overarching goal of BMPs in the EWMP is to reduce the impact of stormwater and non-stormwater on receiving water



Notice of Preparation

Date: August 29, 2014

To: California Office of Planning and Research, Responsible and Trustee Agencies and Interested Parties

Subject: Notice of Preparation of a Draft Program Environmental Impact Report

Project: Enhanced Watershed Management Programs

Lead Agency: Los Angeles County Flood Control District

Review Period: August 29, 2014 through September 29, 2014

The Los Angeles County Flood Control District (LACFCD) will be the Lead Agency and will prepare a Program Environmental Impact Report (PEIR) for the project identified in this notice. We need to know the views of you or your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. This Notice of Preparation (NOP) has been prepared to notify agencies and interested parties that the LACFCD is beginning preparation of a PEIR pursuant to the California Environmental Quality Act (CEQA) for its proposed Enhanced Watershed Management Programs (EWMPs, or "program").

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quality and address the water quality priorities as defined by the MS4 Permit. The development of each EWMP will involve the evaluation and selection of multiple BMP types, including nonstructural (institutional) and distributed, centralized, and regional structural watershed control measures, that will be implemented to meet compliance goals and strategies under the 2012 MS4 Permit.

The LACFCD, as a regional agency charged with conserving stormwater for use in our local water supply, has a vested interest in increasing opportunities for stormwater capture and groundwater recharge. The LACFCD has flood control infrastructure in each of the EWMP areas and is participating in all 12 EWMPs. The LACFCD will be working with the applicable Permittees and other stakeholders in all 12 EWMP watersheds to develop the EWMPs, which will be implemented by the Permittees that have jurisdiction within each EWMP area. The Permittees implementing the projects defined in the EWMPs, or "implementing agencies," will vary between EWMPs and individual projects. The LACFCD will be an implementing agency only on those projects for which it has been identified in an EWMP as a responsible implementing party.

Project Location: The proposed program would be located in several watersheds of Los Angeles County and would include the following enhanced watershed management groups: Ballona Creek, Beach Cities, Dominguez Channel, Malibu Creek, Marina del Rey, North Santa Monica Bay Coastal Watersheds (NSMBCW), Palos Verdes Peninsula, Rio Hondo/San Gabriel River Water Quality Group (RH/SGRWQG), Santa Monica Bay, Upper Los Angeles River, Upper San Gabriel River, and Upper Santa Clara River. The project area is indicated in Figure 1.

Broad Range of Potential Benefits from EWMPs: If implemented, the proposed EWMP-generated benefits would include:

- Improved Water Quality
- Reduction in Impairment of Water Bodies for Designated Beneficial Uses
- Promotion of Water Conservation and Supply
- Enhanced Recreation Opportunities
- Support for Public Education Opportunities
- Improved Local Aesthetics
- Management of Flood Risks

Public Comments: The LACFCD is soliciting the views of interested persons and agencies as to the scope and content of the environmental information to be evaluated in the PEIR. In accordance with CEQA, agencies are requested to review the project description in this NOP and provide their comments on environmental issues related to the statutory responsibilities of the agency. The PEIR will be used by LACFCD's governing Board, the Los Angeles County Board of Supervisors, when considering approval of the proposed EWMPs as well as for any related discretionary approvals.

Due to the time limits mandated by state law, all comments to the NOP are due no later than September 29, 2014. Please send your comments to the address shown below. Include a return address or email address and a contact name in your agency with your comments.

Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803
(626) 300-3298
gbegell@dpw.lacounty.gov

This NOP and other PEIR information, as it becomes available, can be accessed at:
www.LACoH2Osheds.com

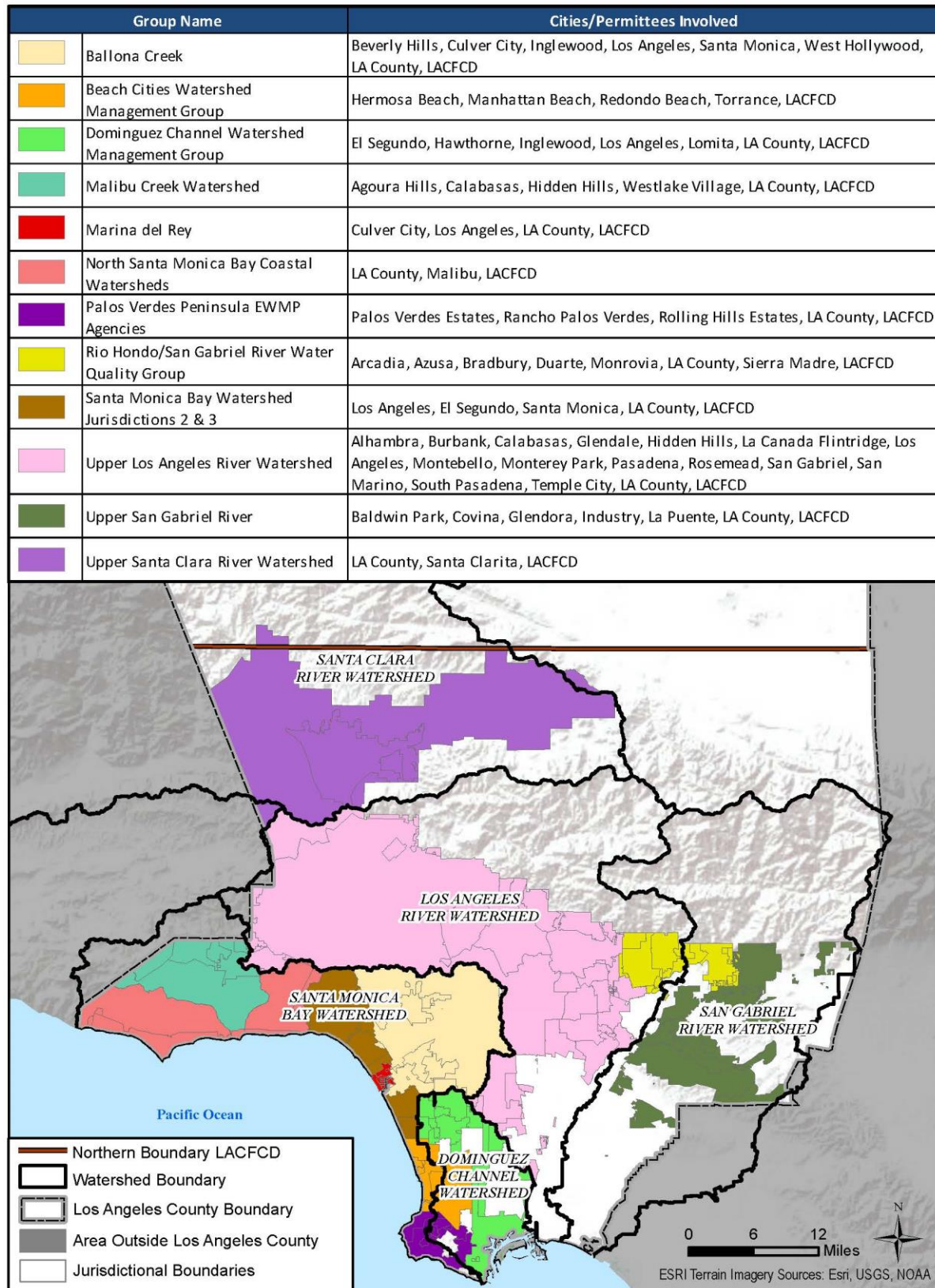
Scoping Meetings: Three scoping meetings will be held to receive public comments regarding the scope and content of the PEIR. The scoping meetings will include a brief presentation providing an overview of the proposed program and the CEQA process. After the presentation, oral comments will be accepted. Written comment forms will be supplied for those who wish to submit comments in writing at the scoping meeting. Written comments also may be submitted anytime during the NOP review period. The scoping meetings will be held as follows:

DATE: Tuesday, September 9, 2014
TIME: 6:00 P.M.
LOCATION: Chace Park Community Room TBD
13650 Mindanao Way
Marina del Rey, CA 90292

DATE: Wednesday, September 10, 2014
TIME: 6:00 P.M.
LOCATION: County of Los Angeles Department of Public Works
900 South Fremont Avenue
First Floor Conference Room C
Alhambra, CA 91803

DATE: Monday, September 15, 2014
TIME: 6:30 P.M.
LOCATION: K Dalton Room
Community Center
119 W Palm Ave
Monrovia, CA 91016

Figure 1: Overview EWMP Groups



1. Introduction

The LACFCD along with other applicable Permittees have submitted NOIs to the LARWQCB to develop EWMPs for 12 watershed groups, in accordance with the 2012 MS4 Permit, Order No. R4-2012-0175. The LARWQCB is responsible for approval of the final EWMPs in compliance with the MS4 Permit. Implementation of the EWMPs would occur following approval of the final plan. To begin preparing the EWMPs, the Permittees collaborated on, developed, and submitted Draft Work Plans to the LARWQCB, outlining the proposed approach to preparation of each of their respective EWMPs. The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach. The EWMPs will also evaluate multi-benefit regional projects that will retain (through infiltration or capture and reuse) the stormwater quality design volume (85th percentile storm for 24 hours) for the runoff from the contributing drainage area.

The proposed project includes the potential nonstructural (institutional) and distributed, centralized, and regional structural watershed control measures described in the Draft Work Plans and detailed in the EWMPs currently under preparation. These measures will be evaluated in the PEIR. The PEIR will provide a program-level assessment of the overall permit compliance effort, focusing particularly on the structural watershed control measures proposed in each of the 12 EWMP areas.

1.1 Project Location

The proposed program includes several watershed management groups of Los Angeles County, which include the following EWMP groups: Ballona Creek, Beach Cities, Dominguez Channel, Malibu Creek, Marina del Rey, North Santa Monica Bay Coastal Watersheds (NSMBCW), Palos Verdes Peninsula, Rio Hondo/San Gabriel River Water Quality Group (RH/SGRWQG), Santa Monica Bay, Upper Los Angeles River, Upper San Gabriel River, and Upper Santa Clara River. The geographic scope covered by each of these 12 EWMPs is described in further detail below and shown in Figure 1.

- Ballona Creek – The Ballona Creek EWMP area covers the Ballona Creek watershed. The Permittees within this EWMP are the Cities of Beverly Hills, West Hollywood, Los Angeles, Inglewood, Culver City, Santa Monica, and West Hollywood; County of Los Angeles; and LACFCD.
- Beach Cities – The Beach Cities EWMP area covers portions of three watersheds: Santa Monica Bay Watershed Jurisdictional Group (SMB JG) 5 & 6, Dominguez Channel Watershed, and Machado Lake Watershed. The Permittees within this EWMP are the Cities of Redondo Beach, Manhattan Beach, Hermosa Beach, and Torrance; and the LACFCD.
- Dominguez Channel – The Dominguez Channel EWMP area covers portions of three watersheds: Dominguez Channel Watershed, the Machado Lake Watershed, and the Los Angeles/Long Beach Harbors Watershed. The Permittees within this EWMP are the Cities of El Segundo, Hawthorne, Inglewood, Lomita, and Los Angeles; County of Los Angeles; and the LACFCD.
- Malibu Creek – The Malibu Creek Watershed (MCW) EWMP area covers the majority of the MCW. The Permittees within this EWMP are the Cities of Agoura Hills, Calabasas, Hidden Hills, , and Westlake Village; County of Los Angeles; and the LACFCD.

- Marina del Rey – The Marina del Rey EWMP area covers the Marina del Rey Watershed. The Permittees within this EWMP are the Cities of Los Angeles and Culver City; County of Los Angeles; and LACFCD.
- North Santa Monica Bay – The NSMBCW EWMP area covers the SMB JG 1, SMB JG 4, and a portion of Malibu Creek within the City of Malibu’s borders. The Permittees within this EWMP are the City of Malibu; County of Los Angeles; and LACFCD.
- Palos Verdes Peninsula – The Palos Verdes Peninsula watershed management area covers most of the SMB JG7, the Los Angeles Harbor subwatershed, and the Machado Lake subwatershed. The Permittees within this EWMP are the Cities of Rancho Palos Verdes, Palos Verdes Estates, and Rolling Hills Estates; County of Los Angeles; and LACFCD.
- Rio Hondo/San Gabriel River – The RH/SGRWQG EWMP area covers portions of the Los Angeles and San Gabriel River watersheds. The Permittees within this EWMP are the Cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, and Sierra Madre; County of Los Angeles; and LACFCD.
- Santa Monica Bay – The Santa Monica Bay EWMP area covers the central region of the Santa Monica Bay Watershed (SMB JG2 and SMB JG3) and includes the urbanized Dockweiler and Santa Monica subwatersheds, as well as natural open space located in the Castle Rock, Pulga Canyon, Temescal Canyon, and Santa Monica Canyon subwatersheds. The Permittees within this EWMP include the Cities of Los Angeles, Santa Monica, and El Segundo; County of Los Angeles; and LACFCD.
- Upper Los Angeles River – The Upper Los Angeles River EWMP area covers the upper reaches of the Los Angeles River Watershed. The Permittees within this EWMP are the Cities of Alhambra, Burbank, Calabasas, Glendale, Hidden Hills, La Cañada Flintridge, Los Angeles, Montebello, Monterey Park, Pasadena, Rosemead, San Gabriel, San Marino, South Pasadena, and Temple City; County of Los Angeles; and LACFCD.
- Upper San Gabriel River – The Upper San Gabriel River EWMP area covers portions of the San Gabriel River Watershed. The Permittees within this EWMP are the Cities of Baldwin Park, Covina, Glendora, Industry, and La Puente; County of Los Angeles; and LACFCD.
- Upper Santa Clara River – The Upper Santa Clara River EWMP area covers the Upper Santa Clara River Watershed. The Permittees within this EWMP are the City of Santa Clarita; County of Los Angeles; and LACFCD.

2. Background

2.1 Stormwater/Water Quality

MS4 discharges consist of stormwater and non-stormwater generated from municipal land uses that are ultimately discharged into surface waters throughout the region. The MS4 system includes curbs and gutters, man-made channels, catch basins, and storm drains throughout the Los Angeles region. Discharges may adversely affect receiving surface water quality with pollutants such as bacteria, nutrients (nitrogen and phosphorus), aluminum, copper, lead, zinc, diazinon, and cyanide. Aquatic toxicity, particularly during wet weather, is also a concern. Stormwater and non-stormwater discharges of debris and trash are also a pervasive water quality problem in the Los Angeles region. Pollutants in stormwater and non-stormwater may have damaging effects on both human health and aquatic ecosystems.

Water quality assessments conducted by the LARWQCB have identified impairment of beneficial uses of water bodies in the Los Angeles region possibly caused or contributed to by pollutant loading from municipal stormwater and non-stormwater discharges. The MS4 Permit described below is designed to reduce pollutant loads into local surface waters.

2.2 Total Maximum Daily Loads

The federal Clean Water Act (CWA), Section 303(d), requires states to identify waters that do not meet water quality standards despite the treatment by pollution-control technology. States are required not only to identify these “water quality limited segments” but also to prioritize such waters for the purpose of developing Total Maximum Daily Loads (TMDLs). A TMDL is defined as the “sum of the individual waste load allocations (WLAs) for point sources and load allocations for nonpoint sources and natural background” (40 CFR 130.2), such that the capacity of the water body to assimilate constituent loads (the loading capacity) is not exceeded. A TMDL represents an amount of pollution that can be released into a specific water body without causing a decline in water quality and impairment of beneficial uses. The TMDL also allocates the loads among current and future pollutant sources to the water body and forms the basis for WQBELs and RWLs assigned in NPDES permits. LARWQCB and United States Environmental Protection Agency (USEPA) have established 33 TMDLs that identify Los Angeles County MS4 discharges as one of the pollutant sources causing or contributing to these water quality impairments.

2.3 MS4 Permit

On November 8, 2012, the LARWQCB adopted the fourth NPDES MS4 Permit (Order No. R4-2012-0175) for discharges from the MS4 within the coastal watersheds of Los Angeles County. The MS4 Permit became effective on December 28, 2012. The 2012 MS4 Permit establishes the waste discharge requirement for stormwater and non-stormwater discharges within the watersheds of Los Angeles County. The MS4 Permit identifies conditions, requirements, and programs that municipalities must comply with to protect regional water resources from adverse impacts associated with pollutants in stormwater and urban runoff. The MS4 Permit contains effluent limitations, RWLs, Minimum Control Measures (MCMs), TMDL provisions, and outlines the process for developing watershed management programs, including the EWMP.

The 2012 MS4 Permit includes provisions that allow Permittees to voluntarily choose to implement an EWMP to achieve permit compliance with RWLs. The intent of the EWMP is to comprehensively evaluate opportunities, within the participating Permittees' collective jurisdictional boundaries, for collaboration among Permittees and other partners on multi-benefit regional projects that, wherever feasible, retain non-stormwater runoff and also address flood control and/or water supply. Twelve EWMP groups have formed to implement a collaborative approach to meeting the requirements of the 2012 MS4 Permit.

3. Enhanced Watershed Management Plans

The MS4 Permittees listed in Figure 1 submitted 12 NOIs for the development of 12 EWMPs to the LARWQCB. The 12 NOIs were approved by the LARWQCB. The 12 EWMPs being developed in Los Angeles County for the applicable watersheds have been a collaborative effort by the various EWMP agencies.

The EWMPs provide for their respective areas a comprehensive stormwater management plan that optimizes the stormwater and financial resources under the stewardship of the EWMP groups. The EWMPs include multi-benefit stormwater management projects that may also provide environmental, aesthetic, recreational, water supply, and/or other community enhancements in a cost-effective manner.

To begin preparing the EWMPs, the Permittees collaborated on, developed, and submitted Draft Work Plans to the LARWQCB, outlining the proposed approach to preparation of each of their respective EWMPs. The EWMP Work Plans establish the basis for the EWMPs. The EWMP Draft Work Plans describe the path that MS4 Permittees propose to complete the Watershed Management Program requirements of the 2012 MS4 Permit.

In accordance with the provisions of the MS4 permit, the work plans describe the following steps to EWMP development:

1. Identification of water quality priorities, including evaluation of existing water quality conditions, classification of pollutants, assessment of known and suspected pollutant sources in the watershed, and prioritization of water quality issues in the watershed
2. Characterization of existing and potential control measures within the watershed
3. Addressing the approach to incorporate reasonable assurance analysis (RAA) in the optimization of watershed control measures

The LARWQCB is responsible for approval or denial of the EWMPs in compliance with the MS4 Permit. Implementation of the EMWPs would occur following approval by the LARWQCB.

4. EWMP Watershed Control Measures

The MS4 Permit requires Permittees to identify strategies, control measures, and BMPs that will be implemented. Improvements to water quality will be achieved through implementation of watershed control measures that consist of both structural and nonstructural BMPs. BMPs vary in function and type, with each BMP providing unique design characteristics and benefits from implementation. Opportunities for BMP implementation are driven by locations where BMPs are feasible/desirable. The overarching goal of BMPs in the EWMPs is to reduce the impact of stormwater and non-stormwater on receiving water quality and to address water conservation and the water quality priorities. The development of the

EWMPs will involve the evaluation and selection of multiple BMP types, as described in the following pages.

4.1 Structural BMPs

Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage, as follows:

- Infiltration – Runoff is directed to percolate into the underlying soils. Infiltration generally reduces the volume of runoff and increases groundwater recharge.
- Water quality treatment – Pollutants are removed through various unit processes, including filtration, settling, sedimentation, sorption, straining, and biological or chemical transformations.
- Storage – Runoff is captured, stored (detained), and slowly released into downstream waters. Storage can reduce the peak flow rate from a site, but does not directly reduce runoff volume.

There are three categories of structural BMPs—regional, centralized, and distributed; they are defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit. Structural BMPs fall under a variety of subcategories that correspond to their function and water quality benefit. Each of these three categories is described below.

4.1.1 Regional Structural BMPs

“Regional EWMP projects” are defined by the MS4 Permit as multi-benefit regional projects that, wherever feasible, retain all non-stormwater runoff and all stormwater runoff from the 85th percentile, 24-hour storm event for the contributing drainage area, while also achieving other benefits such as flood control and/or water supply. Examples of regional structural BMPs include:

- Infiltration BMPs
 - Surface Infiltration BMPs (Infiltration Basins, Infiltration Trenches, Infiltration Galleries, and Bioretention-implemented as single or multiple types)
 - Multi-Directional Infiltration BMPs (Dry Wells, Hybrid Bioretention, and Dry Wells)
- Detention Basins (promote settling out of larger particles)
- Capture and Use BMPs (underground cisterns, storage, and use as irrigation)

Regional BMPs include infiltration facilities that promote groundwater recharge and detention facilities that encourage settling of larger particles in stormwater flows. Infiltration and detention regional BMPs can be either constructed as open-surface basins or subsurface galleries. Capture and Use BMPs collect and use stormwater where applicable for purposes such as irrigation. All of these BMP types must retain the required design storm volume without release into the MS4 or receiving waters.

Opportunities for Regional BMPs will be identified and evaluated within and across subwatersheds, with focus on the multi-benefit potential for capture and reuse of wet-weather flows within variable drainage areas. Availability of public land will be the first criteria for identifying the location and type of BMP. Potential project locations may include areas with open spaces, whether they are within parks, large parking lots, or vacant spaces.

Regional BMPs that may be included in the EWMPs will be identified and described further in the PEIR.

4.1.2 Centralized Structural BMPs

Centralized structural BMPs are constructed structural practices intended to treat runoff from a contributing area of multiple parcels. Generally, centralized structural BMPs are installed on large public parcels or adjacent to storm drain outfalls and receiving waters. Some examples of centralized structural BMPs include the following:

- Bioinfiltration BMPs (Bioretention with underdrain, bioinfiltration, highflow biotreatment, and raised underdrain, vegetated swales, filter strips—implemented as single or multiple types)
- Constructed wetlands (aboveground and belowground)
- Treatment BMPs/Low-flow diversion
- Creek/river/floodplain/estuary restoration

4.1.3 Distributed Structural BMPs

Distributed structural BMPs are constructed structural practices intended to treat runoff close to the source and are typically implemented at a single- or few-parcel level. The following list includes common distributed BMPs that can be implemented at the parcel level:

- Site scale detention (dry/wet detention ponds, detention chambers)
- Green infrastructure/Low Impact Development (LID)
 - Biofiltration
 - Bioretention
 - Porous/permeable pavers
 - Green streets
 - Infiltration BMPs
 - Bioswales/buffer strips
 - Planter boxes
 - Rainfall harvesting (green roofs, rain barrels, and cisterns)
- Flow-Through Treatment BMPs
 - Media/cartridge filters
 - High-flow biotreatment
- Source Control Treatment BMPs
 - Catch basin inserts/screens
 - Hydrodynamic separators
 - Gross solids removal devices (GSRDs)
 - Low flow diversions

4.2 Institutional BMPs/ Non-Structural Control Measures

These are policies, actions, and activities which are intended to prevent pollutants from entering stormwater runoff, thus eliminating the source of the pollutants. Most institutional BMPs are implemented to meet Minimum Control Measure (MCM) requirements in the MS4 permit; MCMs are considered a subset of institutional BMPs. MCMs do not involve construction of facilities that physically remove pollutants, but may involve costs associated with the procurement and installation of items such as signage or spill response kits. The six categories of MCMs outlined in the MS4 permit are as follows:

- Development Construction Program
- Planning and Land Development Program
- Industrial Commercial Facilities Control Program
- Illicit Connections and Illicit Discharges Detection and Elimination Program
- Public Agency Activities Program
- Public Information and Participation Program

Nonstructural BMPs or Institutional Controls are often implemented as programs or strategies which seek to prevent and/or reduce runoff and/or pollution close to the source. Nonstructural BMPs include but are not limited to:

- Irrigation control (runoff reduction) and water-efficient landscaping
- Brake pad replacement
- Covered trash receptacles
- Replacement of lead in wheel weights, or reduction in the copper content of brake pads
- Pet waste cleanup stations
- Street sweeping
- Catch basin cleaning
- Downspout disconnect program

The MS4 permit allows Permittees to customize MCMs to address high-priority water quality goals within their watersheds. Customization can range from eliminating an MCM (with the exception of the Planning and Land Development Program requirement), proposing actions within an MCM to target specific water quality issues, and increasing or decreasing activities within an MCM (with appropriate justification).

Because the LACFCD does not have jurisdictional authority for ordinance and code enactment or enforcement, they are limited in application of MCMs for Public Information and Participation Programs.

5. Potential Environmental Impacts

The LACFCD is considering having the PEIR evaluate the following preliminary listing of potential environmental issues. The environmental issues to be addressed will be finalized after the close of the public comment period and comments on the NOP are received.

The PEIR will focus on potential effects that could result from implementation of the projects and management actions identified in each EWMP. The PEIR will assess the physical changes to the environment that would likely result from the construction and operation of EWMP projects, including direct, indirect, and cumulative impacts. Potential impacts are summarized below. The PEIR will identify mitigation measures if necessary to minimize potentially significant impacts of each EWMP. The PEIR is anticipated to evaluate, at a minimum, the following preliminary listing of environmental issues.

Aesthetics

Potential direct and indirect impacts could occur both during construction and after the proposed EWMP facilities are built and operating. Potential issues associated with aesthetics in relation to the proposed EWMP BMPs could include obstruction of high-quality or important views during either construction or operation of EWMP BMPs, impacts to local character, or construction of facilities incompatible with local recreation facilities or open-space areas. The PEIR will identify the potential visible physical changes to the natural and man-made environment, including the addition of new BMPs into the viewshed (temporary and permanent) and the removal of other components from the view (i.e., blocking of views). The PEIR will also identify the potential effects of the proposed EWMP BMPs on the existing light, glare, shadow, and shade environments.

Air Quality

Construction and operation of EWMP projects could cause air emissions. Air emissions could result from construction equipment exhaust, ground disturbance during construction, material hauling, construction employee-commute travel, vehicle operational maintenance trips, and vehicle trips associated with any increases in employment. Operation of some of the proposed EWMP facilities may potentially generate emissions associated with energy use. The PEIR will evaluate the effects of construction and operational activities on air quality and also will develop mitigation measures if necessary to reduce potential impacts.

Biological Resources

Implementation of the EWMP projects could occur within existing sensitive habitats. The projects could result in changes to wildlife habitat, disruption of natural movement corridors, fragmentation or isolation of wildlife habitats, and disturbance of sensitive species during construction or operation. In particular, reduced flows in downstream segments resulting from runoff retention could alter riparian and aquatic habitats. The PEIR will evaluate the potential for such facilities to impact biological resources and will also discuss local ordinances and state and federal regulations governing biological resources.

Cultural Resources

The proposed EWMP BMPs would require construction of structural BMPs which could be above and/or below ground. Issues regarding cultural resources during construction activities could include disturbance of known or unknown archeological sites, paleontological resources, and/or human remains where groundbreaking activities occur as well as disturbance or alteration of structures with historical importance. The PEIR will assess the potential effects of the proposed EWMP BMPs on cultural resources, including archaeological, paleontological, and Native American resources. Mitigation measures will be identified if necessary to reduce the level of impact where possible.

Geology, Soils, and Seismicity

Southern Los Angeles County is a seismically active region. The proposed EWMP BMPs would require construction of structural BMPs that could be subject to potential seismic and geologic hazards, including

ground shaking, liquefaction, soil stability conditions, soil erosion rates, expansive soils, and landslides. Policies provided in the County's General Plan and applicable standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects. The PEIR will identify mitigation measures if necessary to reduce potential adverse effects to proposed facilities.

Greenhouse Gas Emissions

Implementation of proposed EWMP BMPs could result in the generation of greenhouse gas (GHG) emissions associated with construction and operations. The PEIR will estimate construction-related emissions and long-term operational emissions, including total CO₂-equivalent emissions for evaluating the effects of GHGs. The PEIR will examine the project's effects on global climate change and evaluate consistency of the project with the State's GHG emissions reduction goals.

Hazards and Hazardous Materials

Excavation during construction of proposed EWMP BMPs could uncover contaminated soils or hazardous substances that pose a substantial hazard to human health or the environment. Construction activities could result in the release of hazardous materials. Potential hazards will be evaluated and assessed by reviewing the data collected by the California State Water Resources Control Board (SWRCB) GeoTracker and the California Department of Toxic Substances Control (DTSC) Envirostor databases. The policies provided in the County's General Plan and any standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects. The PEIR will evaluate the potential for EWMP projects to result in the release of hazardous materials. Mitigation measures will be proposed if necessary to reduce any significant effects of the project that may involve hazardous material issues to ensure that any hazards encountered during construction would be handled in accordance with applicable regulations.

Hydrology and Water Quality

Implementation of the proposed EWMP BMPs may change local drainage patterns at construction sites, which could affect the volume, quality, and rates of surface runoff that in turn could affect local surface water resources. Considered cumulatively, the proposed EWMP facilities may also change regional drainage patterns, which could affect the hydrology, hydraulics, and/or water quality of streams, rivers, and other receiving waters. The PEIR will identify relevant federal, state, and local regulations and agencies, including provisions of the federal Clean Water Act, the state Porter-Cologne Water Quality Control Act, and the permitting and regulatory authority of the RWQCB. The PEIR will identify stormwater quality protection measures required during construction and operation of proposed facilities. The PEIR also will evaluate potential impacts to flood control capacity and develop mitigation strategies if necessary to avoid significant impacts.

Implementation of the proposed EWMP BMPs would likely result in increased infiltration and recharge in various locations throughout the EWMP watersheds. Such activities could affect local groundwater levels and water quality. The PEIR will evaluate potential effects of increased storm water recharge and will identify mitigation measures if necessary to ensure that potentially necessary significant impacts are reduced or avoided.

Land Use and Recreation

Implementation of the proposed EWMP BMPs would include implementation of structural BMPs throughout the EWMP watershed areas. Issues associated with land use and planning could result from construction of new BMPs from the proposed EWMP. Issues associated with these components could

include compatibility with adjacent land uses or zoning designations, consistency with relevant land use policies, and access to adjacent land during new construction or repairs of existing flood control or recharge facilities. The PEIR will evaluate the compatibility of the proposed EWMP BMPs with existing and planned land uses within the EWMP watershed areas.

Noise

Implementation of the proposed EWMP BMPs would require implementation of structural BMPs that would potentially generate noise and vibration. Construction activities that could be a significant source of noise and vibrations include trucking operations, use of heavy construction equipment (e.g., graders, cranes, and frontend loaders), pile driving activities, and blasting. Fixed sources of noise may include pumps and motors at pump stations. Construction noise and vibration impacts related to the proposed EWMP facilities will be evaluated at a program level. The PEIR will recommend mitigation strategies to ensure that proposed EWMP projects implemented by local agencies comply with local noise policies and ordinances.

Population and Housing/Growth Inducement

Implementation of the proposed EWMP BMPs will include implementation of structural and nonstructural BMPs that would improve water quality and increase stormwater infiltration. The proposed EWMP BMPs are unlikely to affect population and housing or induce growth. In addition, construction of the proposed EWMP BMPs or alteration of current facilities is not anticipated to lead to displacement or interruption of operation of businesses during construction. The PEIR will, however, identify current population and employment projections and identify local planning jurisdictions with the authority to approve growth and mitigate secondary effects of growth.

Public Services

Implementation of the proposed EWMP BMPs is unlikely to affect demand for public services, or, by itself, to require new or expanded facilities for public service providers. Potential issues related to the construction and operation of the proposed EWMP facilities include disruption or impediment of fire, police, or other emergency services to areas/facilities where proposed EWMP facilities would be constructed or operated. However, the PEIR will assess the potential for the proposed EWMP BMPs to affect police and fire protection services, schools, parks, and recreational facilities, such that new or expanded buildings or structures may be required that would, in turn, affect the environment.

Traffic and Transportation

Construction of the proposed EWMP BMPs could affect traffic on local roadways as a result of vehicle trips associated with hauling of material and equipment, road closures and detours, increased demand for parking to serve construction workers, and increase in traffic hazards caused by construction activities. The PEIR will evaluate the potential for additional construction vehicles, lane closures, or road closures to impact traffic and circulation. The PEIR will identify mitigation strategies to reduce any potential effects.

Utilities and Energy

Potential issues related to the construction and operation of the proposed BMPs include the disruption or impediment of service to areas where the proposed BMPs would be constructed or operated. Existing and projected regional supplies, demands, and facilities will be described along with any existing constraints, deficiencies, or service issues for the proposed EWMP BMPs. The PEIR will evaluate the project's potential to affect utilities and will identify mitigation measures to minimize the effects.

Implementation of the proposed EWMP BMPs would also result in implementation of watershed control measures that may potentially increase the amount of energy required locally to operate some of these BMPs. The PEIR will evaluate potential energy consumption associated with implementation of structural and nonstructural BMPs.

Attachment 2
Notice of Completion



Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P. O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

| |
|-------------|
| SCH # _____ |
|-------------|

Project Title: Enhanced Watershed Management Programs (EWMP) Program EIR

Lead Agency: Los Angeles County Flood Control District (LACFCD) Contact Person: Gregg BeGell
Mailing Address: 900 South Fremont Avenue, 11th Floor Phone: (626) 300-3298
City: Alhambra Zip: 91803 County: Los Angeles

Project Location: County: Los Angeles City/Nearest Community: Greater Los Angeles Area

Cross Streets: Throughout Los Angeles County Zip Code: Other

Lat. / Long.: Other N/ Other W Total Acres: Various

Assessor's Parcel No.: Various throughout Los Angeles County Section: Various Twp.: Various Range: Various Base: Various

Within 2 Miles: State Hwys #: 1, 2, 19, 27, 47, 60, 90, 91, 101, 103, 107, 187 Waterways: Ballona Creek, Los Angeles River, San Gabriel River, Santa Clara River, Malibu Creek, Dominguez Channel, Santa Monica Bay and Marina del Rey

Airports: LAX, Burbank Highways: Throughout LA County Schools: Throughout LA County

RECEIVED

AUG 29 2014

STATE CLEARINGHOUSE

Document Type:

- CEQA: NOP Draft EIR NEPA: NOI Other: Joint Document
 Early Cons Supplement/Subsequent EIR EA Final Document
 Neg Dec (Prior SCH No.) Draft EIS Other
 Mit Neg Dec Other FONSI

Local Action Type:

- General Plan Update Specific Plan Rezone Annexation
 General Plan Amendment Master Plan Prezone Redevelopment
 General Plan Element Planned Unit Development Use Permit Coastal Permit
 Community Plan Site Plan Land Division (Subdivision, etc.)
 Other: MS4 Compliance Projects

Development Type:

- Residential: Units _____ Acres _____ Water Facilities: Type Stormwater MGD _____
 Office: Sq.ft. _____ Acres _____ Employees _____ Transportation: Type _____
 Commercial: Sq.ft. _____ Acres _____ Employees _____ Mining: Mineral _____
 Industrial: Sq.ft. _____ Acres _____ Employees _____ Power: Type _____ MW _____
 Educational _____ Waste Treatment: Type _____ MGD _____
 Recreational _____ Hazardous Waste: Type _____
 Other: _____

Project Issues Discussed in Document:

- | | | | |
|--|--|---|--|
| <input checked="" type="checkbox"/> Aesthetic/Visual | <input type="checkbox"/> Fiscal | <input checked="" type="checkbox"/> Recreation/Parks | <input checked="" type="checkbox"/> Vegetation |
| <input checked="" type="checkbox"/> Agricultural Land | <input checked="" type="checkbox"/> Flood Plain/Flooding | <input type="checkbox"/> Schools/Universities | <input checked="" type="checkbox"/> Water Quality |
| <input checked="" type="checkbox"/> Air Quality | <input type="checkbox"/> Forest Land/Fire Hazard | <input type="checkbox"/> Septic Systems | <input checked="" type="checkbox"/> Water Supply/Groundwater |
| <input checked="" type="checkbox"/> Archeological/Historical | <input type="checkbox"/> Geologic/Seismic | <input type="checkbox"/> Sewer Capacity | <input checked="" type="checkbox"/> Wetland/Riparian |
| <input checked="" type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Minerals | <input checked="" type="checkbox"/> Soil Erosion/Compaction/Grading | <input checked="" type="checkbox"/> Wildlife |
| <input type="checkbox"/> Coastal Zone | <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Solid Waste | <input type="checkbox"/> Growth Inducing |
| <input checked="" type="checkbox"/> Drainage/Absorption | <input checked="" type="checkbox"/> Population/Housing Balance | <input checked="" type="checkbox"/> Toxic/Hazardous | <input checked="" type="checkbox"/> Land Use |
| <input type="checkbox"/> Economic/Jobs | <input checked="" type="checkbox"/> Public Services/Facilities | <input checked="" type="checkbox"/> Traffic/Circulation | <input checked="" type="checkbox"/> Cumulative Effects |
| <input checked="" type="checkbox"/> Other Cultural Resources | | | |

Present Land Use/Zoning/General Plan Designation:

Various land uses throughout the County.

Project Description: *(please use a separate page if necessary)*

The development of the EWMP will involve the evaluation and selection of multiple watershed control measures or best management practices (BMP) types including non-structural and distributed, centralized and regional structural BMPs. These BMPs will be implemented to meet compliance goals and strategies under the 2012 MS4 Permit. Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage. There are three categories of structural BMPs, defined by the runoff area treated by the BMP and the required

retention volume in accordance with the Permit. "Regional EWMP projects" are defined by the MS4 Permit as multi-benefit regional projects that, wherever feasible, retain all non-storm water runoff and all storm water runoff from the 85th percentile, 24-hour storm event for the contributing drainage areas, while also achieving other benefits including flood control and/or water supply. These structural BMPs are defined as "regional" BMPs based on this Permit retention requirement. Example of regional structural BMPs include infiltration BMPs, detention basins and capture and use BMPs. Centralized structural BMPs capture and treat stormwater from a contributing area of multiple parcels, and include bio-infiltration BMPs, constructed wetlands, and creek/stream restoration projects. Generally, centralized BMPs are installed on large public parcels or adjacent to storm drain outfalls and receiving waters. Distributed structural BMPs are constructed structural practices intended to treat runoff close to the source and are typically implemented at a single- or few-parcel level.

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X". If you have already sent your document to the agency please denote that with an "S".

- | | |
|---|---|
| <input type="checkbox"/> Air Resources Board | <input type="checkbox"/> Office of Emergency Services |
| <input type="checkbox"/> Boating & Waterways, Department of | <input type="checkbox"/> Office of Historic Preservation |
| <input type="checkbox"/> California Highway Patrol | <input type="checkbox"/> Office of Public School Construction |
| <input type="checkbox"/> CalFire | <input checked="" type="checkbox"/> Parks & Recreation |
| <input checked="" type="checkbox"/> Caltrans District # 7 | <input type="checkbox"/> Pesticide Regulation, Department of |
| <input type="checkbox"/> Caltrans Division of Aeronautics | <input type="checkbox"/> Public Utilities Commission |
| <input type="checkbox"/> Caltrans Planning (Headquarters) | <input checked="" type="checkbox"/> Regional WQCB # 4 |
| <input type="checkbox"/> Central Valley Flood Protection Board | <input type="checkbox"/> Resources Agency |
| <input type="checkbox"/> Coachella Valley Mountains Conservancy | <input type="checkbox"/> S.F. Bay Conservation & Development Commission |
| <input type="checkbox"/> Coastal Commission | <input checked="" type="checkbox"/> San Gabriel & Lower L.A. Rivers and Mtns Conservancy |
| <input type="checkbox"/> Colorado River Board | <input type="checkbox"/> San Joaquin River Conservancy |
| <input type="checkbox"/> Conservation, Department of | <input checked="" type="checkbox"/> Santa Monica Mountains Conservancy |
| <input type="checkbox"/> Corrections, Department of | <input type="checkbox"/> State Lands Commission |
| <input type="checkbox"/> Delta Protection Commission | <input type="checkbox"/> SWRCB: Clean Water Grants |
| <input type="checkbox"/> Education, Department of | <input checked="" type="checkbox"/> SWRCB: Water Quality |
| <input type="checkbox"/> Energy Commission | <input type="checkbox"/> SWRCB: Water Rights |
| <input checked="" type="checkbox"/> Fish & Game Region # South Coast Region | <input type="checkbox"/> Tahoe Regional Planning Agency |
| <input type="checkbox"/> Food & Agriculture, Department of | <input checked="" type="checkbox"/> Toxic Substances Control, Department of |
| <input type="checkbox"/> General Services, Department of | <input type="checkbox"/> Water Resources, Department of |
| <input checked="" type="checkbox"/> Health Services, Department of | |
| <input type="checkbox"/> Housing & Community Development | <input checked="" type="checkbox"/> Other <u>County of Los Angeles, Board of Supervisors Dist 1, 2, 3, 4, 5</u> |
| <input type="checkbox"/> Integrated Waste Management Board | |

Local Public Review Period (to be filled in by lead agency)

Starting Date 8/29/2014 Ending Date 9/29/2014

Lead Agency (Complete if applicable):

| | |
|--|--|
| Consulting Firm: <u>Environmental Science Associates</u> | Applicant: <u>Los Angeles County Flood Control District (LACFCD)</u> |
| Address: <u>626 Wilshire Blvd.</u> | Address: <u>900 S Fremont Ave</u> |
| City/State/Zip: <u>Los Angeles/CA/90017</u> | City/State/Zip: <u>Alhambra/CA/91803</u> |
| Contact: <u>David Pohl</u> | Phone: <u>626-458-4300</u> |
| Phone: <u>(213) 599-4300</u> | |

Signature of Lead Agency Representative: *Angel N George* Date: 8/28/2014
 Authority cited: Section 21083, Public Resources Code. Reference: Section 21061, Public Resources Code.

Attachment 3
**Summary of NOP
Availability Emails**



| Email address - other | Email Lists | Source Name | Created At | Updated At | Opened At |
|---|-------------------------------------|--------------|------------------|-----------------|-------------------|
| llee@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/15/2014 9:46am |
| diane.marcussen@altadenatowncouncil.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/12/2014 6:03pm |
| alfredo.magallanes@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/12/2014 5:36pm |
| angeles.chapter@sierraclub.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/12/2014 5:11pm |
| srobinson@jlha.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/12/2014 12:36pm |
| rasmusjb@bv.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/11/2014 7:10pm |
| andrea.crumpacker@westonsolutions.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/11/2014 3:48pm |
| rlaveaga@cityofpasadena.net | LACFC EWMP PEIRS,MIG eNews External | | 10/10/2013 10:56 | 8/29/2014 14:55 | 9/11/2014 12:32pm |
| twest@carollo.com | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:55 | 9/11/2014 11:16am |
| bobbigold@ucla.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/10/2014 8:01pm |
| info@adtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/10/2014 8:00pm |
| atwater.richard@gmail.com | LACFC EWMP PEIRS,CWCB Updates | | 2/12/2013 13:54 | 8/29/2014 14:18 | 9/10/2014 5:37pm |
| dbloome@treepeople.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/10/2014 5:06pm |
| petra.schneider@netzero.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/10/2014 3:17pm |
| sandiaennis@castaicareatowncouncil.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/10/2014 2:22pm |
| tmm@arroyoseco.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/10/2014 12:36pm |
| greg.good@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/9/2014 7:50pm |
| cicwater@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/9/2014 12:46pm |
| mklee@jlha.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/9/2014 10:52am |
| tavalos@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/9/2014 10:23am |
| andyw@rpv.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 8:31pm |
| lenny@lcwstewards.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 7:11pm |
| tlee@cityofinglewood.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 6:54pm |
| maria.agustin@dot.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 4:07pm |
| environment@asnc.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 3:03pm |
| razz.berry@verizon.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 2:34pm |
| kcurtis@portla.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/8/2014 1:05pm |
| jthorsen@malibucity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 12:22pm |
| danielle.sevilla@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/8/2014 11:28am |
| davejohnson@sgvmwd.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/8/2014 9:44am |
| winter@theriverproject.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/6/2014 4:20pm |
| jsamson@larivercorp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/5/2014 9:08pm |
| jkitz@mountainstrust.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/5/2014 2:36pm |

First name

Black & Veatch
Weston Solutions

So CA Water Committee - Stormwater task force
TreePeople

Port of Los Angeles

The River Project

| | | | | | |
|--------------------------------------|-------------------------------|--------------|-----------------|-----------------|------------------|
| johng@sccwrp.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/5/2014 1:11pm |
| jgamble@lvmwd.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/5/2014 11:41am |
| pherzog@surfrider.org | LACFC EWMP PEIRS,CWCB Updates | | 2/12/2013 13:54 | 8/29/2014 14:18 | 9/4/2014 8:57pm |
| stevenmwilliams99@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 8:44pm |
| steve.williams@rcdsmm.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 8:44pm |
| jsk1.2007@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 8:37pm |
| jguerrer@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 7:20pm |
| mike@watershedhealth.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/4/2014 5:34pm |
| mvoong@waterboards.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/4/2014 5:25pm |
| dillardjoyce@yahoo.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 2:39pm |
| adrienne@southcoastbotanicgarden.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 1:57pm |
| christine.frey@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 1:31pm |
| elaine.jeng@redondo.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 12:38pm |
| ddolphin@cityofalhambra.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 12:28pm |
| mgalvez@jlha.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 1:52am |
| info@wearmdr.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/4/2014 1:10am |
| wetlandact@earthlink.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 5:35pm |
| afarassati@cityofcalabasas.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 5:26pm |
| rmechsner@westranchtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 5:18pm |
| hamid.tadayon@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 5:00pm |
| leclairj@cdmsmith.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/3/2014 4:17pm |
| sho@paramountcity.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 3:34pm |
| g.wolfberg@verizon.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 3:16pm |
| jhendra@rcdsmm.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 1:39pm |
| drennanmd@bv.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/3/2014 12:57pm |
| michael.scaduto@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 12:53pm |
| richard.haimann@hdrinc.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/3/2014 12:10pm |
| charlie.yu@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 12:04pm |
| amho@montereypark.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 11:17am |
| adelgado@fs.fed.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 2:27am |
| cstevens@rcdsmm.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/3/2014 1:47am |
| jpereira@cwecorp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:16pm |
| kjames@healthebay.org | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:18 | 9/2/2014 8:08pm |
| kharrel@cwecorp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 6:55pm |

Surf Rider

Council for Watershed Health
LARWQCB

CDM Smith

Black & Veatch

HDR

Heal the Bay

| | | | | | |
|-----------------------------------|--------------------------------------|--------------|------------------|-----------------|------------------|
| smoraleschoate@santafesprings.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 6:55pm |
| michael.affeldt@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 6:05pm |
| gold@ioes.ucla.edu | LACFC EWMP PEIRS,LAFCD Public Health | | 12/20/2012 17:29 | 8/29/2014 14:18 | 9/2/2014 5:57pm |
| education@coloradolagoon.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 5:34pm |
| editor@coloradolagoon.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 5:23pm |
| ajirik@portla.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 5:16pm |
| seth_riley@nps.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 5:10pm |
| mhall@glacvcd.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 5:09pm |
| lynn.rodriguez@ventura.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 5:06pm |
| douglaspfay@aol.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:50pm |
| bjensen@valleyconnect.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:48pm |
| blake@watershedhealth.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:37pm |
| info@rcdsmm.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:33pm |
| gosmena@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:29pm |
| victor.ruiz@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:13pm |
| csarabia@pvplc.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 4:07pm |
| davidthomas@vrsd.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 3:50pm |
| ewelina.mutkowska@ventura.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 3:06pm |
| friends@coloradolagoon.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 2:43pm |
| tpiasky@bialav.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 2:33pm |
| obrownson@larivercorp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 2:28pm |
| katy_delaney@nps.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 2:07pm |
| denise_kamradt@nps.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 1:55pm |
| barbara.romero@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 1:20pm |
| cgeorge@malibucity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 1:11pm |
| brai@cityofinglewood.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 1:09pm |
| charles.herbertson@culvercity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 1:08pm |
| melissa.guerrero@mrca.ca.gov | LACFC EWMP PEIRS,MIG eNews External | | 10/10/2013 11:15 | 8/29/2014 14:18 | 9/2/2014 12:56pm |
| farhana.mohamed@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:55pm |
| chien.pei.yu@dot.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 12:54pm |
| shokoufe.marashi@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:52pm |
| jill.taylor@ccc.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:35pm |
| kvivanti@lakewoodcity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:28pm |
| leighannek@westbasin.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:27pm |

UCLA Institute of the Environment & Sustainability

Port of Los Angeles

Building Industry Association
Los Angeles Conservation Corps

Mountains Recreation & Conservation Authority

DOT Div 7, Division of Design

| | | | | | |
|-------------------------------|-------------------------------------|--------------|------------------|-----------------|------------------|
| dcartagena@beverlyhills.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 12:21pm |
| bhamamo@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:13pm |
| chair@lbsurfrider.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:01pm |
| nutritwarehouse@yahoo.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:59am |
| jennifer@lancasterbiology.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:58am |
| bromley.eugene@epa.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:44am |
| jdettle@torrnet.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 11:42am |
| lrocha@esassoc.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:39am |
| sperlstein@weho.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 11:35am |
| lenise.marrero@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:35am |
| sabrina.rivera@aecom.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:33am |
| megan.whalen@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:20am |
| cmccullough@jlha.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:19am |
| joshua.carvalho@smgov.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 11:15am |
| kendrick.okuda@lacity.org | | Added by you | 8/29/2014 14:55 | 9/2/2014 11:10 | 9/2/2014 11:04am |
| mtripp@bh.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:04am |
| dkrauss@cityofhawthorne.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 11:01am |
| ys@cityofrh.net | LACFC EWMP PEIRS,MIG eNews External | | 10/10/2013 11:24 | 8/29/2014 14:55 | 9/2/2014 10:58am |
| susan.shu@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:53am |
| nadiac@rpv.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:50am |
| info@amigosdelosrios.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:42am |
| dsharpton@mountainstrust.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:36am |
| pmarkle@lacs.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:34am |
| tony.li@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:34am |
| dawn.petschauer@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:33am |
| sbirosik@waterboards.ca.gov | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:55 | 9/2/2014 10:29am |
| ioannice.lee@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:28am |
| juan.benitez@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:25am |
| zora.baharians@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:23am |
| javier.solis@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:17am |
| lcelaya@ci.agoura-hills.ca.us | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:55 | 9/2/2014 10:06am |
| vijay.desai@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:04am |
| henry.yuan@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:02am |
| jeichler@citruscollege.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:00am |

City of Beverly Hills

City of West Hollywood

City of Santa Monica

| | | | | | |
|---------------------------------------|--------------------------------------|--------------|------------------|-----------------|-------------------|
| taraneh.nik-khah@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:00am |
| wjohnson@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 10:00am |
| hubertus.cox@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 9:42am |
| kaden.young@culvercity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/2/2014 9:26am |
| roulene.diego@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 9:25am |
| jon.ball@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 9:13am |
| marsa.chan@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 9:10am |
| member@tnc.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 9:08am |
| bineris@hotmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:42am |
| kjserv@aol.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/2/2014 12:04am |
| codyender@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/1/2014 10:44pm |
| rene.a.vermeeren@usace.army.mil | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/1/2014 9:22pm |
| dmueller@downeyca.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/1/2014 9:00pm |
| ctwilliams2012@yahoo.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/1/2014 5:22pm |
| ksusilo@geosyntec.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 9/1/2014 5:09pm |
| montgomerylizzy@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/1/2014 4:34pm |
| adel.hagekhalil@lacity.org | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:55 | 9/1/2014 2:31pm |
| kkemmler@scc.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 9/1/2014 1:22am |
| coconnell@westranchtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/31/2014 11:17pm |
| jim.lamm@ballonacreek.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/31/2014 7:19pm |
| kellyquick@castaicareatowncouncil.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/31/2014 5:25pm |
| tmoon@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/31/2014 1:50pm |
| lakesidemediamedia@earthlink.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/31/2014 1:38pm |
| dlippman@lvmd.com | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:55 | 8/31/2014 9:58am |
| mark.capelli@noaa.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/31/2014 3:43am |
| jhignite@charter.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/31/2014 1:13am |
| djacobs@ucla.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/31/2014 12:39am |
| ehuerta28@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 11:40pm |
| crstorey@charter.net | LACFC EWMP PEIRS,sbX eNewsletter,sbX | | 12/18/2009 18:16 | 8/29/2014 14:55 | 8/30/2014 11:08pm |
| info@pacpalicc.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 6:27pm |
| lisaf@ballonafriends.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/30/2014 6:19pm |
| alisonlinder@yahoo.com | LACFC EWMP PEIRS,GoodsMovement | | 4/20/2009 17:31 | 8/29/2014 14:55 | 8/30/2014 5:45pm |
| dan@covina.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 5:32pm |
| ian@aquatechnex.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 3:53pm |

Culver City

USACE

Geosyntec

Ballona Creek Renaissance

County of Los Angeles/

Friends of Ballona Wetlands

Ms. Alison

| | | | | | |
|--|--|--------------|------------------|-----------------|-------------------|
| ksander@usc.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/30/2014 2:44pm |
| rexfrankel@yahoo.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 1:57pm |
| retamoser@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 1:33pm |
| lrapp@lakewoodcity.org | LACFC EWMP PEIRS,MIG eNews External | | 10/10/2013 11:15 | 8/29/2014 14:55 | 8/30/2014 1:19pm |
| craig.collins@silverlakereservoirs.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:55 | 8/30/2014 1:06pm |
| salbers@rcdsmm.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 1:01pm |
| karen@longbeachmarine.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 12:50pm |
| lesliepurcell@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 12:45pm |
| martykreisler@castaicareatowncouncil.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 11:45am |
| robert.thiel@cox.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 11:36am |
| patrickatwater@gmail.com | | Added by you | 8/29/2014 14:55 | 8/30/2014 11:24 | 8/30/2014 11:23am |
| bdingman@lvmwd.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 10:35am |
| njohn@lawa.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 1:35am |
| naturetrust@earthlink.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 12:34am |
| nicoleshu718@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 12:24am |
| david.a.ford@sce.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 12:11am |
| clarkdeblasio@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/30/2014 12:00am |
| chair@surfrider-southbay.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 11:41pm |
| stevefreee@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 11:10pm |
| wernerdesign@verizon.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 11:02pm |
| camswift@pacbell.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 10:54pm |
| gardens@rodsatt.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 10:54pm |
| sean.anderson@csuci.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 10:19pm |
| wrigleyisgoinggreen@hotmail.com | LACFC EWMP PEIRS,I-710 Interested Per: | | 7/26/2012 15:45 | 8/29/2014 14:55 | 8/29/2014 10:12pm |
| mstevens@kinneticlabs.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 10:09pm |
| reymundo@usgvmwd.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:57pm |
| robert.vega@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:48pm |
| ggreene@cwecorp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:43pm |
| jeffpreach@castaicareatowncouncil.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:29pm |
| pamela.hirneisen@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:16pm |
| wing.tam@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:16pm |
| rcdsmm.edu@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 9:12pm |
| jbellomo@willdan.com | LACFC EWMP PEIRS,CWCB Updates | | 2/12/2013 13:54 | 8/29/2014 14:55 | 8/29/2014 8:58pm |
| annette@expogreenway.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 8:54pm |

USC

Ballona Creek Renaissance

| | | | | | |
|--------------------------------------|--|--------------|------------------|-----------------|------------------|
| djohns@crpd.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 8:46pm |
| garcia.crystal.1990@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 8:42pm |
| angelica.hernandez@sen.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 8:29pm |
| ghildeb@dpw.lacounty.gov | LACFC EWMP PEIRS,LAFCD Public Health | | 12/20/2012 17:49 | 8/29/2014 14:18 | 8/29/2014 8:28pm |
| ninh.hong@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 8:28pm |
| cunguyen@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 8:14pm |
| khostert@swwc.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 8:04pm |
| rwatson@rwaplanning.com | LACFC EWMP PEIRS,I-710 Interested Per: | | 6/12/2013 15:01 | 8/29/2014 14:55 | 8/29/2014 8:03pm |
| travislongcore@losangelesaudubon.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 8:00pm |
| johngrap@ucla.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 8:00pm |
| skennedy@enfact.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:58pm |
| oaksrus@verizon.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:53pm |
| dkoo@waterboards.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:49pm |
| spincetl@ioes.ucla.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:43pm |
| ghanraha@callutheran.edu | | Added by you | 8/29/2014 14:55 | 8/29/2014 19:43 | 8/29/2014 7:43pm |
| llamonte@malibucity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:42pm |
| rod.merl@smgov.net | LACFC EWMP PEIRS,MIG eNews External | | 10/10/2013 11:18 | 8/29/2014 14:55 | 8/29/2014 7:39pm |
| jbrown@malibucity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:39pm |
| jsimes@usbr.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:38pm |
| shane@usgvmwd.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:38pm |
| ccash@paramountcity.com | LACFC EWMP PEIRS,I-710 Master,I-710 C | | 6/29/2010 18:24 | 8/29/2014 14:55 | 8/29/2014 7:36pm |
| sgroner@sga-inc.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:31pm |
| traci.minamide@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:30pm |
| svalor@santamonicabay.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:30pm |
| tim.pershing@asm.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:29pm |
| crivers@cwecorp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:25pm |
| dragos@blue-tomorrow.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:24pm |
| miguel@gdmlonline.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:23pm |
| gbrideau@therobertgroup.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:23pm |
| miguel@dakeluna.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:23pm |
| fwu@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:22pm |
| bsaito@lacorps.org | LACFC EWMP PEIRS,CWCB Updates | | 2/12/2013 13:54 | 8/29/2014 14:18 | 8/29/2014 7:21pm |
| ysim@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:20pm |
| lalexanderson@dpw.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:19pm |

Director of Operations/Manager of Watersheds, LADW

LADWP

The Audubon Society

UCLA Institute of the Environment & Sustainability

US BOR

Raymond

The Green Coalition

LADWP

Los Angeles Conservation Corps

LADWP

LADWP

| | | | | | |
|--------------------------------------|-------------------------------|--------------|-----------------|-----------------|------------------|
| jennifer@la-bike.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:18pm |
| belindafaustinos@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:17pm |
| aosheagreenfield@bialav.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:15pm |
| eileen.k.takata@usace.army.mil | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:09pm |
| susie.santilena@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:09pm |
| jmaret@dfg.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:09pm |
| tcontreras@fs.fed.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:05pm |
| nancy@watershedhealth.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 7:04pm |
| mgbrown@bialav.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:04pm |
| gpiddwb@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:02pm |
| judithdavies66@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:01pm |
| dwayman@scc.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 7:00pm |
| jdougall@lvmwd.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:59pm |
| kristy@watershedhealth.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:58pm |
| helsleyn@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:58pm |
| kfisher@ci.agoura-hills.ca.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:58pm |
| info@hillsforeveryone.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:57pm |
| wendy.dinh@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:56pm |
| jbiggs@brwnald.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:54pm |
| vicepresident@asnc.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:52pm |
| michelle.mattson@westonsolutions.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 6:51pm |
| fbarros@usc.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 | 8/29/2014 6:49pm |
| president@asnc.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:49pm |
| gusm@westbasin.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:46pm |
| kim@saveourbeach.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:46pm |
| mkbartl@gmail.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:46pm |
| eric.vuong@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:45pm |
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Los Angeles County Bicycle Coalition

USACE

Council for Watershed Health

Weston Solutions
USC

Ballona Creek Renaissance

| | | | | | |
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| cleanlb@halloworld.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:40pm |
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| srapoport@waterboards.ca.gov | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:18 | 8/29/2014 6:37pm |
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| dpedersen@lvmwd.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:37pm |
| irina_irvine@nps.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:37pm |
| anne_dove@nps.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:35pm |
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| lhempe@lynwood.ca.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:35pm |
| rbryden@dpw.lacounty.gov | LACFC EWMP PEIRS,LAFCD Public Health | | 12/20/2012 17:49 | 8/29/2014 14:18 | 8/29/2014 6:34pm |
| dpelser@cityofwhittier.org | LACFC EWMP PEIRS,CWCB Updates | | 2/8/2013 17:43 | 8/29/2014 14:55 | 8/29/2014 6:34pm |
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| anthony.spina@noaa.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:34pm |
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| sarah@landspaces.net | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 | 8/29/2014 6:32pm |

LARWQCB

LADWP

City of Santa Monica

Oliver

| Email address - other | Email Lists | Source Name | Created At | Updated At |
|-------------------------------------|---|--------------|-----------------|-----------------|
| dave.jones@ch2mhill.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| dfleming@westranchtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| amousavi@infeng.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| rwinter@westranchtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| btoqe@westranchtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| jzimmerman@westranchtowncouncil.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
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| jeanette@grassrootscoalition.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| gregg@ci.rolling.hillstates.ca.us | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| virginia.wei@iadwp.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| tatiana@lawaterkeeper.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| alexander.vasquez@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| chris.demonbun@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| clayton.yoshida@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| david.cheung@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| emerverto.cheng@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| megan.whalen@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| ninh.hong@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| pamela.hirneisen@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| robert.vega@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
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| sergio.u.perez@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| shahram.kharagani@lacity.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| tfinney@parks.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
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| rick.bush@noaa.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
| acervantes@sogate.org | LACFC EWMP PEIRS,I-710 Master,I-710 ESW | | 7/19/2010 14:48 | 8/29/2014 14:55 |
| mpestrella@dpw.lacounty.gov | LACFC EWMP PEIRS,CWCB Updates | | 2/12/2013 13:54 | 8/29/2014 14:18 |
| phong@bos.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| nancy@watershedhealth.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |

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| Mailbox full | |
| Mailbox full | |
| Undeliverable | |
| Undeliverable | The Audubon Society |
| Undeliverable | Ballona Creek Renaissance |
| Undeliverable | |
| Undeliverable | |
| Non-existent | Los Angeles Waterkeeper |
| Other | |
| Other | |
| Other | |
| Vacation / Auto reply | |
| Other | |
| Vacation / Auto reply | |
| Vacation / Auto reply | |
| Vacation / Auto reply | |
| Vacation / Auto reply | |
| Undeliverable | |
| Other | |
| Other | |
| Other | |
| Undeliverable | |
| Non-existent | |
| Non-existent | |
| Vacation / Auto reply | |
| Non-existent | Arturo |
| Non-existent | Assistant Director, LADWP |
| Non-existent | LA County Board of Supervisorial District 2 |
| Vacation / Auto reply | Council for Watershed Health |

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| mike@watershedhealth.org | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| bishop.john@epa.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| josephine.r.axt@usace.army.mil | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| feldman@uci.edu | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
| titushz@bv.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:18 | 8/29/2014 14:42 |
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| hmaldonado@parks.lacounty.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
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| kmcgowan@geosyntec.com | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
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| Non-existent | Black & Veatch |
| Non-existent | Culver City |
| Non-existent | Ballona Creek Renaissance |
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| deborah@waterboards.ca.gov | LACFC EWMP PEIRS | Added by you | 8/29/2014 14:55 | 8/29/2014 14:55 |
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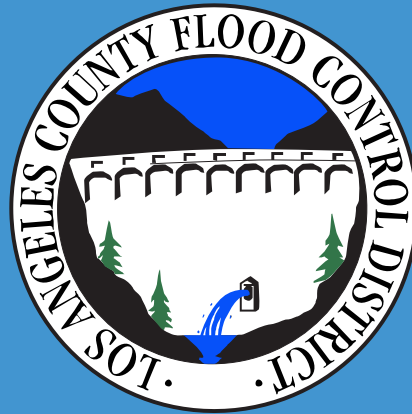
Attachment 4
**Scoping Meeting
Presentation**



Enhanced Watershed Management Programs

Program Environmental Impact Report Scoping Meeting

Los Angeles County Flood Control District



September 9, 2014

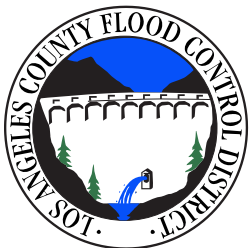
Chace Park Community Room

13650 Mindanao Way

Marina del Rey, CA 90292

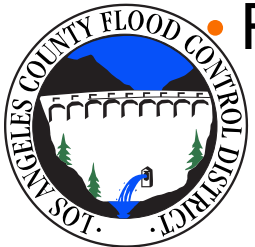
Welcome and Introductions

- Los Angeles County Flood Control District (LACFCD)
 - Gregg BeGell, P.E., Project Manager
 - TJ Moon
- Weston Solutions, Inc.
 - Andrea Crumpacker
- Environmental Science Associates
 - Environmental Consultant: ESA
 - Tom Barnes, Project Director
 - David Pohl, Project Manager



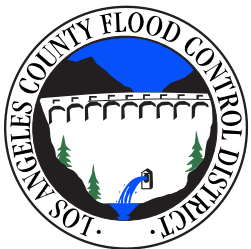
Scoping Meeting Agenda

- Municipal Separate Storm Sewer System (MS4) Discharge Permit
 - Enhanced Watershed Management Program (EWMP)
 - LACFCD Role
- California Environmental Quality Act (CEQA) Overview and Process
- Issues to be analyzed in the Program Environmental Impact Report (PEIR)
- CEQA Schedule
- Receive Public Comments



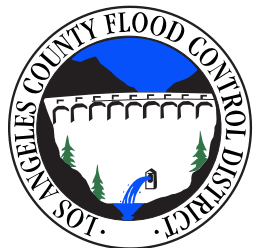
MS4 Permit Compliance

- **Project Purpose:** MS4 Permit Compliance (R4-2012-0175)
 - Each Permittee is responsible for its local MS4 compliance
 - Permit compliance through EWMPs
 - 12 NOIs submitted to LARWQCB
 - Collectively prepared by participating Permittees
 - Los Angeles Regional Water Quality Control Board (LARWQCB) approves EWMPs

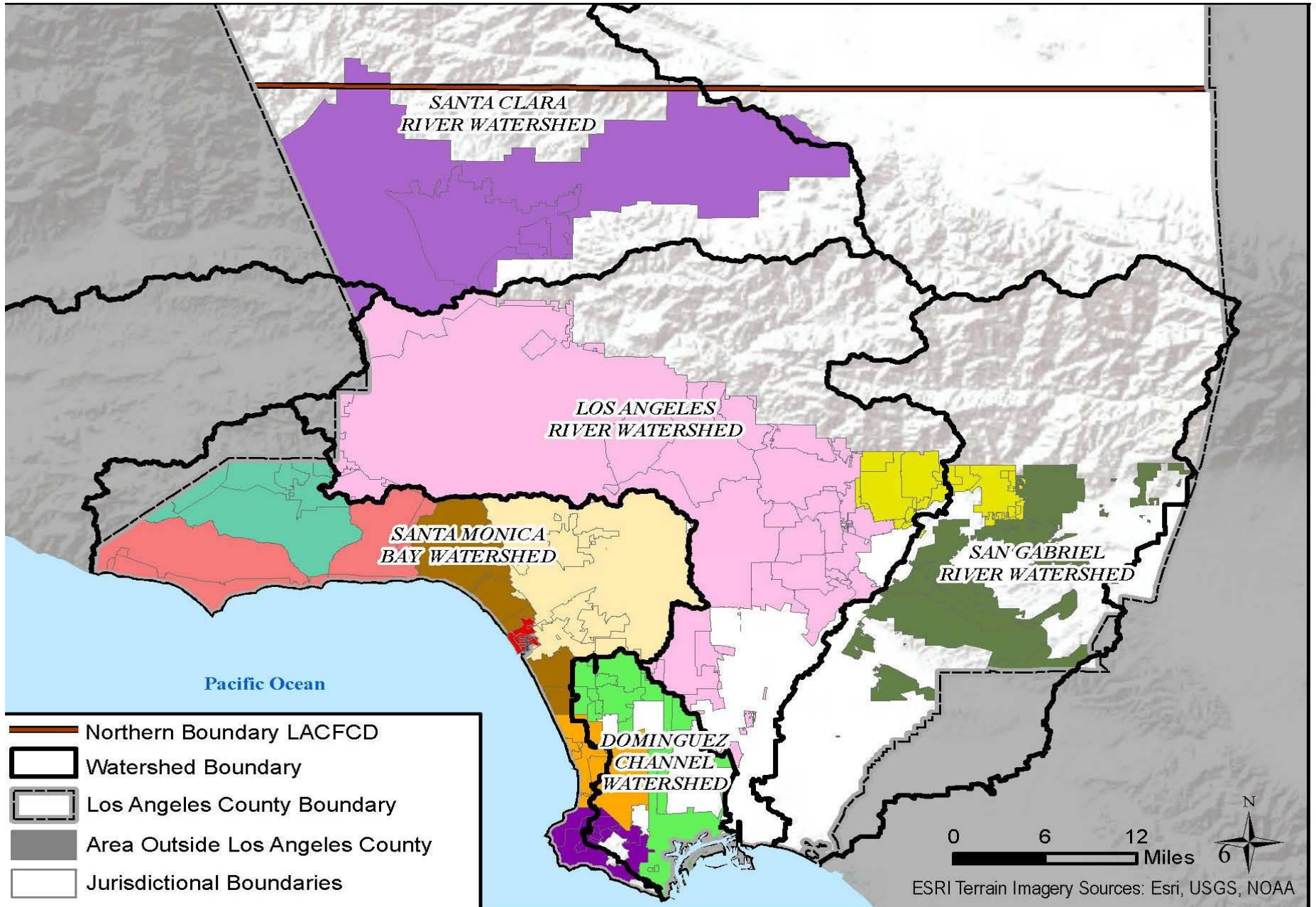


Enhanced Watershed Management Program (EWMP)

- Identify Watershed Control Measures
 - Structural Best Management Practices (BMPs)
 - Non-Structural BMPs
- Reasonable Assurance Analysis
- Priority Ranking
- Implementation by each participating Permittee

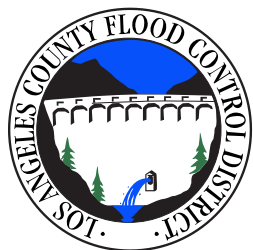


MS4 EWMP Participating Permittees



MS4 EWMP Participating Permittees

| Group Name | Permittees Involved |
|---|---|
| Ballona Creek | Beverly Hills, Culver City, Inglewood, Los Angeles, Santa Monica, West Hollywood, LA County, LACFCD |
| Beach Cities Watershed Management Group | Hermosa Beach, Manhattan Beach, Redondo Beach, Torrance, LACFCD |
| Dominguez Channel Watershed Management Group | El Segundo, Hawthorne, Inglewood, Los Angeles, Lomita, LA County, LACFCD |
| Malibu Creek Watershed | Agoura Hills, Calabasas, Hidden Hills, Westlake Village, LA County, LACFCD |
| Marina Del Rey | Culver City, Los Angeles, LA County, LACFCD |
| North Santa Monica Bay Coastal Watersheds | LA County, Malibu, LACFCD |
| Palos Verdes Peninsula EWMP Agencies | Palos Verdes Estates, Rancho Palos Verdes, Rolling Hills Estates, LA County, LACFCD |
| Rio Hondo/San Gabriel River Water Quality Group | Arcadia, Azusa, Bradbury, Duarte, Monrovia, LA County, Sierra Madre, LACFCD |
| Santa Monica Bay Watershed Jurisdictions 2 & 3 | Los Angeles, El Segundo, Santa Monica, LA County, LACFCD |
| Upper Los Angeles River Watershed | Alhambra, Burbank, Calabasas, Glendale, Hidden Hills, La Canada Flintridge, Los Angeles, Montebello, Monterey Park, Pasadena, Rosemead, San Gabriel, San Marino, South Pasadena, Temple City, LA County, LACFCD |
| Upper San Gabriel River | Baldwin Park, Covina, Glendora, Industry, La Puente, LA County, LACFCD |
| Upper Santa Clara River Watershed | LA County, Santa Clarita, LACFCD |



California Environmental Quality Act (CEQA)



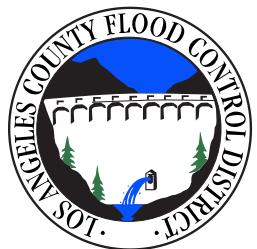
Identifies potential impacts to the environment



Informs the public and decision makers about potential environmental impacts

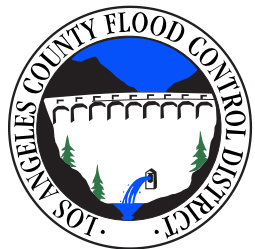


Identifies ways to avoid or reduce potential impacts



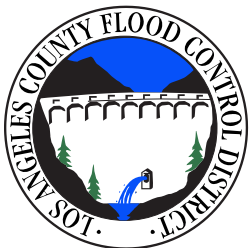
Overview – Why is LACFCD leading this PEIR?

- LACFCD operates and maintains flood control facilities in all 12 EWMP Groups
- LACFCD has vested interest in increasing opportunities for stormwater capture and groundwater recharge
- LACFCD will be working with Permittees and other stakeholders in all 12 EWMP watersheds to identify potential projects
- The proposed projects may have an environmental impact



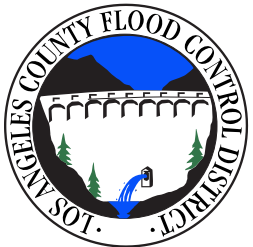
Overview - Role of Permittees

- EWMPs will be implemented by the Permittees with jurisdiction in EWMP area
- The Permittees implementing the proposed projects, or “Implementing Agencies,” will vary between EWMPs and individual projects



Proposed Project Objectives

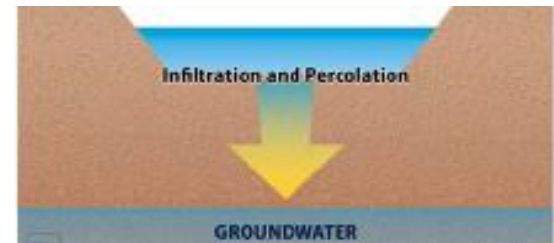
- Achieve Water Quality Performance goals through EWMP implementation
- Regional Compliance with the MS4 Permit
 - Coordinated implementation of compliance strategies
 - Watershed-specific compliance strategies
- Environmentally Responsible Opportunities
 - Beneficial flood control, water supply, and habitat



Watershed Control Measures

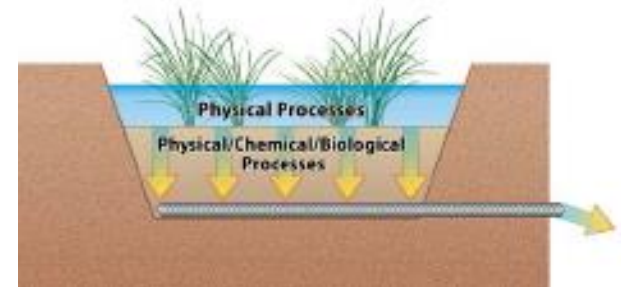
- Structural BMPs or Physical Control Measures

- Infiltration
- Water quality treatment
- Storage

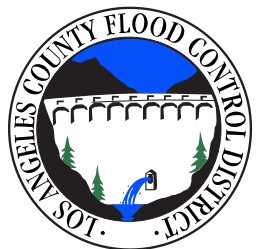
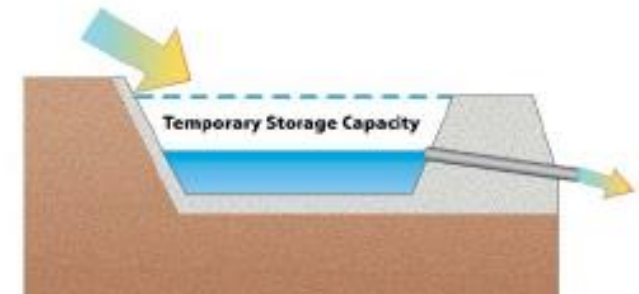


- Categories of Structural BMPs

- Regional
- Centralized
- Distributed

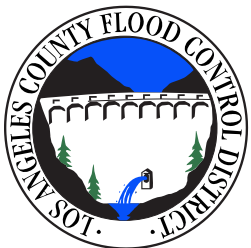


- Non-Structural BMPs

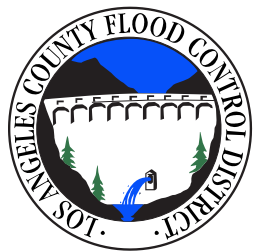
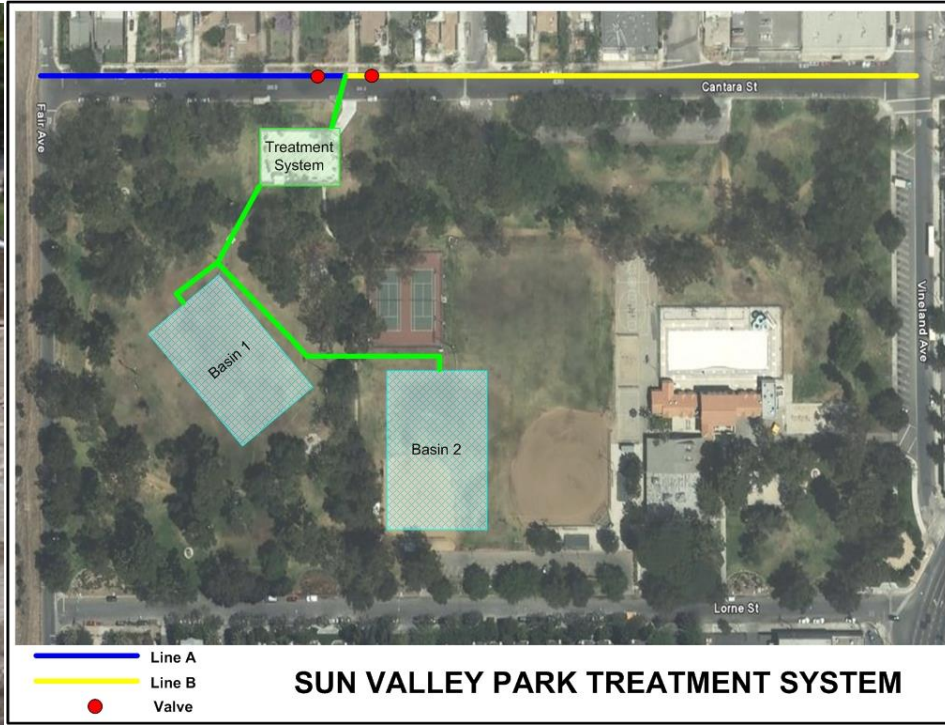


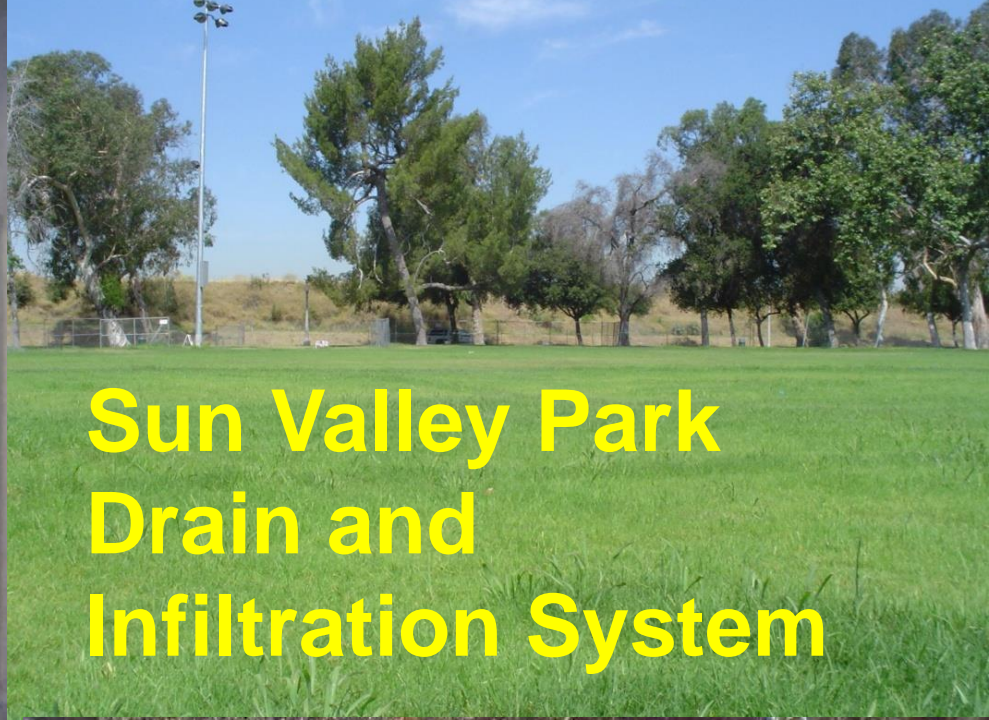
Regional EWMP Projects

- Retain all runoff from the 85th percentile, 24-hour storm event for tributary drainage area
 - Infiltration BMPs
 - Retention basins
 - Capture and Use BMPs
- May include use of public lands with open space areas, e.g., parks, large parking lots, or vacant space



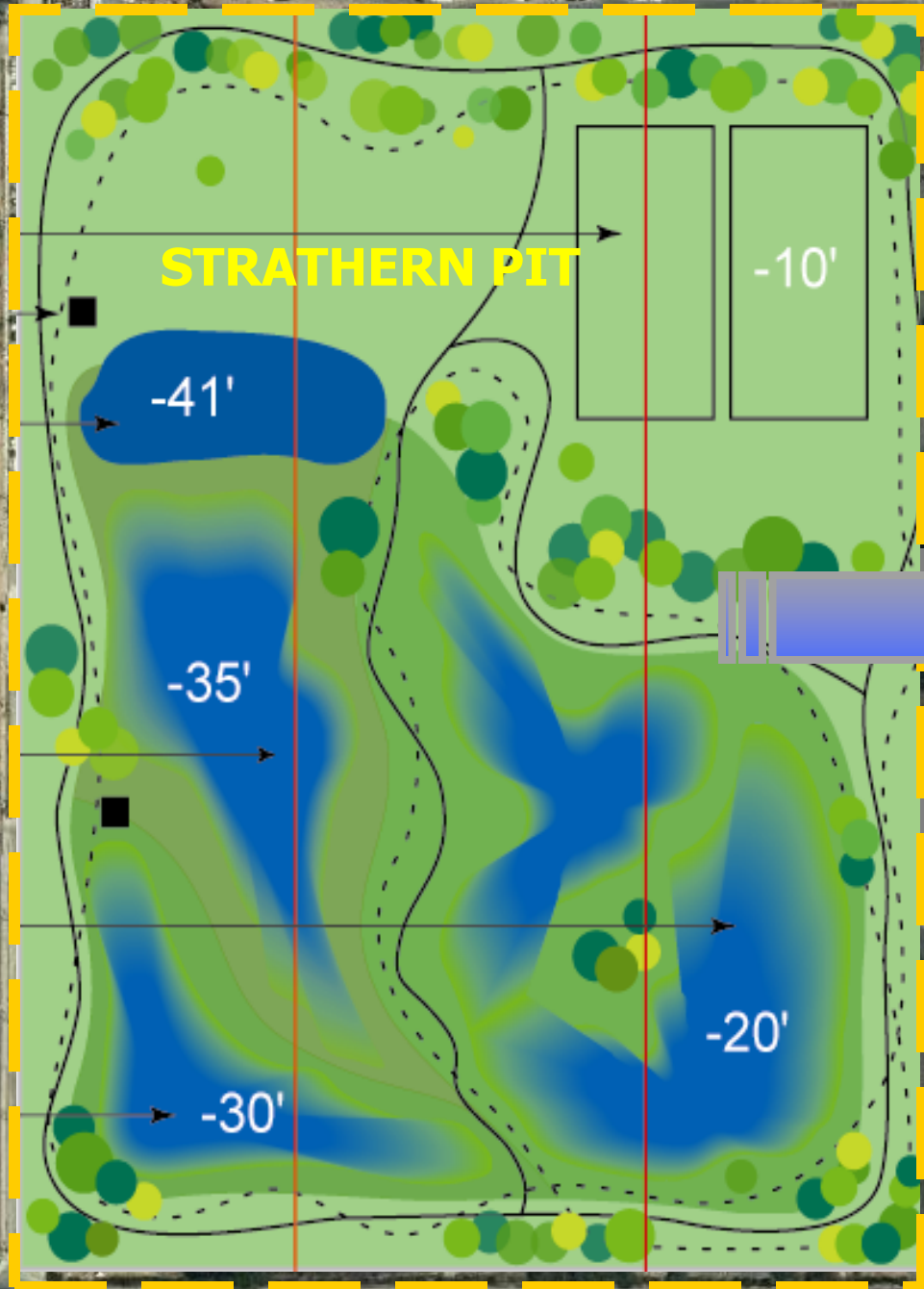
Example Regional EWMP Project – Retention and Infiltration Basin





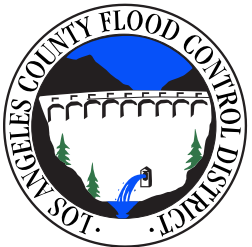
Sun Valley Park Drain and Infiltration System





Centralized Structural BMPs

- Constructed structural practices intended to treat runoff from a contributing area of multiple parcels
- Generally installed on large public parcels or adjacent to storm drain outfalls and receiving waters
- Examples:
 - Bio-filtration BMPs
 - Constructed wetlands
 - Treatment BMPs low-flow diversion
 - Creek/River restoration



Tujunga Wash - Before



Tujunga Wash - After



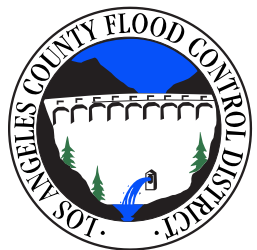
Example Centralized Structural BMP – Dominguez Gap Wetlands Project



Before



After



Example Centralized Structural BMP – Marie Canyon Low Flow Diversion (LFD)



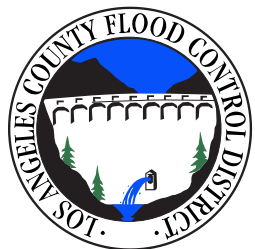


Marie Canyon LFD

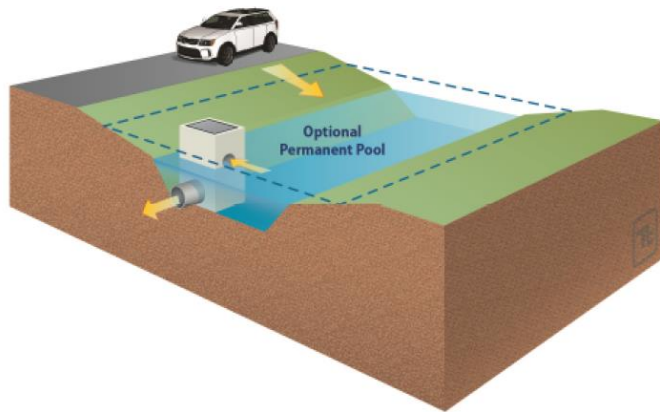


Distributed Structural BMPs

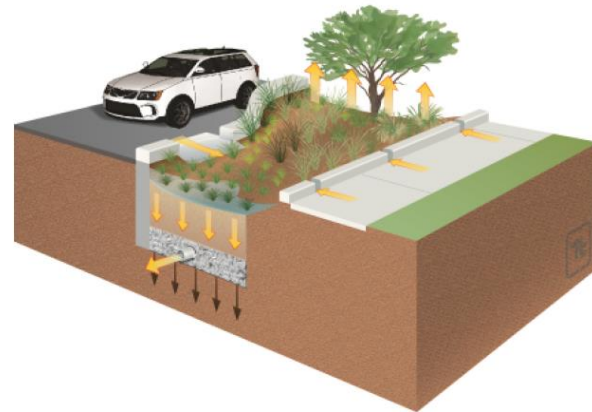
- Constructed BMPs that treat runoff close to the source and typically implemented at a single- or few-parcel level
- Green Infrastructure / Low Impact Development
 - Biofiltration
 - Bioretention
 - Bioswales / buffer strips
 - Green streets
 - Infiltration BMPs
 - Rainfall harvesting
 - Porous / permeable pavers
 - Planter boxes
- Flow-Through Treatment BMPs
 - Media / Cartridge filters
 - High-flow biotreatment
- Source Control Treatment BMPs
 - Catch basin inserts / screens
 - Gross solids removal devices
 - Hydrodynamic separators



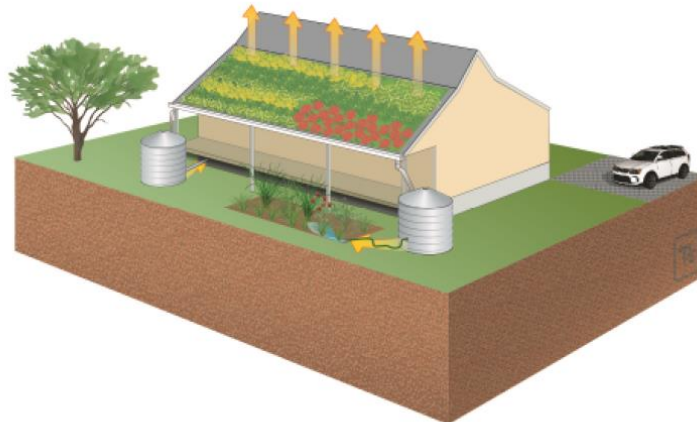
Distributed Structural BMP Proposed Projects



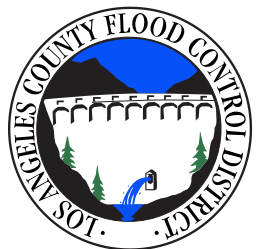
Typical distributed site-scale detention schematic (arrows indicate water pathways).



Typical distributed bioretention and biofiltration schematic showing underdrain option (arrows indicate water pathways).



Typical distributed rainfall harvest schematic (arrows indicate water pathways).



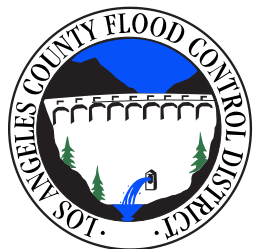
Valinda Greenway Project (2009)



Non-Structural BMPs

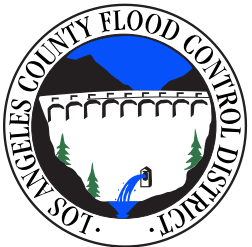


- Prevent and/or reduce runoff and/or pollution close to the source
- Nonstructural BMPs part of overall EWMP implementation program – Examples:
 - Irrigation control
 - Covered trash receptacles
 - Replacement of brake pads & lead in wheel weights
 - Pet waste cleanup stations
 - Street sweeping
 - Catch basin cleaning
 - Downspout disconnect program

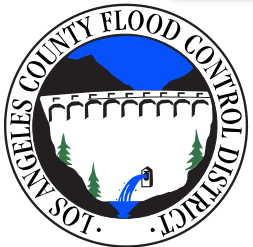
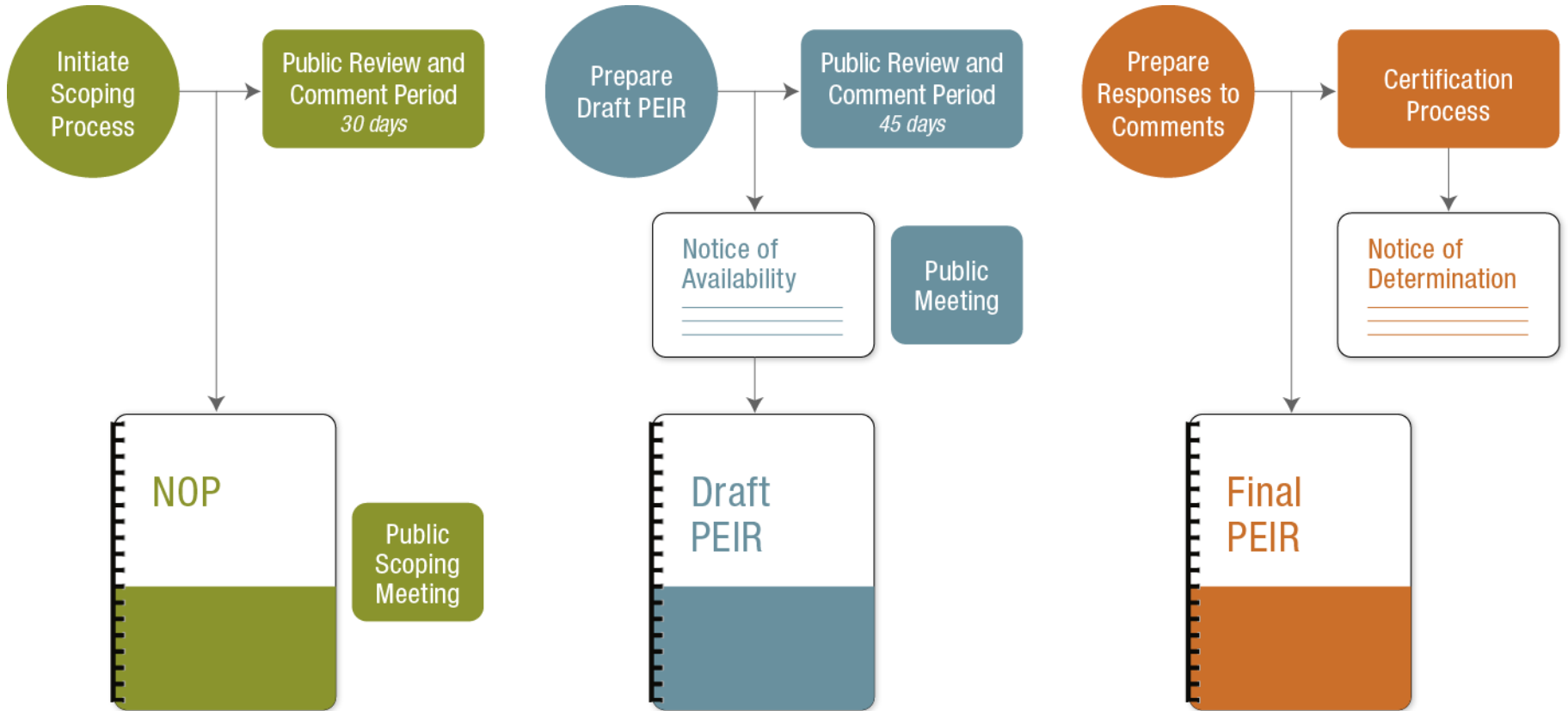


Program-Level Assessment

- Program assessment for LACFCD to submit EWMPs to LARWQCB
 - LARWQCB Responsible Agency for Approving EWMPs
- Used to evaluate a plan or program that has multiple components or actions
 - Focuses on the Effects of Implementing EWMPs
- Individual projects will be reviewed as they are further developed to determine what if any further review under CEQA is necessary

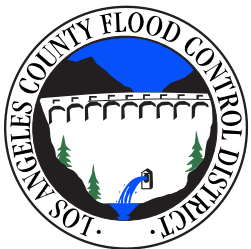


CEQA Process for an EIR



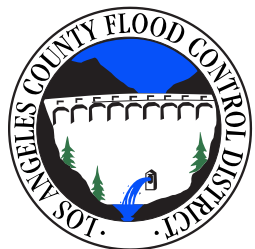
Issues to be Analyzed in the PEIR

- Aesthetics
- Air Quality
- Agriculture and Forestry
- Biological Resources
- Cultural Resources
- Geology, Soils & Seismicity
- Greenhouse Gas Emissions
- Hazards & Hazardous Materials
- Mandatory Findings of Significance
- Hydrology & Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population & Housing
- Public Services
- Recreation
- Traffic & Transportation
- Utilities & Energy
- Alternatives
- Cumulative Projects



PEIR Schedule Estimate

| 2014 - 2015 | Deliverable/Milestone |
|-----------------------|--|
| August - September | <ul style="list-style-type: none"> • 30-Day public review of Notice of Preparation • Three scoping meetings |
| October - December | <ul style="list-style-type: none"> • Draft PEIR preparation |
| January - March | <ul style="list-style-type: none"> • 45-Day public review period for PEIR • Public review meetings |
| March | <ul style="list-style-type: none"> • Response to Comments • Final PEIR preparation |
| April | <ul style="list-style-type: none"> • Submission to Board of Supervisors for consideration of project approval and certification of PEIR |

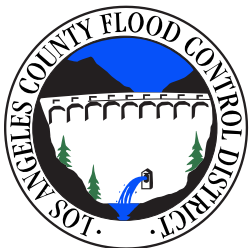


NOP Comments

- Comment period closes **September 29, 2014** by 5:00 PM
- NOP and other project information can be downloaded from www.LACoH2Osheds.com
- Submit Comments
 - At scoping meeting: verbal or written comments
 - Or mail or email comments **no later than September 29th** to:

Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803

gbegell@dpw.lacounty.gov



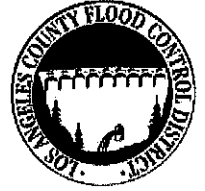
Attachment 5
**Scoping Meeting Sign-In
Sheets**



EWMP PEIR Scoping Meeting

September 9, 2014 6-8PM

Burton Chace Park—13650 Mindanao Way, Marina del Rey



SIGN-IN SHEET

Please Sign In (kindly print)

| Name | Phone | Address, City, Zip Code |
|---|-------|-------------------------|
| 1. REX FRANKEL | | |
| E-mail address REX FRANKEL @ yahoo.com | | |
| 2. KEN SUSILO | | |
| E-mail address ksusilo@geosyntec.com | | |
| 3. | | |
| E-mail address | | |
| 4. | | |
| E-mail address | | |
| 5. | | |
| E-mail address | | |
| 6. | | |
| E-mail address | | |
| 7. | | |
| E-mail address | | |
| 8. | | |
| E-mail address | | |
| 9. | | |
| E-mail address | | |
| 10. | | |
| E-mail address | | |



SIGN-IN SHEET

Please Sign In (kindly print)

| Name | Phone | Address, City, Zip Code |
|---|-------------------|---|
| 1. Aidon Mousari | (951) 203-2595 | |
| E-mail address Amousari@infeng.co | | |
| 2. Bruce Hamamoto | 626 458 5914 | |
| E-mail address bjhamamoto@dpw.lacounty.gov bjhamamoto@dpw.lacounty.gov | | |
| 3. RAFAEL CASILLAS | (626) 357-7931 | City of Duarte 1600 Huntington Dr. Duarte 91010 |
| E-mail address rcasillas@accessduarte.com | | |
| 4. SAM KOUTI | 323 881-1200 x471 | MONTEBELLO |
| E-mail address | | |
| 5. Erik Conard | | Culver City |
| E-mail address | | |
| 6. | | |
| E-mail address | | |
| 7. | | |
| E-mail address | | |
| 8. | | |
| E-mail address | | |
| 9. | | |
| E-mail address | | |
| 10. | | |
| E-mail address | | |

Monrovia Community Center, K. Dalton Rm.—119 W. Palm Ave., Monrovia



SIGN-IN SHEET

Please Sign In (kindly print)

| Name | Phone | Address, City, Zip Code |
|--|----------------|---|
| 1. Anthony Ty | (626) 932-5573 | |
| E-mail address | | |
| 2. Charles L Seitz | | 491 Ida May Ln Sierra Madre 91024 |
| E-mail address Charles.L.Seitz@gmail.com | | |
| 3. Richard Schulhof | | 301 N. Baldwin Arcadia 91001 |
| E-mail address Richard.Schulhof 626 971 3231 | | |
| 4. Genevieve Osmerq | 626-458-3978 | 900 S. Fremont Ave. Alhambra, CA 91803 |
| E-mail address goserena@dpr.lacounty.gov | | |
| 5. JUN CERWANTES | 626-932-5777 | 600 S. MTN. AVE. MONROVIA, CA 91016 |
| E-mail address jcerwantes@ci.monrovia.ca.us | | |
| 6. HUGO MALDONADO | | 265 cloverleaf drive BALDWIN PARK, CA 91706 |
| E-mail address hmaldonado@perks.lacounty.gov 626 523-1232 | | |
| 7. | | |
| E-mail address | | |
| 8. | | |
| E-mail address | | |
| 9. | | |
| E-mail address | | |
| 10. | | |
| E-mail address | | |

Attachment 6
**Scoping Meeting Public
Comments**



EWMP PEIR Scoping Meeting
Burton Chace Park, Marina del Rey
September 9, 2014

Comments and questions following the presentation by Tom Barnes, Project Director from Environmental Services, Inc.

- Will this program require 12 environmental impact reports (EIRs), one for each of the 12 watershed within the LACFCD that will be participating in the development of an Enhanced Watershed Management Plan (EWMP) or just one EIR for all 12 watersheds?
 - Only one EIR will be required.
- How does the EWMP relate to the TDML plans? Will this effort end up replacing the TDML implementation plans that have been developed for each of these 12 watersheds?
 - That question cannot be answered at this time.
- Each watershed has a specific pollutant type and a TMDL implementation plan designed to address that pollutant. Given the variety of different problem pollutants in each of these watersheds, the EWMP should not replace the TMDL implementation plans. Are these TMDL implementation plans now on hold while this EWMP is being developed?
- The reason there is no one else here tonight is that there are no specific projects being presented for us to analyze. Over the years, the same set of water quality improvement objectives are presented in every meeting but never with any specific projects. We need to know specifically what is being planned. The EIRs are just words but give us nothing specific.
- Regarding the Santa Monica Bay Plan, the City of LA did not meet water quality objectives. From 2006, the City has had 8 years to comply with the consent decree but it has never reached the mandated goals. We heard that it would take the equivalent of 25 Hyperion Treatment Plants to achieve these water quality goals, and at a tremendous cost. So, how can you ask for public input without presenting us specific projects to review including the costs associated with those projects? Today, we have agencies with plans that are never implemented and taxing us without telling us what we are paying for.
- You can have no plans without public involvement but there can be no meaningful public involvement without specifics.
- Questions that should be addressed during these meetings: Will the Plan (or proposed project?) comply with the TMDL implementation plans and what will it really cost to implement? We have heard costs as high as \$150 billion for LA County to fully meet its water quality goals and that \$3 billion is being spent on the Ballona Creek treatment wetlands. People want to know what bang

what they are really going to get for their buck since they have been repeatedly disappointed by past programs.

- You are heading into years of litigation from people who actually would support this project, if you do not provide more specific project information. The piece meal approach to solving these water quality projects does not cut it. Over the years we have seen politically motivated plans developed for each city council district rather than comprehensive plans that can realistically achieve the objectives of the Clean Water Act. What is needed now is for you to make a list of projects a part of the Notice of Preparation (NOP) and not wait for the EIR.
- What we want to know and it needs to be included in the EIR are the environmental impacts from specific projects. What we want to see is a plan that is designed to actually comply with the Clean Water Act and to see that funding is available for that plan, to see those dollars actually spent on the projects, and result in actual, tangible cleaning up of our water.
- If you already have a projects lined up, where can I go to see that list of projects?
 - A link is available which we will send to you.
- The process is faulty if the NOP does not contain a list of projects from the very start of this process.
 - The reason we are doing it this way is that the EWMP programs is being designed to launch the whole compliance effort.

LA County Flood Control District
Enhanced Watershed Management Programs PEIR
Scoping Meeting
September 9, 2014, 6pm

Oral Public Comments

Mr. Rex Frankel:

- How many EIRs will be involved?
- Is this a replacement for TMDL implementation plans?
- Are implementation plans on hold?
- There are no projects to comment on – this is why there is nobody here at the meeting
- Ballona Wetlands is a concern...is that an EWMP project?
- Has the City of LA made progress in implementing plans?
- Has had 8 years under consent decree, but there are no specific projects
- Public needs to know associated costs
- How can we comment without specifics?
- Ballona project is a primary concern
- You are proposing taxes without specifics...therefore there will be no public involvement
- What is it going to cost??
- Is Ballona going to be a water quality urban runoff dump?
- Specifics should be available in the NOP

EWMP PEIR Scoping Meeting Notes
Monrovia Community Center
September 15, 2014

Comments and questions from meeting attendees following the presentation.

- Do each of the 12 individual EWMP watershed areas have their own public process?
 - This environmental process is being conducted by the Flood Control District for their use to clear EWMP related projects. Each watershed can use the one being developed by the Flood Control District or create their own for a specific project.

- Are individual projects being identified in the EIR?
 - A list of projects with descriptions will be developed that that will be included in the final document. It will be a live document during the time of submittal. The analysis focuses on project types because the projects will vary.

- Is the MS4 permit in response to regulation?
 - It is in response to the Clean Water Act for municipalities.

- Will funding be identified through this process for some of the projects that may be implemented?
 - CEQA does not address cost unless it is related to change in the environment.

- If one wishes to advocate for particular projects within an EWMP what is the process to do this.
 - Write/include in your comment through EWMP process or through the permittee

- Will criteria vary from watershed to watershed, or will the same criteria be used for all?
- Is there interaction between this project and reclamation? How does this relate to recycled water? Do you talk to each other?
- Education should be part of the evaluation criteria. The value of education should be priority.

LA County Flood Control District
Enhanced Watershed Management Programs PEIR
Scoping Meeting
September 15, 2014, 6pm

Oral Public Comments

- Does each EWMP have its own public process?
- Will individual projects be identified in EIR?
- Is MS4 permit response (?) to legal action?
- Is funding attached to this process?
- How do I advocate for a project?
 - Through EWMP team?
 - Or EIR team?
- Are criteria the same for each watershed?
- How does this relate to recycled water programs?
- Is educational value of a project a high priority? It should be.

Attachment 7
**State Clearinghouse
Distribution of NOP**





Edmund G. Brown Jr.
Governor

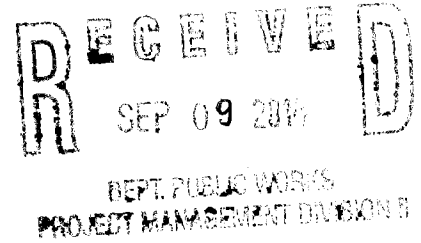
STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

Notice of Preparation

August 29, 2014



To: Reviewing Agencies

Re: Enhanced Watershed Management Programs (EWMP) Program EIR
SCH# 2014081106

Attached for your review and comment is the Notice of Preparation (NOP) for the Enhanced Watershed Management Programs (EWMP) Program EIR draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Gregg BeGell
Los Angeles County Flood Control District
900 South Fremont Avenue, 11th Floor
Alhambra, CA 91803

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Attachments
cc: Lead Agency

**Document Details Report
State Clearinghouse Data Base**

SCH# 2014081106
Project Title Enhanced Watershed Management Programs (EWMP) Program EIR
Lead Agency Los Angeles County Flood Control District

Type **NOP** Notice of Preparation

Description The development of the EWMP will involve the evaluation and selection of multiple watershed control measures or best management practices (BMP) types including non-structural and distributed, centralized and regional structural BMPs. These BMPs will be implemented to meet compliance goals and strategies under the 2014 MS4 Permit. Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage. These are three categories of structural BMPs, defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit.

Lead Agency Contact

Name Gregg BeGell
Agency Los Angeles County Flood Control District
Phone 626 300 3298 **Fax**
email
Address 900 South Fremont Avenue, 11th Floor
City Alhambra **State** CA **Zip** 91803

Project Location

County Los Angeles
City Los Angeles, City of
Region
Cross Streets Throughout Los Angeles County
Lat / Long
Parcel No. Various
Township **Range** **Section** **Base**

Proximity to:

Highways Various
Airports LAX, Burbank
Railways Various
Waterways Various
Schools Various
Land Use Various land uses throughout the County

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Flood Plain/Flooding; Geologic/Seismic; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Soil Erosion/Compaction/Grading; Toxic/Hazardous; Traffic/Circulation; Water Quality; Vegetation; Water Supply; Wetland/Riparian; Wildlife; Cumulative Effects; Other Issues

Reviewing Agencies Resources Agency; Coachella Valley Mountains Conservancy; Department of Parks and Recreation; Department of Water Resources; Department of Fish and Wildlife, Headquarters; Department of Fish and Wildlife, Marine Region; Native American Heritage Commission; Santa Monica Bay Restoration; Caltrans, District 7; Air Resources Board; State Water Resources Control Board, Division of Water Quality; State Water Resources Control Board, Division of Water Rights; Regional Water Quality Control Board, Region 4; San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy; Santa Monica Mountains Conservancy

Date Received 08/29/2014 **Start of Review** 08/29/2014 **End of Review** 09/29/2014

- Resources Agency
- Resources Agency
Nadell Gayou
- Dept. of Boating & Waterways
Nicole Wong
- California Coastal Commission
Elizabeth A. Fuchs
- Colorado River Board
Lisa Johansen
- Dept. of Conservation
Elizabeth Carpenter
- California Energy Commission
Eric Knight
- Cal Fire
Dan Foster
- Central Valley Flood Protection Board
James Herota
- Office of Historic Preservation
Ron Parsons
- Dept of Parks & Recreation
Environmental Stewardship Section
- California Department of Resources, Recycling & Recovery
Sue O'Leary
- S.F. Bay Conservation & Dev't Comm.
Steve McAdam
- Dept. of Water Resources Agency
Nadell Gayou
- Fish and Game
- Dept. of Fish & Wildlife
Scott Flint
Environmental Services Division
- Fish & Wildlife Region 1
Donald Koch
- Fish & Wildlife Region 1E
Laurie Hainsberger
- Fish & Wildlife Region 2
Jeff Drongesen
- Fish & Wildlife Region 3
Charles Armor
- Fish & Wildlife Region 4
Julie Vance
- Fish & Wildlife Region 5
Leslie Newton-Reed
Habitat Conservation Program
- Fish & Wildlife Region 6
Tiffany Ellis
Habitat Conservation Program
- Fish & Wildlife Region 6 I/M
Heidi Sickler
Inyo/Mono, Habitat Conservation Program
- Dept. of Fish & Wildlife M
George Isaac
Marine Region
- Other Departments
- Food & Agriculture
Sandra Schubert
Dept. of Food and Agriculture
- Dept. of General Services
Public School Construction
- Dept. of General Services
Anna Garbeff
Environmental Services Section
- Delta Stewardship Council
Kevan Samsan
- Independent Commissions/Boards
- Delta Protection Commission
Michael Machado
- OES (Office of Emergency Services)
Dennis Castrillo

- Native American Heritage Comm.
Debbie Treadway
- Public Utilities Commission
Leo Wong
- Santa Monica Bay Restoration
Guangyu Wang
- State Lands Commission
Jennifer Deleong
- Tahoe Regional Planning Agency (TRPA)
Cherry Jacques
- Business, Trans & Housing
- Caltrans - Division of Aeronautics
Philip Crimmins
- Caltrans - Planning
Terri Pencovic
- California Highway Patrol
Suzann Ikeuchi
Office of Special Projects
- Housing & Community Development
CEQA Coordinator
Housing Policy Division
- Dept. of Transportation
- Caltrans, District 1
Rex Jackman
- Caltrans, District 2
Marcelino Gonzalez
- Caltrans, District 3
Eric Federicks - South
Susan Zanchi - North
- Caltrans, District 4
Erik Alm
- Caltrans, District 5
David Murray
- Caltrans, District 6
Michael Navarro
- Caltrans, District 7
Dianna Watson

- Caltrans, District 8
Dan Kopulsky
- Caltrans, District 9
Gayle Rosander
- Caltrans, District 10
Tom Dumas
- Caltrans, District 11
Jacob Armstrong
- Caltrans, District 12
Maureen El Harake
- Cal EPA
- Air Resources Board
- All Other Projects
Cathi Slaminski
- Transportation Projects
Nesamani Kalandiyur
- Industrial Projects
Mike Tollstrup
- State Water Resources Control Board
Regional Programs Unit
Division of Financial Assistance
- State Water Resources Control Board
Jeffery Werth
Division of Drinking Water
- State Water Resources Control Board
Student Intern, 401 Water Quality Certification Unit
Division of Water Quality
- State Water Resources Control Board
Phil Crader
Division of Water Rights
- Dept. of Toxic Substances Control
CEQA Tracking Center
- Department of Pesticide Regulation
CEQA Coordinator

- Regional Water Quality Control Board (RWQCB)
- RWQCB 1
Cathleen Hudson
North Coast Region (1)
- RWQCB 2
Environmental Document Coordinator
San Francisco Bay Region (2)
- RWQCB 3
Central Coast Region (3)
- RWQCB 4
Teresa Rodgers
Los Angeles Region (4)
- RWQCB 5S
Central Valley Region (5)
- RWQCB 5F
Central Valley Region (5)
Fresno Branch Office
- RWQCB 5R
Central Valley Region (5)
Redding Branch Office
- RWQCB 6
Lahontan Region (6)
- RWQCB 6V
Lahontan Region (6)
Victorville Branch Office
- RWQCB 7
Colorado River Basin Region (7)
- RWQCB 8
Santa Ana Region (8)
- RWQCB 9
San Diego Region (9)
- Other
ANNE LA PLUER ~~REDA~~ CONSERVATION
JAN CARROLL
SANTA ANA
MTN
Conservancy

Attachment 8
**Comment Period Extension
Letter**





Dear Stakeholder and Interested Party,

The Los Angeles County Flood Control District (LACFCD) has extended the public comment period for the Notice of Preparation (NOP) of a Program Environmental Impact Report (PEIR) for proposed Enhanced Watershed Management Programs (EWMP). The extended NOP comment period will end October 29, 2014. The LACFCD is soliciting feedback from interested persons and agencies as to the scope and content of the environmental information to be evaluated in the PEIR. Comments may be submitted by regular mail or email to the address provided below.

Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803
(626) 300-3298
gbegell@dpw.lacounty.gov

As Lead Agency, LACFCD has developed the NOP to notify Responsible and Trustee Agencies and interested parties that the LACFCD is preparing the PEIR for the proposed project. The Notice of Preparation (NOP) for the PEIR as well as an [audio presentation](#) describing the process can be accessed at: www.LACoH2Osheds.com. The audio presentation has been added to the web-site for those that were not able to attend the three Scoping Meetings held in September.

The LACFCD, the County of Los Angeles, and 84 incorporated cities within Los Angeles County (collectively referred to as Permittees) are covered under federal clean water regulations ("permits") for the discharge of urban runoff to waters of the United States. Under the 2012 Municipal Separate Storm Sewer System (MS4) Permit for Los Angeles County, Permittees have the option of implementing an innovative approach to Permit compliance through development of EWMPs. The LACFCD, along with participating cities, has opted to exercise this option through the development of 12 EWMPs in their respective watershed groups. These EWMPs will identify structural and non-structural strategies to achieve permit compliance. The EWMPs will be submitted to the Los Angeles Regional Water Quality Control Board (LARWQCB) for approval. Implementation of the EMWPs would occur following approval by the LARWQCB.

We will continue to keep you informed of the process.

Attachment 9
**Public Comment Letters
Received**



October 16, 2014

Enrique Huerta
At-Large Stakeholder
7345 Nada Street
Downey, CA 90242
ehuerta28@gmail.com
(323) 573-0129

Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
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gbegell@dpw.lacounty.gov

RE: Public Comments: Notice of Preparation of a Draft Program Environmental Impact Report for Enhanced Watershed Management Programs

Dear Mr. BeGell:

Thank you for your efforts on the Notice of Preparation (NOP) for the Draft Program Environmental Impact Report for the Enhanced Watershed Management Programs (EWMP). I am confident your work will result in an informative and precise first tier final Program Environmental Report (PEIR) that is adequate, complete, and a good faith effort at full disclosure. The purpose of my comments, per Section 15168(c)(5) of the 2014 California Environmental Quality Act (CEQA) Statute and Guidelines, is to assist in the creation of a PEIR “that deals with the effects of the program as specifically and comprehensively as possible.” Additionally, I realize that by doing “a good and detailed analysis of the program, many subsequent activities could be found to be within the scope of the project described in the program EIR, and no further environmental documents would be required.”

I recognize and appreciate the herculean task involved for the Flood Control District and it is my sincere attempt to keep my comments relevant to the NOP. As such, I have attempted to draft my comments in a reader-friendly manner that identify the issue and propose a feasible solution(s). My comments only address the content of the NOP.

COMMENTS ON THE CONTENT OF THE NOP

1. Introduction

(Page No. 2) Please elaborate on the approval process. It would be informative if the role between the Los Angeles County Flood Control District (LACFCD) and the Los Angeles Regional Water Quality Control Board (LARWQCB) is further explained. The introduction does a good job explaining the steps involved in the EWMP process, but lacks clarity on the connection between the PEIR and LARWQCB. In particular, the sentence in mind states, “The LARWQCB is responsible for approval of the EWMPs in compliance with the MS4 Permit. Implementation of the EMWPs would occur following approval by the LARWQCB.”

If the LARWQCB approves the EWMPs then who adopts the final PEIR? How does this PEIR fit into the responsibilities and mandates of the LARWQCB? All 12 of the EWMPs specify a date when the final EWMPs will be submitted (June 2015) to the LARWQCB, but no mention is made about the PEIR. Will the Lead Agency submit a EWMP packet on behalf of all 12 EWMPs and will the PEIR be a part of that packet? In addition, the NOI submitted to the LARWQCB by each Watershed Management Group (WMP) span two programs: the EWMPs ‘and’ Coordinated Integrated Monitoring Programs (CIMP). Does this PEIR also analyze the CIMP?

(Page 5) The opening paragraph states that “The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach.” However, a review of all 12 EWMPs indicates that there was no cost/benefit analysis completed to substantiate the “cost-effectiveness” of these methods. Please identify any additional documentation supporting this claim.

(Page No. 5) Please clarify the use of the term “project.” The final sentence in the first paragraph states, “The EWMPs will also evaluate multi-benefit regional projects that will retain (through infiltration or capture and reuse) the stormwater quality design volume (85th percentile storm for 24 hours) for the runoff from the contributing drainage area.” Evaluating, I’m assuming site-level projects with regional benefits, at the PEIR level increases the dissonance between the goal of an EIR, as Section 21002.1(d) of the CEQA Statute states, “to consider the effects, both individual and collective, of all activities involved in a project,” and the inherent collective geographic scope of the PEIR. I reviewed all 12 of the EWMPs and CIMP. All 12 of the EWMPs do not identify projects currently in the works and no analysis is provided. The EWMPs seem to be evaluating plans and policies. Clarification of the term project would be beneficial in order to clearly understand the scope of this PEIR.

In addition, Section 21003 states that, “All persons and public agencies involved in the environmental review process be responsible for carrying out the process in the most efficient, expeditious manner in order to conserve the available financial, governmental, physical, and social resources with the objective that those resources may be better applied toward the mitigation of actual significant effects on the environment.” In an effort to avoid the possibility of imposing an unfunded mandate on local cities and/or non-profit groups to undertake the second tier of this PEIR, the prudent use of public funds, and to promote a second tier CEQA process that is streamlined, I feel it would be beneficial to incorporate an analysis of current projects in the “pipeline.”

This is critical because a review of the Greater Los Angeles County Integrated Regional Water Management (IRWM) database reveals over 190 water resources projects with regionally-significant benefits in the pipeline (Appendix A). The IRWM is a funding mechanism that encourages regional and local collaboration in the design of sustainable water resources

infrastructure. To date, regional agencies, cities, non-profits and community representative groups, have collaborated and submitted project proposals of regional significance. Not all of these projects incorporate BMPs, per say (many do), and many have already been deemed categorically exempt. Additional vetting would need to take place in order to identify projects in-line with a low impact development ideal to collaborate and integrate compliance strategies that are based on a multi-pollutant approach with a focus on green infrastructure that maximize the retention and use of urban runoff as a resource for recharging aquifers and for irrigation and other uses.

If this nexus to analyze the impacts of regional projects is deemed reasonably feasible, further vetting of the projects would be required to understand their CEQA status. The question is who conducts this analysis, the LACFCD or the WMGs? This is important to figure out since Section 15152(b) of the CEQA Statute and Guidelines states that, "Tiering does not excuse the lead agency from adequately analyzing reasonably foreseeable significant environmental effects of the project and does not justify deferring such analysis to a later tier EIR or negative declaration."

(Page 5) The second paragraph states, "The PEIR will provide a program-level assessment of the overall permit compliance effort, focusing particularly on the structural watershed control measures proposed in each of the 12 EWMP areas." The project list on Appendix A identifies projects aiming to implement watershed control measures throughout Los Angeles County. Many of these projects are categorically exempt, have concluded their own environmental assessment or already constructed, however, the database (L.A. County Water Plan) where I retrieved these does not clearly indicate this information. Furthermore, none of the 12 EWMPs under consideration undertook this task to see how the proposed physical changes within their EWMP may or may not comply with the goals and objectives of their

respective plans and policies. In an effort to, as Section 15152© describes, “avoid deferring the potential significant impacts to the second tier and possibly preventing the adequate identification of significant effects of the planning approval at hand,” it may be worthwhile to include this list in the PEIR analysis or have the WMGs revise their draft plans to incorporate this analysis.

1.1 Project Location

The description of the location could be augmented by elaborating on the environmental context. That is, adding maps identifying the tributaries, rivers, channels, etc. within the 12 watersheds could increase understanding of the local watershed functional characteristics. This detailed information is contained in most of the individual EWMPs. A reference to the website location of each respective EWMP could suffice.

Additionally, there is no reference to the types of soils that underlie the 12 EWMPs. The EWMPs provide a summary of these soil characteristics. A reference to the website location of each respective EWMP would be helpful. It is important to know the soil types and their respective infiltration rates in order to understand the feasibility of implementing certain structural BMPs. I realize that this may be covered in more depth under the Geology, Soils and Seismicity category, but there is no clear reference in the accompanying summary.

2. BACKGROUND

2.1 Stormwater/Water Quality

(Page 7) The first paragraph states, “Discharges may adversely affect receiving surface water quality with pollutants such as bacteria, nutrients (nitrogen and phosphorus), aluminum, copper, lead, zinc, diazinon, and cyanide. Aquatic toxicity, particularly during wet weather, is

also a concern. Stormwater and non-stormwater discharges of debris and trash are also a pervasive water quality problem in the Los Angeles region.” It would be beneficial to add the types of pollution stemming from the natural environment (non-anthropogenic), too. What kind of pollutants exists in the soils being eroded from natural settings and vacant parcels of land?

2.2 Total Maximum Daily Loads

The final sentence in this paragraph states, “LARWQCB and United States Environmental Protection Agency (USEPA) have established 33 TMDLs that identify Los Angeles County MS4 discharges as one of the pollutant sources causing or contributing to these water quality impairments.” Please elaborate on the NPDES permit process. Is there a need for discretionary approval of the EWMPs or PEIR by the USEPA? Is there a need for the USEPA to issue a TMDL or other permit? If so, is there a need to do a concurrent Environmental Impact Statement?

2.3 MS4 Permit

(Page 8) This section states. “The intent of the EWMP is to comprehensively evaluate opportunities, within the participating Permittees’ collective jurisdictional boundaries, for collaboration among Permittees and other partners on multi-benefit regional projects that, wherever feasible, retain non-stormwater runoff and also address flood control and/or water supply.” Has the United States Army Corp of Engineers (USACE) been a part of these collaborative efforts? Are any of their existing infrastructure being directly or indirectly impacted by the EWMPs? Is there a need for discretionary approval of the EWMPs or PEIR by the USACE? Is there a need for the USACE to issue a permit related to the EWMPs? If so, is there a need to do a concurrent Environmental Impact Statement?

3. Enhanced Watershed Management Plans

As mentioned in the first comment under the Introduction heading, please elaborate on the approval process. Specifically, how the PEIR fits into the LARWQCBs approval of the EWMPs.

4.1.1 Regional Structural BMPs

The second paragraph states, “Opportunities for Regional BMPs will be identified and evaluated within and across subwatersheds, with focus on the multi-benefit potential for capture and reuse of wet-weather flows within variable drainage areas.” What method and level of detail will be used to identify and evaluate BMPs? This paragraph goes on to state that, “Potential project locations may include areas with open spaces, whether they are within parks, large parking lots, or vacant spaces,” indicating that a geographically site-specific analysis is appropriate under this PEIR. Collectively, there is over 190 regional projects identified in Appendix A being proposed by the various members of the WMGs. Based on the site-specific potential project locations stated above, is it feasible to include an analysis of the project list (Appendix A)?

5 Potential Environmental Impacts

This section (nor the LACoH2Osheds website) does not reference the completion of an Initial Study per Section 15063©(1). How did the Lead Agency identify the effects determined not to be significant? Is there an explanation of the reasons for determining that potentially significant effects would not be significant?

Sincerely,

Enrique Huerta, M.S.

Appendix A
 Comment Letter to the LACFCD: Draft PEIR

| | Project Name | Project Proponent | Project Description |
|---|--|---|--|
| 1 | <u>25 mgd Sea Water Desalination Plant in West Basin</u> | West Basin Municipal Water District | <p>The project proposes to construct a 25mgd Seawater Desalination Plant in West Basin's service area for potable water use. First, a Demonstration Plant will be necessary to evaluate the water quality performance and treatment stability, assess efficient energy recovery devices, optimize operational performance utilizing full scale process equipment, and to acquire the necessary data to achieve regulatory compliance and approval. West Basin and its partners will perform the full battery of water quality analyses to ensure that the demonstration project meets all Federal and State Drinking Water Standards. With the knowledge gained by operating the Demonstration Plant, West Basin expects to move forward with the planning, design, and construction of a full scale 25,000 AFY seawater desalination and education facility. West Basin anticipates operating the Demonstration Plant for at least two years while plans are being completed and finalized for the full-scale plant. The Demonstration Facility is in design.</p> |
| 2 | <u>AMR Conversion Project</u> | Los Angeles County Waterworks District No. 29 | <p>The project consists of replacing the older water meters in Waterworks District No. 29. The District maintains approximately 7,700 water meters in Malibu and Topanga. About 40 percent of the meters are older than 15 years and 30 percent are 20 years or older. Meters lose accuracy over time, representing unaccounted water consumption in the District. Older meters typically under-measure water use. Replacing old water meters with automated meter reading (AMR) meters will yield timely, reliable water consumption patterns for detecting leaks and producing accurate customer bills. Higher bills with higher water use volumes will alert District customers about their water consumption habits, which is expected to encourage conservation. The current practice is to replace meters as the meters stop functioning or become unreadable. About 20% of the water meters in Malibu and Topanga have been replaced with AMR meters.</p> |
| 3 | <u>Agoura Road Gap Recycled Water System Expansion</u> | Las Virgenes Municipal Water District | <p>The project would extend the existing recycled water line along Agoura Road to serve existing customers who use potable water for landscape irrigation. Pipeline for this project is estimated at 9250 feet of 8 inch pipe and would connect to existing recycled water pipelines on both east and west sides of the extension. This would connect the gap that exists between Reyes Adobe Road and Lewis Road and improve the system hydraulics and reliability of service to customers. The estimated maximum daily demand for the Agoura Road Extension is 73 gpm.</p> |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| <p>4</p> | <p><u>Agua Amarga Lunada Canyon Habitat Restoration</u></p> | <p>Palos Verdes Peninsula Land Conservancy & City of Rancho Palos Verdes</p> | <p>Restore 20 acres at Agua Amarga Reserve, to provide habitat for the Federally threatened Coastal California gnatcatcher, the Federally endangered Palos Verdes blue butterfly, and the rare cactus wren. A one-mile trail in the Reserve continues to the coast. A year-round flow of water is discharged to the head of Lunada Canyon via a County of Los Angeles storm drain; the water then flows below ground through the canyon, the course of an historic blue line stream, and re-emerges at its confluence with Agua Amarga Canyon, also a blue-line stream that flows into the Santa Monica Bay. Invasive plant species provide little water infiltration and threaten to spread to the pristine lower canyon. The project will remove invasive plants, restore 18 acres of riparian and coastal sage scrub; install 2 acres of cactus scrub in highly degraded fuel modification areas; improve trails and add trail signage. Interpretive signage will educate hikers about creating wildlife-friendly fuel modification zone.</p> |
| <p>5</p> | <p><u>Aliso Creek - Limekiln Creek Restoration Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>Stormwater runoff would be diverted from Aliso Creek and from Limekiln Creek and stormwater runoff generated on site will be treated. In addition to providing water quality benefits, the project will result in the creation of self-sustaining riparian woodland vegetation and other re-vegetated areas, as well as providing recreational opportunities to area residents. The site has an area of approx. 11.8 acres and is currently used as a flood control facility, provides open space, and serves as part of Vanalden Park. Wet weather runoff and dry weather runoff from an approx. 12,091 acres that drains to the confluence of Aliso Creek and Limekiln Creek is going to be captured and conveyed to the project site for treatment. On-site generated flows will also be captured and treated. Proposed BMPs to treat captured water: Low flow channel diversions and pumping; Pre-screening devices, Bioswales, Vegetated detention basins, Landscaping with native upland and riparian species and Installing decomposed granite pathways.</p> |
| <p>6</p> | <p><u>Alondra Regional Park</u></p> | <p>Successor Agency, City of Compton</p> | <p>Alondra Regional Park is a multi-benefit project that serves disadvantaged communities while meeting IRWMP water management objectives. The entire site is currently an empty 18-acre lot owned by the City of Compton. This proposal is for Phase I of the project and covers 12 acres on the southern half of the parcel. The park provides recreational opportunities while improving surface water discharges into the Dominguez Channel Watershed. The project site sits on the drainage area and will capture 1.5AF of stormwater. The park features a swale and daylighted stream to remove nutrients and pollutants that otherwise flow to local waterways. The large biofiltration field will reduce peak flows, improve water quality and occasionally serve as a recreational field. Surface water quality improvements would help the region meet requirements under the Municipal Separate Storm Sewer System Permit. The project also includes native shrubs and trees that will increase habitat for birds, butterfly species and mammals.</p> |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| 7 | <u>Alternative Decker Canyon Recycled Water Extension</u> | Las Virgenes Municipal Water District | As with the original Decker Canyon Recycled Water Extension pipeline route, this alternate would primarily serve the Malibu Golf Club, the largest potable water user in the LVMWD service area. The 2007 Master Plan advocated that serving the golf course with recycled water could be an important strategy for relieving eventual stress on the potable system. The longer alternative route used in this project would also serve other demands along the way. In addition to the golf club, significant recycled water demands are expected to come from a new development (Triangle Ranch) and conversion of the existing Medea Valley ranchettes to recycled water use. The project is projected to deliver 459 AF/Y of recycled water, offsetting the same amount of potable demand that would occur if the extension were not built. |
| 8 | <u>Andrews Park Subsurface Storage, Use and Infiltration Project</u> | City of Redondo Beach | The project will consist of a diversion, conveyance pipes, a gross solids removal device (GSRD), an irrigation storage tank, and an infiltration gallery. Dry- and wet-weather flows will be diverted from the existing storm drain up to the maximum diversion flow rate and will then enter the storage tank through the conveyance pipe and GSRD. Once the storage tank reaches a depth of 1.5 feet, flows will be pumped to be used for onsite subsurface irrigation. When the storage volume of the irrigation tank reaches capacity, runoff will flow via an overflow pipe into the infiltration gallery, where the water will infiltrate subsurface soils. When continual flows fill the infiltration gallery and irrigation storage vault to storage capacity, diverted flows will back-up through the diversion piping and prevent additional flow diversion until capacity is freed up due to irrigation use and/or infiltration losses. |
| 9 | <u>Arroyo Seco Confluence Gateway</u> | Arroyo Seco Foundation | The Confluence Gateway Greenway Program will restore a 1/3 mile stretch of urban land alongside the Arroyo Seco, in the Arroyo Seco Scenic Byway Corridor, into a riparian greenway and open space park with native landscaping and a bicycle/pedestrian path. Not only would the project embody a first step in enhancing river access and recreation opportunities, it would provide a key link between the planned Los Angeles River greenways at the confluence and the Metro Rail station in the historic Lincoln Heights neighborhood, thus enabling light rail and bicycle access to the Arroyo Seco and the Los Angeles River. Ultimately, the Arroyo Seco greenway is envisioned to extend to South Pasadena, and this initial segment at the confluence would be an important hub in the regional river parkway and bicycle trail network. |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| <p>10</p> | <p><u>Arroyo Seco North Branch Creek Daylighting</u></p> | <p>Arroyo Seco Foundation</p> | <p>Naturalize north branch storm drain and restore stream through Sycamore Grove Park. Primary Objectives Addressed by the Project: By re-establishing an urban stream, this project addresses water quality, riparian habitat restoration, groundwater recharge, flood management, and public education. The Sycamore Grove Park site is approximately 800 feet long and 400 feet wide. This 8-acre site is located in northeast Los Angeles and situated west of the SR-110 (). This site encompasses Sycamore Grove Park and is bounded by South Avenue 49 to the northeast, the SR-110 to the east, medium density residential uses to the south, and North Figueroa Street to the west. Sycamore Grove Park is a landscaped area consisting of a large lawn, playground, and parking area. The North Branch tributary is contained within a storm drain beneath Sycamore Grove Park.</p> |
| <p>11</p> | <p><u>Baldwin Lake</u></p> | <p>Los Angeles Arboretum Foundation</p> | <p>For centuries the waters of Baldwin Lake have sustained human endeavor. A rich historic site, its role began in the Native America period when springs and marsh, precursors to today's lake, supported nearby habitation. In the late 19th Century, Elias Jackson Baldwin chose the Lake as the center for agriculture and land development that shaped the establishment of the east San Gabriel Valley. Today, as the centerpiece of the Los Angeles County Arboretum, the Lake is an educational and scenic resource serving hundreds of thousands of visitors. Looking to the future, Baldwin Lake is envisioned as a model for community-based environmental stewardship and regional approaches to water management and conservation. Ideally located at the edge of the Raymond Basin aquifer, the Lake offers great potential as the nexus for water management and ground water recharge for the Arboretum's 127 acres, as well as the surrounding urban watershed. Educational programming that interprets the history of the Lake, particul</p> |
| <p>12</p> | <p><u>Ballona Creek Water Quality and Beach Improvement & Beneficial Use Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>Project is to implement the valuable uses of stormwater and to improve the water quality in Ballona Creek Watershed. Ballona Creek Low Flow Treatment Facility (LFTF), also known as North Outfall Treatment Facility (NOTF), is one of several projects proposed in Ballona Creek TMDL Implementation Plans for Bacteria, Metals, and Toxic Pollutants. The LFTF includes a 1 million gallon storage facility and has the capacity to treat up to 150 cfs, including screening of coarse, fine sediments, and disinfection with sodium hypochlorite. NOTF was constructed in 1987 by City of Los Angeles. The project proposes to use the existing treatment facility and construct a low-flow diversion structure in Ballona Creek Channel to divert and treat full dry-weather flow and partial wet-weather flow. 65 percent of Ballona Creek Watershed (85 square miles) is located upstream of the Project, with average dry-weather flows ranging from 14 to 25 cfs. Treatment will include coarse screens, sedimentation, filtration, and disinfection.</p> |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| 13 | <u>Be A Water Saver Water Conservation Program</u> | City of Burbank Water and Power | <p>The City of Burbank proposes to expand and increase water conservation through the expansion of a comprehensive indoor/outdoor financial incentive program that will result in immediate and sustainable water savings. The proposed Rebate Program to install 1,300 HE toilets, replace 300,000 square feet of turf with native landscapes, capture and reuse rain water 3 million gallons of rain water with rain barrels, and increase water conservation education efforts will save an estimated 500 AF of water annually. Grant funding for the proposed project will facilitate greater water savings by providing funding for greater levels of participation sooner than would be realized under typical funding efforts. Furthermore, these benefits will be realized faster by utilizing a proven system for conservation, a truly ready to proceed project. This project has the potential to double participation levels.</p> |
| 14 | <u>Bette Davis Park Water Recycling Project</u> | LADWP | <p>This project will consist of planning, design, and construction of approximately 4,625 feet of new 8-inch PVC and Ductile Iron recycled water pipeline to extend Glendale's recycled water distribution system from the intersection of Flower St. and Grandview Ave. to Bette Davis Park. Approximately 4,300 feet of pipeline will be installed within Glendale's city right of way. Through an Agreement with the City of Glendale, this project will be designed and constructed by Glendale's contractors and LADWP will reimburse Glendale for the costs. This will reduce the City's potable demand for non-potable uses. This project will offset up to 75 AFY of potable water with recycled water.</p> |
| 15 | <u>Big Dalton Sluiceway Rehabilitation</u> | Los Angeles County Flood Control District | <p>This project will upgrade the sluiceway to function as a low level outlet for regulating flows under high reservoir pressure and repair various facility components for the dam. The existing sluice gate at the upstream end is to be replaced with a new heavy duty hydraulic actuated gate, the sluiceway is to be lined with new pipe for the entire length, and a throttling valve is to be installed at the outlet. Storm releases through the sluiceway will reduce the rate of sediment accumulation and prevent sediment deposits at the face of the dam. Incoming sediments during storm flows could be routed through the reservoir to restore a more natural sediment transport system and maintain reservoir capacity</p> |
| 16 | <u>Big Dalton Spreading Grounds Improvements</u> | Los Angeles County Flood Control District | <p>The proposed project will modify and motorize the diversion box at Big Dalton Spreading Grounds to better control flows taken into the facility. The spreading basins will be reconfigured to increase percolation rates and storage capacity. An intake will be constructed from Little Dalton Diversion Channel so that additional storm flows can be diverted to the facility. A proposed outlet from Metropolitan Water District's PM-26 imported water line to the Little Dalton Diversion channel will enable imported water to be recharged at the spreading grounds.</p> |

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| 17 | <u>Big Rock Bypass</u> | Los Angeles County Waterworks District No. 29 | The project consists of constructing three 18-inch diameter bypass water pipelines approximately 1,500 feet in length within the areas of active landslides along Pacific Coast Highway. This bypass will serve as a permanent replacement of an existing 30-inch diameter water pipeline that has experienced significant breaks resulting in large water loss. The proposed pipeline will be raised to a shallow trench and protected by a reinforced concrete box covered with steel plates to provide quick access if any leakage occurs. In addition, 18-inch Flexible Expansion Joints will also be installed at several locations with the areas of the active landslides to prevent damage or rupture of pipelines from ground movement. |
| 18 | <u>Big Tujunga Dam Spillway Dam</u> | Los Angeles County Flood Control District | Construction of a dam within the spillway at Big Tujunga Dam to increase the maximum storage capacity of the reservoir by approximately 705 acre-feet. |
| 19 | <u>Big Tujunga Reservoir Sediment Removal</u> | Los Angeles County Flood Control District | The 2009 Station Fire was the largest fire in Angeles National Forest recorded history and burned over 160,000 acres before containment on October 16, 2009. Approximately 87% of the watershed tributary to Big Tujunga Reservoir was affected. On average, a watershed will take five years or more to recover from a forest fire burn. During this time, increased amounts of debris production are anticipated from the denuded ground surface. Based on the 2010-11 storm season surveys, the total amount of sediment in the Big Tujunga Reservoir is approximately 2 million cubic yards. The County of Los Angeles Department of Public Works on behalf of the Los Angeles County Flood Control District proposes a sediment removal project to permanently remove up to 4.4 mcy of sediment from Big Tujunga Reservoir. Sediment will be excavated and transported using low emission trucks or conveyor belt to Maple Canyon Sediment Placement Site adjacent to Big Tujunga Dam. The project will be completed over four years starting in the sum |
| 20 | <u>Boulevard Pit Stormwater Capture Project</u> | LADWP | Acquire and develop Boulevard Pit into a multi-use retention and recharge facility to enhance stormwater conservation. |
| 21 | <u>Branford Spreading Basin Cleanout and Pump</u> | Los Angeles County Flood Control District | Branford Spreading Ground has very low percolation rates compared to the Tujunga Spreading Ground directly across the Tujunga Wash Channel. This project will install a pump from Branford Spreading Ground to direct water into the Tujunga Spreading Ground leading to more groundwater recharge. In addition, the project will clean out the clogging layer at the bottom of basin, which will also improve percolation rates. |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| 22 | <u>Broadway Neighborhood Stormwater Greenway Project</u> | City of Los Angeles Bureau of Sanitation | In partnership with Water Replenishment District of Southern California and its "Regional and Distributed Stormwater Capture Feasibility Study," the proposed project will design and implement stormwater Best Management Practices (BMPs) in the City of Los Angeles with the primary goals of TMDL compliance and stormwater infiltration. Three levels of BMPs will be developed; local parcel based Low Impact Development (LID) for 8 acres (60 residential parcels), neighborhood scale LID for 12 acres (3 residential streets and 2 blocks of commercial streets), and a sub-regional scale facility for 30 acres of mixed land uses. The local and neighborhood BMPs will capture and infiltrate all dry-weather flow and up to the ¼ inch storm. The sub regional BMP will capture up to the 2 inch storm for 30 acres. The sub regional BMP will also receive dry-weather flows from 228 acres of mixed land uses. Designs will be standardized to remote widespread implementation. |
| 23 | <u>Bull Creek Stormwater Capture</u> | Los Angeles County Flood Control District | Historical records show that an annual average of 625 acre-feet of water passes through Bull Creek. All flows from Bull Creek are lost to the ocean via the Los Angeles River. This project proposes conserving the lost water by diverting flows from the new LADWP facility using a rubber dam and conveying flows through a pipeline to Pacoima Spreading Grounds where it would be captured and recharge the local aquifer. |
| 24 | <u>Bull Creek Los Angeles Reservoir Water Quality Improvement Project</u> | LADWP | Plan, design, and construct stormwater conveyance facilities for compliance with the Enhanced Surface Water Treatment Rule. Facilities will be designed according to standards adopted by Department of Water Resources, Division of Safety of Dams. Improvements include widening a portion of the Bull Creek Extension Channel, realigning a section downstream of the widening, construction of a new diversion structure and overflow structure, and improvements to inlet structures. The Los Angeles Reservoir spillway will be removed from service. Proposed design facilitates a future stormwater capture program. |
| 25 | <u>Burbank Partnership Water Recycling Project</u> | LADWP | The Burbank Partnership Water Recycling Project involves the planning, design, and construction of approximately 27,000 feet of recycled water pipelines in the North Hollywood area. The three individual segments that comprise the project are the Chandler Boulevard Bike Path segment, the Whitnall Dog Park segment, and the North Hollywood Park segment. These segments will connect to Burbank's recycled water distribution system at three separate connection points and will be served by recycled water treated at the Burbank Water Reclamation Plant. This project is expected to offset up to 285 AFY of potable water with recycled water. |

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| <p>26</p> | <p><u>Burbank Water and Power Recycled Water System Expansion, Phase 3</u></p> | <p>City of Burbank Water and Power</p> | <p>The third phase of the City of Burbank's recent recycled water system expansion. As a result of previous phases, over 20 miles of recycled water pipelines have been installed resulting in the distribution of over 2,300 AF of recycled water annually; amounting to 13% of the City's water demand by the end of 2014. The City will continue expanding its recycled water distribution to offset potable water use in this phase by constructing two new recycled water pipelines known as, the LA Equestrian Center (LAEC) and the Naomi pipelines. The LAEC is located on the borders of the cities of Burbank and Los Angeles consisting of landscape areas, stables, offices and corrals; the latter requiring dust control with water trucks. The Naomi pipeline would primarily provide recycled water to a very large commercial data center and smaller customers. Completion of these pipelines will increase recycled water distribution by an estimated 61 AFY, resulting in a direct and immediate potable water savings of 61 AF annually.</p> |
| <p>27</p> | <p><u>C Marvin Brewer Desalter Brackish Groundwater Facility Expansion</u></p> | <p>West Basin Municipal Water District</p> | <p>The Desalter currently has the capacity to extract up to 2,000 acre-feet annually of brackish water. In 2003 the old wells at the site were decommissioned and construction began in 2005 for the first replacement well. The facility became operational in 2006 at a reduced capacity using the new well and the original RO unit. The facility has not been operating to its full capacity since it came online again in 2007 because of water quality issues. Funding is also needed to correct the water quality problems in order to get the facility to its full operating capacity. The proposed 500 AFY capacity expansion will allow the facility to become operational at its full capacity of 2,000 acre-feet per year. The site is already owned by California Water Service Co. and leased by West Basin and is developed as a desalting facility. The expansion will include the installation of a new production well, and the addition of an acid pretreatment unit and a reverse osmosis treatment unit on the existing site.</p> |
| <p>28</p> | <p><u>CITYWIDE STORM DRAIN CATCH BASIN CURB SCREENS</u></p> | <p>CITY of CALABASAS</p> | <p>Installation of storm drain catch basin curb screens at all applicable locations citywide. These screens are the stainless variety approved curb by Los Angeles County. The purpose of the curb screens is to stop trash from entering the catch basins which eventually discharge into both the Los Angeles River and Malibu Creek watersheds. By implementing this project, City of Calabasas will be in compliance with the Trash TMDL both for LA River and Malibu Creek watersheds. Based on studies done, reduction in trash and debris loadings will also reduce Bacterial and sediment loading in the watershed. By implementing the project, disadvantaged communities downstream of Calabasas in Los Angeles River will benefit from cleaner water. The scope work consists of measuring all catch basin openings, drafting RFP with detailed specifications, soliciting proposals from the list of Los Angeles County's approved vendors, negotiating contract, implementation/construction, monitoring and reporting.</p> |

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| 29 | <u>Caballero Creek & Los Angeles River Confluence Park</u> | Mountains Recreation and Conservation Authority | <p>The project will convert a 1.55 acre vacant parcel at the confluence of the Los Angeles River and Caballero Creek into a publicly-accessible natural park with habitat restoration, paths, site furnishings, water quality improvements, waterfront-access, and educational amenities. The design utilizes an innovative mixes low-tech mechanical and biological methods to filter and infiltrate storm waters increases regional water quality. The project creates a multi-benefit park that provides ecosystem services as well as cultural services, like recreation and eco-tourism. The project concept was developed in partnership with the City and County of Los Angeles who have committed to retain ownership, maintenance and operation responsibilities while allowing the Mountains Recreation and Conservation Authority (MRCA) to oversee design and construction. Nearby Reseda High School will monitor the project and use it for hands-on learning and community service opportunities.</p> |
| 30 | <u>Camino San Rafael Recycled Water Project</u> | Glendale Water & Power | <p>This project will consist of design and construction of approximately 8300 feet & 6000 feet of new 4"and 8" PVC recycled water pipeline, respectively. The project also consists of installing a two booster stations. This project will extend Glendale's recycled water distribution system to provide recycled water for common area irrigation to the Camino San Rafael Homes. This project will offset up to 90 AFY of potable water with recycled water. This will reduce the City's demand on potable water.</p> |
| 31 | <u>Carson Regional Water Recycling Project</u> | West Basin Municipal Water District | <p>The Carson Regional Water Recycling Expansion Project includes the expansion of the existing recycled water treatment facility and the construction of several laterals. This is a new demand on the system and will require expansion of treatment process capacity and conveyance to include; lateral pipelines, pump stations, treatment units, storage tanks, and waste management facilities. The BP Refinery requires single-pass reverse osmosis treatment units. BP Refinery is estimating a need of 2,100 acre-feet per year (AFY). The project will be further expanded to serve customers within the City of Los Angeles' jurisdiction for the refineries in the port area. The City will need recycled water to satisfy a use of 9,300 AFY. The City is in the preliminary design stage.</p> |

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| <p>32</p> | <p><u>Chase Street Stormwater Greenway</u></p> | <p>City of Los Angeles Bureau of Sanitation, Watershed Protection Division</p> | <p>The Project will provide a street-end interpretive area on Bull Creek at Chase Street, and install a Stormwater Greenway along Chase Street from the eastern street end on the north side right-of-way to Hayvenhurst, and on the north and south right-of-way to Gothic. Vegetated planters in the parkways will capture and infiltrate street runoff, and will provide storm water filtration, and tree shading. The Bull Creek street-end will feature a native landscape as habitat and a recreational rest stop along the channel, and will provide an interpretive site for wildlife selected and supported by the specific native planting used in the project. A channel diversion from Bull Creek, with a pre-filter and lift station, will transfer runoff through a pipeline to a local Sod Farm where it will be used to irrigate up to 30-commercial acres. The project will integrate water conservation goals (LADWP), Storm water objectives (BOS), Economic enhancements to city property (LAWA), & public health and recreation benefits.</p> |
| <p>33</p> | <p><u>Chemical Study - Rio Hondo</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project will install a chemical treatment system at the Rio Hondo Coastal Spreading Grounds to remove sediment fines from the water and improve the percolation rates. A Percolation Optimization Investigation (POI) report was done by Montgomery Watson Harza (MWH) in 2003 to evaluate the County's spreading grounds and the impact of suspended solids on percolation rates. The report made a number of recommendations and the recommendations will be implemented at the Rio Hondo flood control facility. The project will install a coagulant chemical feeder and mixer at the grounds intake. This will allow the silt in the stormwater to coagulate and settle prior the cleaner water to flowing into spreading grounds. When this occurs, the spreading grounds will be able to percolate more water, thus conserving and recharging more groundwater.</p> |
| <p>34</p> | <p><u>Chevy Oaks Recycled Water Project</u></p> | <p>Glendale Water & Power</p> | <p>This project will consist of design and construction of approximately 920 feet, 1900 feet & 2100 feet of new 4", 8" and 12" PVC recycled water pipeline, respectively. The project also consists of installing a small booster station. This project will extend Glendale's recycled water distribution system to provide recycled water for irrigation to the Chevy Oaks Homes. This project will offset up to 30 AFY of potable water with recycled water. This will reduce the City's demand on potable water.</p> |
| <p>35</p> | <p><u>City of Carson Rain Barrel Give Away Phase II</u></p> | <p>City of Carson, Development Services Department, Engineering Services Division</p> | <p>At completion of a prior grant, a modest amount of money remained unused. With the acquiescence of the granting agency, the City of Carson purchased 16 rain barrels and set up a website lottery system in order to award them to residents. The response was overwhelming and with no advertising over 100 contestants were disappointed to not receive a rain barrel. This proposal would lead to the purchase of an additional 1,000 rainbarrels (depending on cost and grant amount) to restock the lottery reserves. Advertising and management of the program would be provided as part of the City of Carson grant match. More information on Fiskar Rain Barrels is available at http://www2.fiskars.com/Products/Yard-and-Garden/Rain-Barrel-Systems</p> |

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| <p>36</p> | <p><u>City of Monrovia Fire Department - Training Center Water Recycling Project</u></p> | <p>Upper San Gabriel Valley Municipal Water District</p> | <p>Upper District in cooperation with the City and Fire Department of Monrovia are submitting this project incorporating both dry and wet weather runoff capture, treatment and storage for the new Regional Training Center. Once collected, the fire training water and the 85th percentile of a 24 hour storm event (as required by the City's MS4 permit) will be treated before being discharged into storage holding tanks which will store the treated water for future reuse by the training facility. The objective is to offset the use of potable water at the facility, eliminate storm water discharge and capture wet-weather storm water runoff. Finally, if the wet-weather event is larger than the 85th percentile, then provisions are being considered to treat as much of the additional wet-weather storm water runoff via a natural infiltration gallery (bioswale) before being discharged into the City's storm water system.</p> |
| <p>37</p> | <p><u>Cogswell Dam Inlet/Outlet Works Rehabilitation Project</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project will consist of refurbishment and upgrades to the outlet works, tunnels, and repair of various facility components at Cogswell Dam. The project will increase operational effectiveness for flood control and water conservation. The project will involve: a complete overhaul of the dam's entire inlet/outlet works; upgrade on the electrical control equipment; repair of downstream facilities; structural repairs on the upstream facing slab; security upgrades; and other various repairs essential for maintaining and operating a flood control facility. The overall project intent is to improve Cogswell Dam for maintaining dam safety, increased efficiency and reliability of flood control operations, and enhancement of water conservation efforts.</p> |
| <p>38</p> | <p><u>Cold Creek Diamond Acquisition</u></p> | <p>Mountains Restoration Trust</p> | <p>The project will acquire 4.87 acres (APN 4455-021-040) of natural undisturbed open space within the existing 1348-acre Cold Creek Preserve in the Santa Monica Mountains National Recreation Area. The acquisition is part of the state-funded Cold Creek Restoration Plan designed to acquire 539.06 acres to protect the wild and scenic, perennial Cold Creek, the habitat linkage between Topanga State Park and Malibu Creek State Park, the values of Los Angeles County's Significant Ecological Area #9, and a future venue for environmental education, research, and recreation. The area includes significant oak, sycamore, and willow communities, supports a range of wildlife including mountain lion, gray fox and raptors. The pure waters once supported the federally-listed endangered southern steelhead trout.</p> |
| <p>39</p> | <p><u>Conservation Budget Based Tiered Rate Structure</u></p> | <p>West Basin Municipal Water District</p> | <p>This project helps our customer agencies to develop a water conservation, budget-based rate structure for their customers. The project is beneficial to West Basin's cities and retail water agencies because it provides a pricing structure that will incentivizes its customers to conserve water. This pricing method has been used in other parts of the State and has been successful at reducing water usage and regarding those who do so with lower rates on their water bill.</p> |

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| 40 | <u>Conversion of 237th Street Sump Tributary to Machado Lakes for Nutrient and Toxics TMDL BMPs</u> | City of Torrance | <p>This project would convert the 237th St. Sump (4.5 acre-feet) into a retention/infiltration basin BMP for Toxics and Nutrient TMDL compliance and provide open spaces for wildlife habitat. This project would install diversion structures that would divert the first 4.5 acre-feet of stormwater from a 71 acre tributary area away from the system tributary to Machado Lake (Wilmington Drain) to be retained and infiltrated in this basin. Trash screens would be installed at the catch basin in the watershed by a separate project. During the dry season the basin would remain an open space for wild life and retain urban run-off and nutrients from 71 acres. By diverting stormwater back into this basin, the City and County storm drain systems would have more capacity during rain events. This project would also increase groundwater recharge.</p> |
| 41 | <u>Creek Crossings Repairs</u> | Los Angeles County Waterworks District No. 29 | <p>This project consists of repairing corroded and deteriorated sections of aboveground pipeline and developing a Corrosion Monitoring, Control, and Maintenance Program. The Waterworks District 29 transmission water pipeline runs along the Pacific Coast Highway in Malibu. The proposed pipeline repairs are located at eight creek crossings attached to bridge structures. The project will significantly prevent future leaks and breaks in the main transmission pipeline which is the primary source of water supply for Malibu and Topanga. The development of a maintenance program is essential to maintaining water supply reliability for the region.</p> |
| 42 | <u>Deauville Distributed Water Reuse Project</u> | City of Santa Monica | <p>The project would harvest stormwater and brackish groundwater for high level treatment and non-potable use around the City, replacing the use of imported potable water. The City would install a 1.3 million gallon storage tank next to the Santa Monica Pier, Deauville lot, to harvest stormwater from the Pier sub-watershed during rain events and brackish groundwater during dry periods. The project would have an optional overflow to an infiltration gallery. A saline extraction well would be installed in sand next to the storage tank. The project would install pre-treatment catch basin inserts in the drainage area or a centralized hydrodynamic separator-screening device to remove trash and debris from stormwater. Modular nanofiltration (NF) and a saltwater reverse osmosis (RO) treatment systems at the site would treat these stored local water resources to high quality for various uses around the City in the existing recycled water system. All concentrated brine by-product would be sent to the sanitary sewer.</p> |
| 43 | <u>Decker Canyon Recycled Water System Extension</u> | Las Virgenes Municipal Water District | <p>The Decker Canyon recycled water pump station, pipeline, and tank would furnish recycled water primarily to Malibu Country Club Golf Course and Tract 47962-Sycamore Canyon Estates near the pump station location and other nearby ranchettes. The project would comprise a high-lift pump station, ~23,000 linear feet of pipeline along Westlake Blvd and Decker Canyon Rd, and a 60-foot diameter concrete tank near the corner of Decker Canyon Rd and Mulholland Hwy. Approximately 229 AF of recycled water per year would be used by this project.</p> |

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| <p>44</p> | <p><u>Del Rey Lagoon Water Quality Improvement Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>The Del Rey Lagoon Water Quality Improvement Project proposes to improve water quality by reducing the source and amount of fecal indicator bacteria in the Del Rey Lagoon and surrounding waterbodies such as the Santa Monica Bay and Dockweiler Beach. Project components include stormdrain systems, vegetated swales, irrigation system retrofit, and drainage modifications. Education and outreach to the public will also be included in the project scope. The vegetated swales are designed to capture, retain, and treat runoff from the adjacent residential, transportation, and landscaped area during dry weather and partially during wet weather. Existing irrigation system will be retrofitted with a smart irrigation system to reduce excessive irrigation runoff, thereby conserving water and reducing flow. Catch basins and storm drains will be installed to capture and divert excess wet-weather flow into the sewer system. Project also includes a nature viewing deck and educational displays that explain local flora-fauna.</p> |
| <p>45</p> | <p><u>Demonstration Gardens at Los Angeles County Fire Department Stations</u></p> | <p>West Basin Municipal Water District</p> | <p>This project involves the installation of drought-tolerant demonstration gardens at a minimum of five fire stations throughout the West Basin service area. These gardens will replace turf and/or concrete areas that are directly in front of the fire stations in order to provide a maximum visibility to the public. The gardens will be utilizing drought-tolerant and/or native plants that will be designed by professional landscape designers that specialize in climate-appropriate plans and trees. The main goal is to provide water conservation and runoff reduction measures and secondarily to educate the public about the measures so that they can create these spaces at their own homes. West Basin strives to reduce demands by implementing conservation and education programs throughout the communities it serves. This project aims to continue implementing outdoor water conservation/education programs to influence the public to create these spaces in their own homes.</p> |
| <p>46</p> | <p><u>Devil's Gate Dam and Reservoir Water Conservation</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project proposes to conserve stormwater by holding a reservoir pool behind Devil's Gate Dam and diverting the water to Eaton Wash Dam and Eaton Wash Spreading Grounds for poststorm groundwater recharge. A pump will be installed in the Devil's Gate Dam reservoir and water will be pumped out and conveyed through over 26,000 feet of pipeline to Eaton Wash Dam where it can be held for recharge at downstream spreading ground facilities.</p> |

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| <p>47</p> | <p><u>Devil's Gate Reservoir Sediment Removal and Management Project</u></p> | <p>Los Angeles County Flood Control District</p> | <p>The 2009 Station Fire was the largest fire in Angeles National Forest recorded history and burned over 160,000 acres in the San Gabriel Mountains. Approximately 68% of the watershed tributary to Devil's Gate Reservoir was burned and as a result of the storms that occurred in the two wet seasons after the fire, sediment levels in the reservoir increased by more than one million cubic yards. The County of Los Angeles Department of Public Works on behalf of the Los Angeles County Flood Control District is planning a sediment removal project of up to 4 million cubic yards. A sediment removal project from behind Devil's Gate Dam is vital to the health of the Arroyo Seco flood control system. The goal of this project is to restore flood control capacity and establish a reservoir configuration more suitable for routine maintenance activities. The project will last approximately 5 years with construction starting in 2014.</p> |
| <p>48</p> | <p><u>Dominguez Channel Greenway Phase III</u></p> | <p>Los Angeles County Flood Control District</p> | <p>The project will consist of development of a native landscaped greenway and bikeway/pedestrian trail along the north side of the Dominguez Channel, between Vermont Av and Normandie Av. The project will include the following: access/maintenance road improvements for the new/improved bikeway; AC repair and replacement, slurry seal, American Disability Act (ADA) access ramps and bikeway/pedestrian signage and striping. Landscaping improvements include landscaping using native and drought-tolerant plants, irrigation, as-needed fencing repair/replacement. Educational/interpretive signage will also be included along the bikeway/pedestrian trail. A study is also recommended to consider additional pedestrian crosswalks with street lamp lighting for added safety. The project is currently on hold until the LACFCD completes a study to address deficiencies in its levees.</p> |
| <p>49</p> | <p><u>Dominguez Channel Trash Reduction Via ARS Installation in the City of Carson, CA</u></p> | <p>City of Carson, Development Services Department, Engineering Services Division</p> | <p>This project would install Automatic Retracting Screens (ARS) in the 1800 Storm Drain Catch Basins in the City of Carson. The proponents favor ARS to collect trash at street level where the trash can be quickly and cost effectively collected weekly by the existing City Street Sweeping Contractor and eliminates the need for other more costly and difficult to maintain downstream trash control systems. This project anticipates the continuing development of local and state waterway trash control efforts and alleviates the need to develop these expensive federal, state and local regulatory mandates. In comparison to other "downstream" trash control systems, the maintenance status of ARS is easily assessed and visible to the public, which is then able to report those locations where maintenance is warranted. Since ARS systems are located in the street sweeper path, maintenance (trash collection) occurs weekly, the trash stays dry and is less subject to the degradation that generates other pollutants (bacteria).</p> |

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| 50 | <u>Dominguez Gap Spreading Grounds West Basin Percolation Enhancement</u> | Los Angeles County Flood Control District | The proposed project will increase the percolation within the spreading grounds facility in order to increase groundwater recharge. The preliminary scope includes removing between 5 to 10-feet of clay sediment or installing vertical trenches/drains through the poorly draining strata in the facility's west basin. Preliminary studies have been conducted including boring samples which will be used to further develop conceptual plans and estimate project benefits. |
| 51 | <u>Duck Farm River Parkway Phase 1 - Water Enhancement Project</u> | Watershed Conservation Authority | The Duck Farm River Park, once a natural floodplain, has been disconnected from the natural processes of the river for decades as a result of urbanization & flood management. The Project reintroduces natural systems through a riparian/pocket wetland/seasonal streambed that improves both habitat and collect, filter & infiltrate stormwater flows onsite, as well as stormwater from the adjacent freeway in collaboration w/Caltrans. The project will transition irrigation source (annually forecasted to require 19M gallons) from imported, highly processed potable water to either local groundwater or recycled water as its source of supply. The public will benefit by being reconnected to nature, the river, & from educational & interpretive programming possible at the site. This change in supply will reduce greenhouse gases & the parks carbon footprint. Outdoor classroom & interactive educational experiences with children will inspire local youth to learn more about our watershed, water conservation & sustainability |
| 52 | <u>Eaton Spreading Grounds Intake Improvements</u> | Los Angeles County Flood Control District | The project will increase the intake and storage capacity of the Eaton Wash Spreading Grounds facility. This will improve the facility's ability to recharge storm water into the groundwater basin, thus greatly increasing the sustainable local groundwater supply that is vital for the region. Los Angeles County Flood Control District will replace the vehicle access slab with a metal grate over the spreading grounds drop intake channel and replace the current diversion flashboards with an inflatable gate within the intake channel. These improvements in Eaton Wash Channel will better direct flows into Eaton Wash Spreading Grounds, thereby increasing its intake capacity. Basin 1 will be enlarged to increase the facility's storage capacity. The project will include improvements to the property along Sierra Madre Boulevard that will significantly improve the sustainability, aesthetics, and safety of the public walkway and street view. Two driveway entrances will be improved by increasing the gate set-back fu |
| 53 | <u>Eaton Wash Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | The dam outlet works rehabilitation project involves the removal of the existing outlet tower and gate house. Once these major components are removed, construction of a gate valve, debris racks, hydraulic power system with a block house, control systems, modification of the outlet works structure, and rehabilitation of the gate valves will commence. It will provide necessary erosion protection measures and improve water quality during low-flow releases from the dam. |

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| 54 | <u>Elysian Reservoir Water Quality Improvement Project</u> | LADWP | LADWP is planning to cover the existing Elysian Reservoir in order to meet US EPA water quality regulations. In April 2012, the Board of Water & Power Commissioners certified the Environmental Impact Report and approved the floating cover alternative. The project will install a flexible membrane floating cover over the existing water surface. Also included are supporting infrastructure (piping, valves, liner) and site improvements (roadway paving, fencing). The reservoir will operate in the same manner, providing potable storage for the distribution system. Construction is anticipated to being by 2015. In conjunction with the project, a Community Parks Fund was established by the Board of Commissioners. The fund is to be used for unspecified public purposes related to community parks. Best efforts will be made to locate enhancements primarily in the Elysian Park area, working together with the community and other City of Los Angeles agencies. |
| 55 | <u>Encinal Emergency Connection</u> | Los Angeles County Waterworks District No. 29 | The project consists of adding a new emergency water source to supply Waterworks District No. 29 through a new interconnection along Encinal Canyon Road at the District boundary with Las Virgenes Municipal Water District (LVMWD). This interconnection would bring water from Metropolitan Water District of Southern California through LVMWD to provide additional supply to the District during emergencies. |
| 56 | <u>Foothill Municipal Water District Recycled Water Project</u> | Foothill Municipal Water District | Three hydrologic areas were studied for the development of satellite recycled water facilities. Foothill Municipal Water District (FMWD) is pursuing the construction of one facility near Berkshire Place in La Canada at this time. This project will treat wastewater using a membrane bioreactor and recharge the product into the groundwater basin using infiltration galleries underneath athletic fields for multi-beneficial uses. Cal Poly Pomona has partnered with FMWD and is developing a model that will also capture stormwater for recharge using the same infiltration galleries. A conservation and education component has also been added. Landscaping will be done to showcase drought tolerant plants at both the MBR site and school site. Tours will be available so that students may learn about stormwater capture, groundwater, recycled water, conservation and the watershed since the Arroyo Seco and Hahamongna Park are across the street. This 0.250 MGD plant will save enough energy annually for 80 homes in So. Cal. |
| 57 | <u>Freeway Runoff Infiltration Demonstration Project</u> | City of Santa Monica | Divert runoff from a section of the Santa Monica Freeway within the City of Santa Monica, treat and infiltrate within an area near the freeway, either a landscaped area or parking lot. The infiltration zones will be augered, if necessary to by-pass poor permeable soils. There will be pre-treatment before infiltration to remove trash, oil/grease, sediments. It will be a passive system, i.e. gravity-fed and low into the system. The treatment-infiltration areas will be areas either already with a storm drain in the area, or the creation of new ones to harvest the runoff. The goal will be to keep runoff out of the existing storm drains and out of the storm drain system. |

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| 58 | <u>Glen Oaks Storm Water Capture Project</u> | Los Angeles Beautification Team | The Prop O funded phase I, the installation of six bio-swales and 4 dry wells. This watershed in an average rainfall year brings 300 acre feet of water to Glen Oaks Blvd. Phase I was completed in January 2014 and is currently capturing an estimated 30 acre feet per year leaving approximately 270 acre feet available for storm water capture. Phase II will consist of an additional eight dry wells for an estimated \$625,000, plus the cost of City Services (Design fees, permits and over site), that will capture an additional 40 to 45 acre feet annually. |
| 59 | <u>Glendale Narrows Habitat Enhancement Project</u> | Council for Watershed Health | The Glendale Narrows Riverwalk will provide approximately one mile of multi-use recreation along the Los Angeles River. There are several invasive plant species that are prevalent adjacent to the Riverwalk in the Glendale Narrows area of the Los Angeles River. These invasive plant infestations jeopardize the improvements to water quality and degrade habitat for native aquatic, avian, reptile, amphibian, and invertebrate species. In collaboration with the City of Glendale Community Services & Parks Department, the Council for Watershed Health (Council) proposes to develop and manage a 3-4 year restoration project to map, control, and monitor invasive arundo and invasive palm trees in the Riverwalk project area in the Glendale Narrows sections of the Los Angeles River. A native plant propagation and replanting effort is also proposed to reestablish riparian plants. |
| 60 | <u>Goldsworthy Groundwater Desalter Expansion</u> | City of Torrance | The Goldsworthy Desalter (Desalter) treats water from the saline plume in the West Coast Groundwater Basin for drinking water. The brackish water is treated to meet or exceed municipal drinking water standards through the use of a reverse osmosis system. The existing Desalter produces approximately 2,000 acre-feet of potable drinking water per year. When the Desalter was originally constructed in 2002, it was designed for expansion to over 5000 acre-feet per year of drinking water. In 2012 the Water Replenishment District of Southern California had a Feasibility Study for the Expansion of Desalter prepared for and approved by the U. S. Bureau of Reclamation. The expansion would involve the installation of additional reverse osmosis treatment units, construction of two additional source water wells, transmission mains and related appurtenance. The project also diverts waste water away from Santa Monica Bay where discharges cause TMDL violations for bacteria. |

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| 61 | <u>Groundwater Reliability Improvement Project (GRIP)</u> | Water Replenishment District of Southern California | The overarching goal of the GRIP Recycled Water Project is to offset the current use of imported water by providing up to 21,000 acre-feet per year (AFY) of recycled water as a reliable supply source for groundwater basin replenishment via the Montebello Forebay within a reasonable timeframe. The source for the recycled water will be the Los Angeles County Sanitation Districts' San Jose Creek Water Reclamation Plant (SJCWRP). Tertiary treated recycled water, advanced treated recycled water (microfiltration, reverse osmosis and advanced oxidation), or a combination of the two will be conveyed from the SJCWRP via an existing pipeline or possibly a new pipeline for recharge in the Central Groundwater Basin through the Montebello Forebay Spreading Grounds or potentially a new injection well field. |
| 62 | <u>Groundwater System Improvement Study</u> | LADWP | The purpose of the Groundwater System Improvement Study (GSIS) is to perform an independent study to identify, characterize, and evaluate emerging water quality constituents for the San Fernando Basin (SFB). This will include a comprehensive analysis that will provide recommendations in developing short and long-term projects, including the design and construction of groundwater treatment facilities, to maximize the use of the groundwater supply in the SFB. As a part of the GSIS, the LADWP will be drilling approximately 26 new groundwater monitoring wells, and perform short-term monitoring of existing and new wells, in order to obtain supplemental water quality data necessary for planning the groundwater treatment facilities in the SFB. |
| 63 | <u>Groundwater Treatment Facilities</u> | LADWP | Design and construction of groundwater treatment facilities in North Hollywood, Rinaldi-Toluca and Tujunga Wellfields in the San Fernando Basin (SFB), with a treatment capacity of 122,900 acre-feet per year. |
| 64 | <u>Hansen Dam Golf Course Water Recycling Project</u> | LADWP | Construct 4,500 feet of 20" pipeline, pumping station and pipe support bridge to deliver recycled water from the Tillman Plant to the Hansen Dam Golf Course and other potential future users. Water will be pumped from the Hansen Tank. |
| 65 | <u>Hansen Dam Water Conservation Project</u> | Los Angeles County Flood Control District | Hansen Dam, situated adjacent to the Tujunga Wash Channel in the San Fernando Valley, is a vital part of flood control efforts in the Los Angeles River drainage basin. The primary purpose of Hansen Dam is flood control; however the opportunity exists to increase water conservation and water supply through increased water recharge upstream of the dam. The current operation of the dam allows for an average annual water conservation of 17,100 acre feet per year. The Water Conservation Project, which involves utilizing the existing Debris and Flood Control Pools for water conservation purposes by raising their respective maximum elevations to allow for additional water supply storage, would increase the dam's water conservation ability. This extra supply storage would allow for dam releases to downstream spreading grounds and other facilities to |
| 66 | <u>Hansen Dam Water Conservation and Supply</u> | The River Project | Change management regime of Hansen Dam to focus on water conservation by maintaining a water conservation pool within the reservoir during and subsequent to flood season. |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| 67 | <u>Headworks East Reservoir</u> | LADWP | onstruction of a 110 MG buried reservoir along with a 4 MW hydroplant at the former Headworks Spreading Grounds to replace the storage capacity lost when Ivanhoe Reservoir is removed from service. Needed to bring the Water System into compliance with state and federal drinking water regulations by the regulatory deadline of November 2014 |
| 68 | <u>Headworks Ecosystem Restoration</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 69 | <u>Herondo Parking Lot and Beach Infiltration</u> | City of Redondo Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 70 | <u>Hoover, Toll, & Keppel School Recycled Water Project</u> | Glendale Water & Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 71 | <u>Humboldt Stormwater Greenway</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 72 | <u>Improvements to Entradero Storm Drain Channel for Storm Water Infiltration and Habitat Restoration</u> | City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6 | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 73 | <u>Improvements to San Gabriel River Diversion and San Gabriel River Water Committee Canal and Appurtenances</u> | Azusa Light and Water | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 74 | <u>Indirect Reuse Replenishment Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 75 | <u>Johnny Carson Park Stream Restoration and Park Revitalization</u> | City of Burbank | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 76 | <u>Jordan Downs Daylighting Study</u> | Multi-jurisdictional Agencies-LA City Housing and Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 77 | <u>LA River Sixth Street Bridge Greenway</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 78 | <u>LVMWD Woodland Hills Golf Course Recycled Water Pipeline Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 79 | <u>La Puente Valley County Water District Recycled Water Project</u> | Upper San Gabriel Valley Municipal Water District & La Puente Valley County Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 80 | <u>Landscape Irrigation Efficiency Program (LIEP)</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 81 | <u>Large Landscape Irrigation Survey and Retrofit Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 82 | <u>Las Virgenes Creek Bank Stabilization, Stream Restoration, Fish Migration Enhancement and Trail Connection</u> | City of Calabasas | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 83 | <u>Live Oak Dam Inlet/Outlet Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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|-----|---|--|---|
| 84 | <u>Live Oak Spreading Grounds Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 85 | <u>Lopez Spreading Grounds Improvement</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 86 | <u>Los Angeles River Center and Gardens Green Conference Center</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 87 | <u>Los Angeles River Natural Park</u> | City of Los Angeles Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 88 | <u>Los Angeles River Revitalization Master Plan 32 Mile Channel and Easement Greening</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 89 | <u>Los Angeles State Historic Park Water Recycling Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 90 | <u>Los Angeles-Burbank Groundwater System Interconnection</u> | LADWP / Burbank Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 91 | <u>Los Angeles-Glendale Groundwater System Interconnection</u> | LADWP / Glendale Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 92 | <u>Lower Los Angeles River Area Linear Water Storage Feasibility Study</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 93 | <u>Malibu Civic Center Area Recycled Water Delivery Project</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 94 | <u>Malibu Civic Center Linear Park Phase 3</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 95 | <u>Malibu Drought Preparedness Project: Graywater Reuse and Rainwater Harvesting</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 96 | <u>Malibu Equestrian Center Runoff BMPs</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 97 | <u>Malibu Rainwater Harvesting</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 98 | <u>Malibu Road/Malibu Colony Stormwater Management</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 99 | <u>Manhattan Strand 28th Street Subsurface Infiltration Trench</u> | City of Manhattan Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 100 | <u>Manhattan Wells Improvement</u> | LADWP / Water Replenishment District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 101 | <u>Marsh Park, Phase II</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 102 | <u>Medea Creek Restoration at Chumash Park</u> | City of Agoura Hills | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 103 | <u>Miller Pit Spreading Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Appendix A

Comment Letter to the LACFCD: Draft PEIR

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| 104 | <u>MillerCoors Recycled Water Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 105 | <u>Milton Street Park and Green Street project - Ballona Creek</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 106 | <u>Mission Hills Green Belt</u> | The River Project | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 107 | <u>Mission Wells Improvement</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 108 | <u>North Hollywood Groundwater and Surface Water Benefits Study</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 109 | <u>North Hollywood Street Enhancement</u> | City of Los Angeles | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 110 | <u>North Hollywood Transmission Corridor Easement Stormwater Capture Study</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 111 | <u>North Santa Monica Bay Firecamp 13 LID Retrofit</u> | Los Angeles County Deptment of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 112 | <u>North Santa Monica Bay Probation Camp Miller LID Retrofit</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 113 | <u>Northeast Gardena Recycled Water Line</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 114 | <u>Northeast Gardena Storm Water Quality Park, Recycled Water Line, and Landscape Makeover</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 115 | <u>Northeast Gardena Water and Landscape Makeover, Community Involvement Module</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 116 | <u>Oak Park Green Streets Urban Retrofit</u> | County of Ventura | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 117 | <u>Oak Park Medea Creek Restoration</u> | Mountains Restoration Trust | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 118 | <u>Ocean Friendly Garden (OFG) Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 119 | <u>Olive Pit Water Conservation Park</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 120 | <u>Oxford Retention Basin Multi-Use Enhancement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 121 | <u>Ozone Park Runoff Treatment and ReUse Project</u> | City of Santa Monica | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 122 | <u>Pacoima Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 123 | <u>Pacoima Neighborhood Retrofit</u> | The River Project | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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Comment Letter to the LACFCD: Draft PEIR

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| 124 | <u>Pacoima Reservoir Sediment Removal</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 125 | <u>Pacoima Spreading Grounds Improvements</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 126 | <u>Palos Verdes Peninsula Satellite Facilities Study</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 127 | <u>Palos Verdes Recycled Water Lateral</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 128 | <u>Pasadena Recycled Water Project</u> | Pasadena Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 129 | <u>Peck Water Conservation Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 130 | <u>Puddingstone Diversion Dam Inlet/Outlet Works Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 131 | <u>Raw Wastewater Diversion to the City of Los Angeles</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 132 | <u>Recycled Water On-Site Retrofit Projects</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 133 | <u>Recycled Water Storage and Distribution System Expansion</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 134 | <u>Recycled Water Supply for Palos Verdes Golf Course</u> | City of Palos Verdes Estates | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 135 | <u>Recycled Water Turnouts</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 136 | <u>Regional Water Supply Reliability Program Phase 1b</u> | Puente Basin Water Agency | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 137 | <u>Residential Indoor Plumbing Retrofit Kits</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 138 | <u>Residential SMART Timer Retrofit "Plus" Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 139 | <u>Rio Hondo Coastal Basin Spreading Grounds - Sediment Removal from Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 140 | <u>Rockhaven Well</u> | Crescenta Valley Water District and Glendale Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 141 | <u>SMURRF Distributed Water Reuse Project</u> | City of Santa Monica | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 142 | <u>San Gabriel Coastal Basin Spreading Grounds Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 143 | <u>San Gabriel Dam Penstock Coatings and Valve Repair</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Appendix A

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| 144 | <u>San Gabriel Valley Water Recycling Project (Phase I - Rose Hills Expansion)</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 145 | <u>San Gabriel Valley Water Recycling Project - Membrane Bioreactor Treatment Plant</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 146 | <u>San Jose Creek Water Reclamation Plant East Process Optimization Project</u> | County Sanitation Districts of Los Angeles County | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 147 | <u>San Rafael Creek Restoration</u> | Arroyo Seco Foundation | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 148 | <u>San Ramon Canyon Stormwater Flood Reduction Project</u> | City of Rancho Palos Verdes | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 149 | <u>Santa Anita Dam Seismic Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 150 | <u>Santa Fe Dam Water Conservation Pool</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 151 | <u>Santa Fe Spillway Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 152 | <u>Sawpit Debris Dam Seismic Strengthening Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 153 | <u>Septic-To-Sewer Drinking Waterwell Protection Project</u> | City of Los Angeles Bureau of Sanitation/Wastewater Engineering Services Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 154 | <u>Sepulveda Basin Sports Complex Multi-Purpose Open Space Project</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 155 | <u>Sepulveda Basin Sports Complex Riparian Buffer</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 156 | <u>Sheldon Pit</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 157 | <u>Shoestring Park</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 158 | <u>Silver Lake Reservoir Bypass & Regulator Station</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 159 | <u>Six Basins and Puente Basin Integrated Water Supply Project</u> | Puente Basin Water Agency | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 160 | <u>South Coast Botanic Gardens</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 161 | <u>South El Monte Recycled Water Expansion Project Package 1</u> | Upper San Gabriel Valley Municipal Water District & San Gabriel Valley Water Company | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 162 | <u>South El Monte Recycled Water Expansion Project</u> | Upper San Gabriel Valley Municipal Water District & San Gabriel Valley Water Company | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Appendix A

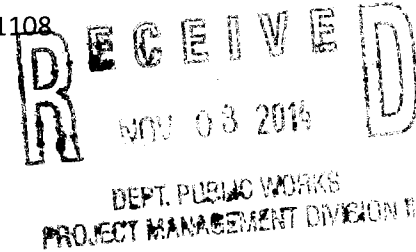
Comment Letter to the LACFCD: Draft PEIR

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|-----|---|---|---|
| 163 | <u>South Los Angeles County Groundwater Pipeline Project</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 164 | <u>South Park Subsurface Infiltration Gallery</u> | City of Hermosa Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 165 | <u>Southeast Gardena Recycled Water Line</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 166 | <u>Stormwater Diversion to Walnut Avenue Sump</u> | City of Torrance | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 167 | <u>Sun Valley Watershed Rory M. Shaw Wetlands Park Project (a.k.a. Strathern Wetlands Park)</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 168 | <u>Taylor Yard River Park Parcel G2</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 169 | <u>Terminal Island WRP Advanced Water Purification Facility and Distribution System Expansion Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 170 | <u>Terminal Island WRP Advanced Water Purification Facility and Distribution System Expansion</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 171 | <u>Thousand Oaks Boulevard and Westlake Elementary Recycled Water System Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 172 | <u>Topanga Connection Acquisition</u> | Mountains Restoration Trust | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 173 | <u>Transfer Station Cover Structure and Site Improvements</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 174 | <u>Triunfo Community Park and Evanstar Park Recycled Water Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 175 | <u>Trunk Sewer Rehabilitation Projects</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 176 | <u>Turf's Up Water Use Efficiency Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 177 | <u>Valley Generating Station Stormwater Recharge Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 178 | <u>Van Ness and Slauon Infiltration Best Management Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 179 | <u>Verdugo Hills Stormwater Project</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 180 | <u>Vermont Avenue Storm Water Capture and Green Street Beautification Project</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 181 | <u>Vermont Median Stormwater Park</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 182 | <u>Victoria Street CSUDH Water Reuse Concept Proposal</u> | City of Carson | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 183 | <u>WRD Eco Gardener Program</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 184 | <u>Walnut Creek Spreading Basin Improvements</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 185 | <u>Water Budget Based Rate Implementation</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 186 | <u>Water Star Schools Pilot Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 187 | <u>Well 15</u> | San Gabriel County Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 188 | <u>Well 7</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 189 | <u>Well No. 2 Rehabilitation</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 190 | <u>West Coast Basin Barrier Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 191 | <u>Westlake Filtration Plant Enhancement & Backbone Improvements</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 192 | <u>Westward Beach Road Bioinfiltration Project</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 193 | <u>Westwood Neighborhood Greenway Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 194 | <u>Whiting St. and El Segundo Blvd. Dry Weather Diversion Structure</u> | City of El Segundo | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 195 | <u>Whitnall HWY Powerline Easement Stormwater Capture Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

2195 Sherwood Road
San Marino, CA 91108
October 28, 2014



Mr. Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803

Dear Mr. BeGell,

The purpose of this letter is to register my support for the restoration of Baldwin Lake as part of the Enhanced Watershed Management Plan (EWMP) for the Rio Hondo Watershed. The lake has experienced significant deterioration in recent decades as a consequence of surface run-off and its very future is very much at risk. Establishing the restoration of Baldwin Lake as a priority project as part of the EWMP will ensure its status as an important ecological and historic asset for generations to come.

Many thanks for attention to this matter.

Very truly yours,

A handwritten signature in black ink, appearing to be "G. L. Ball".

George L. Ball

Paige Anderson

To: Tom Barnes
Subject: RE: Enhanced Watershed Management Plan

From: Jane Williams [<mailto:janeann64@yahoo.com>]
Sent: Wednesday, October 29, 2014 2:16 PM
To: Begell, Gregg - Consultant; Osmena, Genevieve
Subject: Enhanced Watershed Management Plan

As a volunteer at the L.A. County Arboretum, I would like to voice my support for the Enhanced Watershed Management Plan (EWMP) for the Rio Hondo Watershed, in which the Arboretum resides.

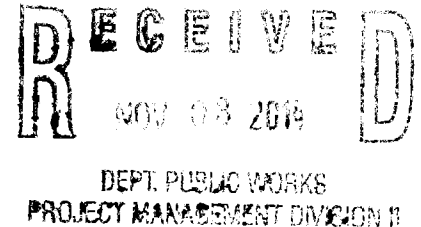
Every time I set foot in the Arboretum and look around me I see what can only be described as a treasure that belongs to the people of Los Angeles County. The condition of Baldwin Lake, the centerpiece around which the Arboretum exists is deplorable. It is in desperate need of restoration. Please do all that you can to see that this plan is instituted and that, through it, funding may be found to preserve Baldwin Lake.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Kenneth D. Hill, Ph.D., P.E.
1994 Meadowbrook Rd.
Altadena, CA 91001-3404
(626) 797-2089

October 27, 2014

Mr. Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803



Subject: Baldwin Lake Restoration
Los Angeles County Arboretum and Botanic Garden

Dear Mr. BeGell:

As president of the L.A. County Arboretum Foundation and as a concerned citizen, I encourage you to restore Baldwin Lake at the Arboretum. I am sure you are aware that the lake has environmental significance to Los Angeles County including impact on water conservation and reclamation, regional ecology, educational opportunity, and historical importance.

The restoration of Baldwin Lake, including improvements to its function as an urban runoff collection basin, should be considered as a high-priority project within the Rio Hondo Enhanced Watershed Management Plan.

Please note the following:

1. Baldwin Lake, with a current capacity of just under four million gallons, if returned to its original depth, would provide over twelve million gallons of storage capacity. With modification, it could also serve as a significant infiltration basin for aquifer recharge.
2. Tule Pond to the north, a canal roughly 600ft. in length, is the point of entry for the urban watershed, feeding directly into Baldwin Lake. Its size, shape and location offer great potential for water quality enhancement through modification as a bioswale.
3. The Lake is a key educational, scenic, wildlife, and historic resource serving over 330,000 visitors per year, including over 16,000 elementary school students on field trips. The project would provide an unrivaled opportunity to educate a broad public about regional water management, home and community water conservation, and the role of the Raymond Basin and other key water resources that sustain us.
4. The Los Angeles Arboretum Foundation, the County's non-profit partner in operating the Arboretum, stands ready to help leverage public dollars to realize the site's unique educational potential. **At our recent strategic planning meeting (October 25th) the restoration of Baldwin Lake was the top priority for the foundation over the next year.**

In sum, Baldwin Lake offers the ideal project to both enhance watershed function and serve the public with remarkable educational, ecological, and scenic benefits. It is an exceptionally strong candidate for inclusion in the Rio Hondo Enhanced Watershed Management Plan.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Hill". The signature is written in a cursive style with a horizontal line extending to the left.

Kenneth D. Hill, Ph.D., P.E.

President, L.A. County Arboretum Foundation

GM II

Marsha Perez <marshaaperez@gmail.com>

Baldwin Lake

2 messages

Marsha Perez <marshaaperez@gmail.com>
To: gbegell@dwp.lacounty.gov

Thu, Oct 23, 2014 at 4:45

Dear Mr. BeGell,

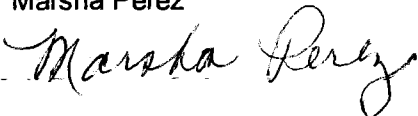
I am a frequent visitor to our LA County Arboretum. Here I can find beauty, contentment and sollice for my busy lifestyle.

Baldwin Lake is one of our families favorite visiting areas. Here we find the solitude and the different forms of wildfowl very enjoyable.

Lately we find that our lake is becoming a disaster! The water is murkey, the banks are crumbling and it has a swamp like look in certain areas.

On behalf of my family and many friends and visitors I implore you to take advantage of the opportunity now available to restore the health and beauty of our beloved lake.

Thank you for your consideration.
Sincerely,
Marsha Perez



Paige Anderson

To: Tom Barnes
Subject: RE: ADDITIONAL COMMENTS ON L.A. County Enhanced Watershed Management Program, Notice of Preparation

From: Rex Frankel [<mailto:rexfrankel@yahoo.com>]
Sent: Monday, September 29, 2014 1:59 PM
To: Begell, Gregg - Consultant
Subject: L.A. County Enhanced Watershed Management Program, comments on Notice of Preparation

COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

September 29, 2014, 1:30 pm

From Rex Frankel, director, Ballona Ecosystem Education Project,
6038 west 75th street, L.A. CA 90045
310-738-0861, email: rexfrankel@yahoo.com

I understand why no one but myself attended the NOP hearing on September 9th in Marina Del Rey. You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

In 2006, L.A. City proposed its first big plan under this agreement, an Implementation Plan for the Santa Monica Bay Beaches watersheds. This plan was sent back for redrafting by the RWQCB as it only reached 2% of its target and thus, would not accomplish the goal in the consent decree.

Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

In 2012, the County Supervisors tried to quietly approve a \$300 million per year property tax hike to build a non-existent list of runoff cleansing and capturing projects. Howls of opposition arose and that plan went nowhere. The public wanted to know what they were paying for.

Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary parts, yet deferring analysis and the controversy to a multitude of separate EIRs and CEQA documents and public hearings, all the while public input is diffused. We never get to weigh in on whether we like the complete plan because the Program EIR has no specifics to arouse concern and the real project discussion is delayed until much later in a way that requires massive efforts by the public to keep track of the success of the big plan.

The people who will pay for this plan want to see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you produce an EIR, not the other way around.

Please put me on the notification list for all actions relating to this project. Thank you.

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Paige Anderson

To: Tom Barnes
Subject: RE: ADDITIONAL COMMENTS ON L.A. County Enhanced Watershed Management Program, Notice of Preparation

From: Rex Frankel [<mailto:rexfrankel@yahoo.com>]
Sent: Wednesday, October 29, 2014 5:28 PM
To: Begell, Gregg - Consultant
Cc: kathy.knight@verizon.net
Subject: ADDITIONAL COMMENTS ON L.A. County Enhanced Watershed Management Program, Notice of Preparation

ADDITIONAL COMMENTS ON EWMP NOP: October 29, 2014

The problem I have with a Program EIR for a "program" that is devoid of a list of all necessary specific projects is that it short-circuits the cumulative impacts review plus it facilitates illegal piecemealing of the many TMDL compliance projects. A program EIR can be allowed when the individual and currently unknown specific sub projects have "independent utility", thus building and analyzing them separately has no impact on the effectiveness of the other sub projects, nor does it make it mandatory that these other projects also be approved. That is not the case here. The goal of the EWMP and the sub projects is "to achieve permit compliance with RWLs" (NOP page 7 paragraph 3 and page 8, paragraph 1). Thus, all projects must be approved and successfully achieve their goals or the region will not be in compliance with the 2012 MS4 permit, the Federal Clean Water Act and the NPDES permits. If only some of the projects prove feasible and buildable, the construction of the others will not result in CWA compliance. That begs the question of is this project worthwhile if piecemealed at all? Will the beach only be clean in certain locations along the shore, while others will not be as a treatment strategy proved too expensive or technologically infeasible? If the taxpayers ultimately decide this project is too expensive, but certain parts are already built, does that mean that pulling-the-plug will result in non compliance and thus a waste of the taxpayers' dollars already spent? This s

How can the public know if the permits and Clean Water Act will be complied with if the approval of the individual pieces of the compliance strategy are broken up into numerous pieces each receiving their own separate CEQA review? All of this leads me to conclude that the specific projects must be reviewed and approved as part of a master plan project, with the public knowing the full cost of compliance, the full impacts of all projects and alternative policy choices. One specific alternative, distasteful as I find it, would be analysis of only building some projects and also enforcing no-swimming rules for three days after rainfall at beaches.

I will repeat the conclusion of my first NOP comments: The people who will pay for this plan want to all of the see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you analyze and mandate it with an EIR, not the other way around.

Rex Frankel

From: "Begell, Gregg - Consultant" <gbegell@dpw.lacounty.gov>
To: Rex Frankel <rexfrankel@yahoo.com>
Sent: Monday, September 29, 2014 2:26 PM
Subject: RE: L.A. County Enhanced Watershed Management Program, comments on Notice of Preparation

Rex

Thank you for your comments. It will be reviewed for use in the PEIR.

Yes, when people think of an EIR they are thinking of a project. This is a Program EIR, the main PEIR document contains some projects as examples but it's a program.

We are presently working on the PEIR, check our website for information and details.
www.LACoH2Osheds.com. We will be posting the PEIR plus public review meetings on the website.

Gregg BeGell P E
Project Manager
Project Management Division II

From: Rex Frankel [<mailto:rexfrankel@yahoo.com>]
Sent: Monday, September 29, 2014 1:59 PM
To: Begell, Gregg - Consultant
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TRANSMITTAL

DATE: October 29, 2014

TO: Gregg BeGell, P.E.
County of Los Angeles, Department of Public Works/LACo Flood Control District
900 South Fremont Avenue, 5th Floor Alhambra, CA 91803
gbegell@dpw.lacounty.gov

CC: **Gloria Molina, LACo Supervisor**
Micheal Antonovich, LACo Supervisor
Sierra Club, Angeles Chapter, Water Committee
CCFAC Executive Director

FROM: **Dr. Tom Williams,**
Sierra Club, Angeles Chapter, Water Committee
Citizens Coalition For A Community
4117 Barrett Road, Los Angeles, CA 90032-1712
ctwilliams2012@yahoo.com, 323-528-9682

SUBJECT: **County of Los Angeles, Enhanced Watershed Management Plan**
Scoping for Programmatic EIR

RE: **COMMENTS for Enhanced Watershed Management Plan PEIR CS-CH#2014081106**
Based on NOP and other project information downloaded from www.LACoH2Osheds.com.

Thank you for the opportunities to comment on the Notice of Preparation/Initial Study (NOP/IS) and other Scoping documents related to the proposed LA County Enhanced Watershed Management Plan (EWMP). Also thank you for the extension of the deadline for such comments, I believe it was very helpful for our commenters.

I could have continued for many more pages but I have been exhausted by the lack of real effort on the part of the preparers to make the Enhanced Watershed Program project meaningful, adequate, and complete and initially assess its secondary and tertiary impacts for knowledgeable public reviewers. Unfortunately the current NOP/IS and supporting documents appears to be an initial version of the vague program that has been developed by others, rather than a project or even program level DEIR preparation and is in need of major technical additions, editing, technical, and other revisions. The Scoping documents are inadequate and incomplete for the purposes of Scoping, and Scoping documents must updated, revised, and reissued. If you need further clarifications and many more comments, I am available for discussions or correspondence with your staff.

Dr. TW: Background: 40+ years with Worldwide/California water resources, management plans, water supplies, water distribution and transmission systems, and remote water resources development, with preparation, review, and commenting for 300+ EIRs/EISs/EAs (1972 to Date) and with 30+ years in Parsons and URS Corporations, 12+ years with Dubai Govt./Dubai World, and 6+years with Sierra Club Angeles Chapter (Water, Transportation, and Oil and Gas Comtes) and Citizens Coalition for a Safe Community.

Thank you for the opportunity to review and comment. Our comments form two parts: general and specific comments, as shown below for the Section and the two segments.

I have tried to provide citations in comment format with Doc./page/paragraph. Where appropriate, text has been inserted from documents and emphasis added usually as **bolded/underlines**. **Comments/Requests are added in bolded/italics.**

Dr. Tom Williams
323-528-9682

1. GENERAL COMMENTS

1-1 Scoping and Project/Program Purposes and Needs

The Program description for any DEIR or PDEIR must include the basis of the project: Purposes, Needs Goals, Objectives,

Absence of clearly defined purposes and need, goals and objectives, and priorities renders both the Program and Projects virtually non-reviewable and thereby inadequate and incomplete for public review and comment.

Without purposes and needs/goals and objectives, the public and reviewers cannot be expected to provide reasonable alternatives.

NOP/IS

p.1/par.2 The **purpose** of the MS4 Permit is to ensure Permittees are not causing or contributing to exceedances of water quality **objectives** or impairments of beneficial uses in the receiving waters of the Los Angeles region.

7/3 2.2 States are required not only to identify these "water quality limited segments" but also to prioritize such waters for the **purpose of developing Total Maximum Daily Loads** (TMDLs).

9/5 4.1.1 Capture and Use BMPs collect and use stormwater where applicable for **purposes** such as irrigation.

1/3 The overarching **goal** of BMPs in the EWMP is to reduce the impact of stormwater and non-stormwater on receiving water 2/1 quality and address the water quality priorities as defined by the MS4 Permit.

2/1 The development of each EWMP will involve the evaluation and selection of multiple BMP types, including nonstructural (institutional) and distributed, centralized, and regional structural watershed control measures, that will be implemented to meet **compliance goals and strategies under the 2012 MS4 Permit**.

8/7 The overarching **goal** of BMPs in the EWMPs is to reduce the impact of stormwater and non-stormwater on receiving water quality and to address water conservation and the water quality **priorities**.

11/3 The MS4 permit allows Permittees to customize MCMs to address high-priority water quality **goals** within their watersheds.

13/2 The PEIR will examine the project's effects on global climate change and evaluate consistency of the project with the State's GHG emissions reduction **goals**.

Scoping Meeting - Pic 4

- **Project Purpose:** MS4 Permit Compliance (R4-2012-0175)
 - Each Permittee is responsible for its local MS4 compliance
 - Permit compliance through EWMPs
- 12 NOIs submitted to LARWQCB
- Collectively prepared by participating Permittees
 - Los Angeles Regional Water Quality Control Board (LARWQCB) approves EWMPs

1-2 PEIR Contents

1-2 Total lack of reference to assignment of significance and related mitigation.

NOP/IS lacks clear definition and presentation as to potential effects, scopes, and schedules of the program and related projects and their implementation, construction, and operations.

As a water resources project, the physical changes represent a small portion of the overall potential effect of the program and projects, and the NOP does not reflect the systemic nature of water resources effects on the environment.

The NOP and the PDEIR and PjDEIRs must clearly provide a Scope for each basin, schedules, and related environmental sectors, a Schedule for "implementation", construction, and "operations" (?=forever).

The PEIR will -

"result from implementation of the projects and management actions identified in each EWMP

"result from the construction and operation of EWMP projects,

"focus on potential effects.

"assess the physical changes...including direct, indirect, and cumulative impacts.

"identify mitigation measures to minimize potentially significant impacts of each EWMP.

"anticipated to evaluate...following preliminary listing of environmental issues.

1-3. Environmental Resources, Setting, and Effects - Employment, Costs, Revenues, and Socioeconomics

Employment, Costs, Revenues, and Socioeconomics Although mentions are made regarding economic and employment effects related to the Program and its projects, no costs-benefits, financials/funding sources, or other revenues assessments are included in the NOP.

Similarly, socioeconomics for major infrastructure programs and projects are closely related to "Environmental Justice" of those receiving benefits and those experiencing adverse effects directly through water-related operations and indirectly through direct/indirect payments for such effects and prospective benefits for those with much largely parcels and incomes.

5/1 The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach.

8/3 The EWMPs include multi-benefit stormwater management projects that may also provide environmental, aesthetic, recreational, water supply, and/or other community enhancements cost-effective manner.

11/1 Most institutional BMPs are implemented to meet Minimum Control Measure (MCM) requirements in the MS4 permit; MCMs are considered a subset of institutional BMPs. MCMs do not involve construction of facilities that physically remove pollutants, but may involve costs associated with the procurement and installation of items such as signage or spill response kits.

12.3 Air Quality Construction and operation of EWMP projects could cause air emissions...vehicle trips associated with any increases in employment....

14/3 Population...The PEIR will, however, identify current population and employment projections...

1-4 Controversies Regarding Program/Projects --- Stormwater Fees

Since the LACo Board of Supervisors have experienced significant controversy regarding the imposition of parcel fees for stormwater revenue and funding and has further created controversies regarding reassignment of parcel-area fees to parcel only fees, a thorough review of the economic, employment, and environmental justice issues must be addressed and defined for the NOP/IS,

As currently understood but avoided in Water agency and County presentations, an increase (e.g., x2+) in LACo stormwater fees would be applied on a parcel basis (no matter the size of parcel) as being proposed under the 2014 Measure P initiative which has no relationship to stormwater runoff and effects, compared to the current Recreation and Parks 1990s initiative which are based on parcel area (sqft) fees. For stormwater generation, area is directly related stormwater generation (e.g., 5000sqft may generate less runoff than 50,000sqft lots).

Therefore the NOP has not discussed the socioeconomic effects and related Environmental Justice issues related to the proposed program and the related controversy. A thorough assessment of all related revenue/costs issues must be presented in the PDEIR, including sources of revenues, revenue streams for life-of-project costs (especially for operations, maintenance, and replacements), basis for revenues (by parcel or by parcel-area), and Environmental Justice (which is not mentioned any where in the NOP/IS or presentation).

1-5 Mitigation Measures

Inconsistency uses and lack of definitions for most if not all related terms. activities of "develop", "identify", "proposed", or "evaluate".

to reduce potential, reduce the level, reduce potential adverse effect, any significant effects, to avoid,

are reduced or avoided, recommend

Vague generalities are presented and are so inconsistently applied within the same or related paragraphs as to render the entire presentation as useless.

The PDEIR must clearly present in matrices with links to discussions and appendices the project and program effects (quantified/ranked), levels of significance for each sector/parameter, criteria levels for significances, proposed mitigations/compensations for significant effects, and a quantitative ranking of the effects levels following mitigation/compensation.

Lack of Mitigation

1-6 No measures are mentioned for many sectors but no basis could be established for such omissions, and comparable effects could be expected within these sectors similar to those that had need for measures mentioned.

12/2 Aesthetics **No mitigation mentioned.**

12/4 Biology... **No mitigation mentioned.**

13/2 Greenhouse Gases **No mitigation mentioned.**

13/6 Land Use... **No mitigation mentioned.**

14/4 Public Services... **No mitigation mentioned.**

15/1 The PEIR will **evaluate potential energy consumption** associated with implementation of structural and nonstructural BMPs. **No mitigation mentioned for Energy**

1-7 Mitigation, protection, and other measures and strategies are mentioned along with textual review of environmental sector but without any clear and concise statement of what they are, when they would be used, and how they could affect impacts, effects, and conditions.

Mitigation measures in the Scoping NOP/IS are inconsistently mentioned as shown below.

Mitigation or compensation is required by CEQA for significant impacts.

Although mitigation is mentioned in the NOP/IS, mitigation and compensation are not mentioned in the Scoping Presentation slides; in reverse of "Alternatives", not mentioned in NOP/IS but present once in the Presentation.

Various terms - without definitions and consistent uses.

Protection measures mitigation strategies

significant effects

significant impacts

potentially necessary significant impacts

mitigate secondary effects of growth

As lead agency for the program LACo must clearly state the sole responsibility for thorough and consistent implementation in all projects of CEQA compliance and consistency of impact mitigation and compensation (including Environmental Justice and Socioeconomics).

The recirculated NOP/IS and PDEIR must provide a thorough presentation of:

Definitions of all related terms,

Process and quantified analyses for establishing the level of effects, mitigation, and remaining adverse effects and potential subjects of compensation,

Consistency of mitigations amongst all watersheds,

All current mitigation and compensation measures planned or anticipated by the Program and Project proponents, and

Explanation of absence of mitigation or compensation.

Examples

12/3 Air Quality...The PEIR...will **develop** mitigation measures if necessary to **reduce potential impacts**.

12/5 Cultural Resources Mitigation measures will be **identified** if necessary to **reduce the level of impact where possible**.

13/1 Geology... The PEIR will identify mitigation measures if necessary to **reduce potential adverse effects** to proposed facilities.

13/3 Hazards... Mitigation measures will be **proposed** if necessary to **reduce any significant effects** of the project...encountered during construction would be handled in accordance with applicable regulations.

13/4 Hydrology... The PEIR will identify stormwater quality **protection measures** required during construction and operation of proposed facilities. The PEIR also will **evaluate** potential impacts to flood control capacity and **develop mitigation strategies** if necessary **to avoid significant impacts**.

13/5 The PEIR will **evaluate** potential effects of increased storm water recharge and will identify mitigation measures if necessary to ensure that **potentially necessary significant impacts are reduced or avoided**.

14/2 Noise... The PEIR will **recommend mitigation strategies** to ensure that proposed EWMP projects implemented by local agencies comply with local noise policies and ordinances.

14/3 Population... The PEIR will...identify local planning jurisdictions with the authority to approve growth and **mitigate secondary effects of growth**.

14/5 Traffic... The PEIR will **identify mitigation strategies to reduce any potential effects**.

14/6 Utilities... The PEIR will **evaluate the project's potential to affect utilities** and will **identify mitigation measures to minimize the effects**.

1-8 Alternatives *Although the project proponent has chosen to prepare an Environmental Impact Report, no mention is made regarding alternatives in the Initial Study/NOP. Only one reference to alternatives in all available related documents occurs in Slide 28, "Issues to be Analyzed" in the PEIR Scoping Presentation.*

As the preparer included one reference to Alternatives, complete exclusion of such from the IS/NOP represents an arbitrary and incomplete presentation of CEQA documents. Without a clear concise statement of purposes and needs (goals and objectives, etc.), reasonable alternatives cannot be developed through the public participation and have not been developed by the watershed stakeholders.

LACo must revise and recirculate the NOP.

LACo must include a thorough description of Purposes and Needs for the project, quantification of such P&Ns, detailed quantified analyses as to how the Program achieves such P&Ns, basis for development of other alternative programs and projects within each alternative, and an assessment as to the best available alternative.

Some prospective alternatives include:

*Single parcel fee assessment for 20-plus year full Administration, O&M and replacements;
Parcel-Area fee assessment for 20-plus year full Administration, O&M and replacements;
Hybrid Parcel-Area/Runoff fee assessment for 20-plus year full Administration, O&M and replacements;*

Zero-Parcel Discharge Assessment and fee adjustment for 20-plus year full Administration, O&M and replacements;

Large-Parcel and Large Discharge Assessment and fee increments for 20-plus year full Administration, O&M and replacements;

Full capture and recharge of flows of >100cfs from all waterways;

1-9 Mitigation Monitoring and Report Plan *The Draft Programmatic Environmental Impact Reports must include draft plans for the implementation, monitoring, and enforcements of the Mitigation Monitoring, and Reporting Plan for the Program. Also the PDEIR and draft Programmatic MMR Plan must provide the descriptions and process for funding, staffing, means, monitoring, enforcement, and reporting for the public for the monitoring of all Project-Level activities and compliance which must be subject to noticing/subscriptions, public reviews, and comment as part of the project-DEIR processes and not wait until the "Final EIR" is circulated for projects.*

1-10 Scoping Report *Because of the poor development of the NOP/IS and lack of coordination between the LACo efforts and those projected for the individual Project DEIRs and dispersed responsibilities for compliance and responsibilities, following the October 29th deadline for these comments, we request that LACo recirculate the entire NOP/IS, and if not done issue a Scoping Report ass to the LACo responses to comments and the table of contents for the PDEIR in order to establish the level of incorporation provided for the Scoping comments herein.*

1-11 *As indicated elsewhere many terms have been used and will be used inconsistently in the NOP/IS and Scoping Presentation and has created confusion and such must be avoided in the PDEIR.*

The PDEIR must contain a single glossary and set of definitions for all terms for the PDEIR, and preparers and editors must assure full and specific compliance and consistency for all usage. Such a glossary may be included as an appendix with proper references throughout the PDEIR.

1-12 Program Compliance and Monitoring *The LACo, Department of Public Works, Flood Control District is assumed to be in charge of the EWMP Program and has 12 groups responsible for specific areas and is related to the Los Angeles Regional Water Quality Control Board through the MS4 permit and sub-permits for water quality and flows within the Program regional and*

area watersheds. No formal agreement has been presented as part of the NOP/IS and discussion seems to differ between the NOP/IS and the Scoping Presentation. As the LACFCD is scoping the PDEIR, reviewers must assume that only the LACo shall answer to the LARWQCB for compliance and monitoring for the next 20 years and that LACo shall have the powers, staffing, expertise, and funding to assure compliance of 12 different agencies/sub-permittees.

The Program description of the PDEIR must clearly and concisely present the administrative and operational arrangement and oversight assurance mechanisms to achieve implementation of all aspects of the MS4 permit and sub-permits and any and all CEQA and MS4 permit terms, conditions, mitigations, and compensations which may be related the Program and its projects. All contractual, regulatory, and judicial records must be provided as appendices and referenced within the text.

1-13 During a 20+ year Program, Implementation and Enforcement of all elements for 12+ different plans represent a major quality control/assurance and management and must be provided with adequate enforcement capabilities and support. The LACo, Department of Public Works, Flood Control District is assumed to be in charge of the EWMP Program and has 12 groups responsible for implementation, completion, and enforcement activities related to but in addition to those of the Los Angeles Regional Water Quality Control Board through the MS4 permit and sub-permits for water quality and flows within the Program regional and area watersheds.

No formal management and enforcement agreement has been presented as part of the NOP/IS and the Scoping Presentation. As the LACFCD is scoping the PDEIR, reviewers must assume that only the LACo shall answer to the LARWQCB for implementation and enforcements for the next 20 years and that LACo shall have the powers, staffing, expertise, and funding to assure implementation and enforcement with 12 different agencies/sub-permittees.

Fundamentally, will LACFCD or LARWQCB assess penalties against the sub-permittees for lack of timely implementation, achievement, and penalties.

The Program description of the PDEIR must clearly and concisely present the administrative and operational arrangement and quality-controls/assurance processes to achieve initiation and completion of all aspects of the MS4 permit and sub-permits and assignment of penalties , both financial and organizational for any and all CEQA and MS4 permits which may be related the Program and its projects. The LACFCD must also have the specific powers to assume direct authority over any projects under its responsibilities to the LARWQCB, and such must be documented within the PDEIR and PFEIR as appendices and referenced within the text

Environmental Sectors

2-1 No mention is made of "wetlands" which are often not included under either riparian (trees and bushes with dry land beneath) or aquatic habitats (open and standing water). Although this is one of the few specific habitats with federal and special protections, it is not mentioned which indicates the lack of background on the preparers part or a specific avoidance of controversial issues. The current NOP/IS lack competence, adequacy, and completeness for the public and stakeholder to review and comment upon the scope and specificity required for the PDEIR and subsequent PjDEIRs.

Revise and recirculate the entire NOP/IS and related documents.

The recirculation NOP/IS and the PDEIR must contain a general map of the Program and area maps for each of the projects with the following:

**all existing delineated riparian, wetlands, and aquatic habitats;
related existing upstream and adjacent infiltration, recharge, and liquefaction areas;
potential groundwater movement patterns for 1500ft upstream and downstream of wetlands and riparian habitats; and
current surface water flows for 1500ft upstream and downstream of wetlands and riparian habitats.**

12/4 Biological Resources Implementation of the EWMP projects could occur within existing sensitive habitats...result in changes to wildlife habitat, disruption of natural movement corridors, fragmentation or isolation of wildlife habitats, and disturbance of sensitive species during construction or operation...could alter riparian and aquatic habitats. The PEIR will evaluate the

potential for such facilities to impact biological resources and will also discuss local ordinances and state and federal regulations governing biological resources.

2-2 Geology and Groundwater *Slight mention is made of groundwater, infiltration, recharge, and related liquefaction although much of the stormwater reduction must depend upon groundwater storage of captured runoff. The General Plan has not specific policies regarding changing the entire groundwater regime by massive expansion of septic tank/leach field system in another LACo project (i.e., Hauled Water Initiative) and this Programs LID and related recharge systems.*

No information has been provided as to where recharge/infiltration areas are in relation to liquefaction zones and their drier extensions of alluvium and other permeable soils and bedrock.

The recirculation NOP/IS and the PDEIR must contain a general map of the Program and area maps for each of the projects with the following:

All geologically potential recharge/infiltration areas, existing recharging project, and proposed recharging areas and of all areas with more than 10 septic tanks per any 100 acres;

Currently delineated liquefaction areas and geologically similar surface materials which are not now considered as liquefiable due to lack of high groundwater tables;

Known groundwater levels and elevations of stream beds downslope of the groundwater tables; and

Anticipated local and project recharging rates.

12/6 5. Geology, Soils, and Seismicity Southern Los Angeles County is a seismically active region. The proposed EWMP BMPs would require **construction** of structural BMPs that could be subject to potential seismic and geologic hazards, including 13/1 ground shaking, **liquefaction**, soil stability conditions, soil erosion rates, expansive soils, and landslides. Policies provided in the County's General Plan and applicable standard County requirements will be evaluated as to their effect of **mitigating or avoiding any potentially significant effects...**

13/4 Hydrology and Water Quality Implementation of the proposed EWMP BMPs may change **local drainage patterns at construction sites**,...which could affect the hydrology, hydraulics, and/or water quality of streams, rivers, and other receiving waters...The PEIR also will evaluate potential impacts to flood control capacity and develop mitigation strategies if necessary to avoid significant impacts.

13/5 Implementation of the proposed EWMP BMPs would likely result in **increased infiltration and recharge** in various locations throughout the EWMP watersheds. **Such activities could affect local groundwater levels and water quality**. The PEIR will evaluate potential effects of **increased storm water recharge** and will identify mitigation measures if necessary to ensure that potentially necessary significant impacts are reduced or avoided.

2-3 Hazards and Groundwater Recharge *No mention is made regarding the influence of groundwater movements upon hazards and hazardous materials in the soil/alluvium/bedrock context. Groundwater plumes have cause major expansions of underground contamination from storage tanks and contaminated soil. Contaminated groundwater in the northeastern and western San Fernando Valley and elsewhere are known to be migrating based on the groundwater flows and basin pumping for water supplies.*

Current LACo policies do not reflect the responsibilities and liabilities of LACo approved watershed plans causing the changes of hazardous materials migration induced by groundwater flows fed by LACo and agency approved recharge/infiltration projects.

No information has been provided as to where recharge/infiltration areas, groundwater flows, and known or expected contaminated groundwater and soils, and potential routes for plume migration through extensions of alluvium and other permeable soils and bedrock.

The recirculation NOP/IS and the PDEIR must contain a general map of the Program and projects' area maps with the following:

Known subsurface contaminated soils and groundwater and active remediation sites;

Known pump/treat/use or pump/treat/recharge projects;

Current and expected recharge/infiltration areas; and

Known/Expected groundwater migration pathways.

13/3 Hazards and Hazardous Materials Excavation during construction of proposed EWMP BMPs could uncover **contaminated soils or hazardous substances** that pose a substantial hazard

to human health or the environment...The policies provided in the County's General Plan and any standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects.

2-4 Socioeconomics (including Total and Disposal Incomes, Employment, Existing Infrastructure Costs, and Property and Other Revenues)

No information has been provided as to any socioeconomic setting, effects, and mitigation for the program or the projects.

The recirculation NOP/IS and the PDEIR must contain an overall socioeconomic review of the Program area and separate project area for each of the projects with the following:
Educational, employment, age/gender, and other socioeconomic parameters to characterize the areas for the Program and its projects;
Incomes, Current Taxes and Fees, and other Ability-To-Pay parameters to characterize the areas for the Program and its projects;
Existing Special Assessment Districts and Other Urban Costs for Local Residents and Property Owners for the Program's and its projects' areas; and
State and conditions of existing infrastructure and potential for major future projects in the same Program's and its projects' areas.

2-5 "Environmental Justice" No information has been provided as to any information regarding the setting, effects, and mitigation for the program or the projects related to issues of Environmental Justice.

The recirculation NOP/IS and the PDEIR must contain an overall and specific projects' Environmental Justice review of the similar major infrastructure programs and projects as related to those receiving benefits and those experiencing adverse effects directly through water-related operations and indirectly through direct/indirect payments for such effects and prospective benefits for those with much largely parcels and incomes.

2-6 Mitigation Monitoring and Reporting Plan The Draft Programmatic and Draft Project Environmental Impact Reports must include tiered draft plans for the implementation, monitoring, and enforcements of the Mitigation Monitoring, and Reporting Plan which will be subject to public review and comment as part of the DEIR processes and not wait until the "Final EIR" is circulated.

ELIZABETH BYRNE DEBREU

777 Arden Road
Pasadena, California 91106

October 8, 2014

Mr. Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803

Via Email: gbegell@dpw.lacounty.gov

Re: Restoration of Baldwin Lake

Dear Mr. BeGell:

I write to urge you to make the restoration of Baldwin Lake a high priority as you lead the effort to create the EWMP for the Rio Hondo Watershed.

The restoration of Baldwin Lake, including modifications to the depth of the lake and adaptation of Tule Pond as a bioswale, would enhance Baldwin Lake's water quality and give it a more significant water collection function while simultaneously enhancing its scenic, educational, and historic value at the center of the Los Angeles County Arboretum and Botanic Garden.

The restored lake would also provide an exceptional opportunity to educate the public about regional water management, home and community water conservation, and the role of the Raymond Basin and the other water resources in sustaining us. It is a key resource that serves over 330,000 visitors per year, including more than 16,000 elementary school students on field trips.

As a member of the board of the Los Angeles Arboretum Foundation, the County's non-profit partner in operating the Arboretum, I stand ready to help leverage public dollars to realize Baldwin Lake's unique potential to provide direct public benefit in a multitude of ways. It is the ideal project both to enhance the watershed function and serve the public with remarkable educational, ecological, and scenic benefits.

I respectfully submit that the County include the Baldwin Lake in the Rio Hondo Enhanced Watershed Management Plan.

Very truly yours,

Elizabeth Byrne Debreu
Board Member, Los Angeles Arboretum Foundation

DEPARTMENT OF TRANSPORTATION
DISTRICT 7—OFFICE OF TRANSPORTATION PLANNING
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-9140
FAX (213) 897-1337
www.dot.ca.gov



*Serious drought.
Help save water!*

September 29, 2014

Mr. Gregg BeGell
County of Los Angeles Dept. of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803

Re: Enhanced Watershed Management Programs
Notice of Preparation
IGR#140912FL
Vic.: LA/Various watersheds locations

Dear Mr. BeGell:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project will prepare a Program Environmental Impact Report (PEIR) for the project identified, such as the 12 separate Enhanced Watershed Management Programs (EWMPs); it will be prepared as a collective effort among the Los Angeles County Flood Control District (LACFCD) and the applicable agencies in each respective EWMP.

We would like to remind you that storm water run-off is a sensitive issue for Los Angeles and Ventura counties. Please be mindful that projects need to be designed to discharge clean run-off water.

Any work to be performed within the State Right-of-way will need an Encroachment Permit and any transportation of heavy construction equipment and/or materials which requires the use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. We recommend that large size truck trips be limited to off-peak commute periods. In addition, a truck/traffic construction management plan is needed for this project.

If you have any questions, please feel free to contact me at (213) 897-9140 or project coordinator Frances Lee at (213) 897-0673 or electronically at frances.lee@dot.ca.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Dianna Watson".

DIANNA WATSON
Branch Chief, Community Planning & LD IGR Review

cc: Scott Morgan, State Clearinghouse



MWD

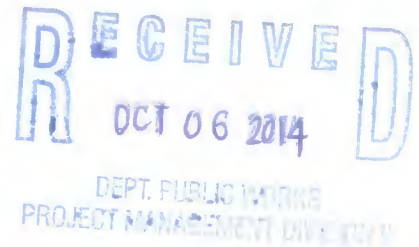
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

September 24, 2014

Via Mail

Mr. Gregg BeGell
Project Management Division II
Los Angeles County Flood Control District
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803



Dear Mr. BeGell:

Notice of Preparation for the Draft Program
Environmental Impact Report for the Enhanced Watershed Management Programs

The Metropolitan Water District of Southern California (Metropolitan) has reviewed the Notice of Preparation of a Draft Program Environmental Impact Report for Enhanced Watershed Management Programs (EWMPs) in Los Angeles County, California. The Los Angeles County Flood Control District (LACFCD) is the Lead Agency. An EWMP is one regulatory compliance mechanism for stormwater management under the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit adopted in 2012 (hereafter referred to as 2012 LA County MS4 Permit). The LACFCD proposes the development of 12 separate EWMPs in their respective watershed groups. The potential benefits from the EWMPs include the following: (1) improved water quality; (2) reduction in the impairment of water bodies for Designated Beneficial Uses; (3) promotion of water conservation and supply; (4) enhanced recreational opportunities; (4) support for public education opportunities; (5) improved local aesthetics; and (6) management of flood risks. This letter contains Metropolitan's comments to the proposed project as a potentially affected agency.

Metropolitan is a public agency and regional water wholesaler. It is comprised of 26 member public agencies serving approximately 18.4 million people in portions of six counties in Southern California, including Los Angeles County. Metropolitan's mission is to provide its 5,200-square-mile service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way. Metropolitan owns and operates numerous facilities within Los Angeles County including pipelines, a water treatment plant, power plants, dams, reservoirs, and other infrastructure associated with our water conveyance and distribution system.

The proposed project may impact Metropolitan's ability to dewater its pipelines. As part of a proactive maintenance and refurbishment program, Metropolitan periodically dewater its treated and raw water pipelines prior to inspection, maintenance, or repair activities. Such periodic inspections and repairs are essential to prevent pipe failures and subsequent damage from high-pressure water releases. These water discharges are short-term in nature and are acknowledged

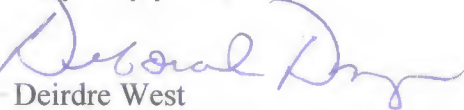
by the LA County Regional Water Quality Control Board as having a *de minimus*, or low-threat, impact to the environment and aquatic life. As such, these discharges are categorized as “Conditionally Exempt Essential Non-Storm Water Discharges” under the 2012 LA County MS4 Permit.

Metropolitan requests that LACFCD and its co-permittees continue to allow for periodic discharges by potable water systems into the MS4 under the proposed EWMPs. These “Conditionally Exempt Essential Non-Storm Water Discharges” are specifically called out as permissible under the 2012 LA County MS4 Permit. Per the conditions set forth in the 2012 LA County MS4 Permit, Metropolitan will continue to follow industry-accepted best management practices (BMPs) for its potable water system discharges. BMPs include, but are not limited to, the following: (a) advanced notification of LACFCD 72 hours prior to all planned discharges greater than 100,000 gallons and as soon as possible after an unplanned discharge greater than 100,000 gallons; (b) dechlorination; (c) monitoring for pollutants of concern; and (d) recordkeeping (e.g., date, time, and location of discharge, discharge pathway, receiving water, total number of gallons discharged, BMPs used, etc.).

Based on a review of the proposed project boundaries, the proposed project has potential to impact Metropolitan facilities. Metropolitan must be allowed to maintain its rights-of-way and requires unobstructed access to its facilities in order to maintain and repair its system. Any future design plans associated with this project should be submitted to the attention of Metropolitan’s Substructures Team. Approval of the project should be contingent on Metropolitan’s approval of design plans for portions of the proposed project that could impact its facilities.

Detailed prints of drawings of Metropolitan’s pipelines and rights-of-way may be obtained by calling Metropolitan’s Substructures Information Line at (213) 217-6564. To assist the applicant in preparing plans that are compatible with Metropolitan’s facilities and easements, we have enclosed a copy of the “Guidelines for Developments in the Area of Facilities, Fee Properties, and/or Easement of The Metropolitan Water District of Southern California.” Please note that all submitted designs or plans must clearly identify Metropolitan’s facilities and rights-of-way. We appreciate the opportunity to provide input to your planning process and we look forward to receiving future documentation and plans for this project. For further assistance, please contact Ms. Michelle Morrison at (213) 217-7906.

Very truly yours,


for Deirdre West
Manager, Environmental Planning Team

MM:rdl

J:\Environmental Planning&Compliance\COMPLETED JOBS\September2014\EPT Job No. 20140944MIS

Enclosures: Planning Guidelines and Map of Metropolitan Facilities in Project Vicinity

Guidelines for Developments in the
Area of Facilities, Fee Properties, and/or Easements
of The Metropolitan Water District of Southern California

1. Introduction

a. The following general guidelines should be followed for the design of proposed facilities and developments in the area of Metropolitan's facilities, fee properties, and/or easements.

b. We require that 3 copies of your tentative and final record maps, grading, paving, street improvement, landscape, storm drain, and utility plans be submitted for our review and written approval as they pertain to Metropolitan's facilities, fee properties and/or easements, prior to the commencement of any construction work.

2. Plans, Parcel and Tract Maps

The following are Metropolitan's requirements for the identification of its facilities, fee properties, and/or easements on your plans, parcel maps and tract maps:

a. Metropolitan's fee properties and/or easements and its pipelines and other facilities must be fully shown and identified as Metropolitan's on all applicable plans.

b. Metropolitan's fee properties and/or easements must be shown and identified as Metropolitan's with the official recording data on all applicable parcel and tract maps.

c. Metropolitan's fee properties and/or easements and existing survey monuments must be dimensionally tied to the parcel or tract boundaries.

d. Metropolitan's records of surveys must be referenced on the parcel and tract maps.

3. Maintenance of Access Along Metropolitan's Rights-of-Way

a. Proposed cut or fill slopes exceeding 10 percent are normally not allowed within Metropolitan's fee properties or easements. This is required to facilitate the use of construction and maintenance equipment, and provide access to its aboveground and belowground facilities.

b. We require that 16-foot-wide commercial-type driveway approaches be constructed on both sides of all streets crossing Metropolitan's rights-of-way. Openings are required in any median island. Access ramps, if necessary, must be at least 16-foot-wide. Grades of ramps are normally not allowed to exceed 10 percent. If the slope of an access ramp must exceed 10 percent due to the topography, the ramp must be paved. We require a 40-foot-long level area on the driveway approach to access ramps where the ramp meets the street. At Metropolitan's fee properties, we may require fences and gates.

c. The terms of Metropolitan's permanent easement deeds normally preclude the building or maintenance of structures of any nature or kind within its easements, to ensure safety and avoid interference with operation and maintenance of Metropolitan's pipelines or other facilities. Metropolitan must have vehicular access along the easements at all times for inspection, patrolling, and for maintenance of the pipelines and other facilities on a routine basis. We require a 20-foot-wide clear zone around all above-ground facilities for this routine access. This clear zone should slope away from our facility on a grade not to exceed 2 percent. We must also have access along the easements with construction equipment. An example of this is shown on Figure 1.

d. The footings of any proposed buildings adjacent to Metropolitan's fee properties and/or easements must not encroach into the fee property or easement or impose additional loading on Metropolitan's pipelines or other facilities therein. A typical situation is shown on Figure 2. Prints of the detail plans of the footings for any building or structure adjacent to the fee property or easement must be submitted for our review and written approval as they pertain to the pipeline or other facilities therein. Also, roof eaves of buildings adjacent to the easement or fee property must not overhang into the fee property or easement area.

e. Metropolitan's pipelines and other facilities, e.g. structures, manholes, equipment, survey monuments, etc. within its fee properties and/or easements must be protected from damage by the easement holder on Metropolitan's property or the property owner where Metropolitan has an easement, at no expense to Metropolitan. If the facility is a cathodic protection station it shall be located prior to any grading or excavation. The exact location, description and way of protection shall be shown on the related plans for the easement area.

4. Easements on Metropolitan's Property

a. We encourage the use of Metropolitan's fee rights-of-way by governmental agencies for public street and utility purposes, provided that such use does not interfere with Metropolitan's use of the property, the entire width of the property is accepted into the agency's public street system and fair market value is paid for such use of the right-of-way.

b. Please contact the Director of Metropolitan's Right of Way and Land Division, telephone (213) 250-6302, concerning easements for landscaping, street, storm drain, sewer, water or other public facilities proposed within Metropolitan's fee properties. A map and legal description of the requested easements must be submitted. Also, written evidence must be submitted that shows the city or county will accept the easement for the specific purposes into its public system. The grant of the easement will be subject to Metropolitan's rights to use its land for water pipelines and related purposes to the same extent as if such grant had not been made. There will be a charge for the easement. Please note that, if entry is required on the property prior to issuance of the easement, an entry permit must be obtained. There will also be a charge for the entry permit.

5. Landscaping

Metropolitan's landscape guidelines for its fee properties and/or easements are as follows:

a. A green belt may be allowed within Metropolitan's fee property or easement.

b. All landscape plans shall show the location and size of Metropolitan's fee property and/or easement and the location and size of Metropolitan's pipeline or other facilities therein.

c. Absolutely no trees will be allowed within 15 feet of the centerline of Metropolitan's existing or future pipelines and facilities.

d. Deep-rooted trees are prohibited within Metropolitan's fee properties and/or easements. Shallow-rooted trees are the only trees allowed. The shallow-rooted trees will not be permitted any closer than 15 feet from the centerline of the pipeline, and such trees shall not be taller than 25 feet with a root spread no greater than 20 feet in diameter at maturity. Shrubs, bushes, vines, and ground cover are permitted, but larger shrubs and bushes should not be planted directly over our pipeline. Turf is acceptable. We require submittal of landscape plans for Metropolitan's prior review and written approval. (See Figure 3).

e. The landscape plans must contain provisions for Metropolitan's vehicular access at all times along its rights-of-way to its pipelines or facilities therein. Gates capable of accepting Metropolitan's locks are required in any fences across its rights-of-way. Also, any walks or drainage facilities across its access route must be constructed to AASHTO H-20 loading standards.

f. Rights to landscape any of Metropolitan's fee properties must be acquired from its Right of Way and Land Division. Appropriate entry permits must be obtained prior to any entry on its property. There will be a charge for any entry permit or easements required.

6. Fencing

Metropolitan requires that perimeter fencing of its fee properties and facilities be constructed of universal chain link, 6 feet in height and topped with 3 strands of barbed wire angled upward and outward at a 45 degree angle or an approved equal for a total fence height of 7 feet. Suitable substitute fencing may be considered by Metropolitan. (Please see Figure 5 for details).

7. Utilities in Metropolitan's Fee Properties and/or Easements or Adjacent to Its Pipeline in Public Streets

Metropolitan's policy for the alinement of utilities permitted within its fee properties and/or easements and street rights-of-way is as follows:

a. Permanent structures, including catch basins, manholes, power poles, telephone riser boxes, etc., shall not be located within its fee properties and/or easements.

b. We request that permanent utility structures within public streets, in which Metropolitan's facilities are constructed under the Metropolitan Water District Act, be placed as far from our pipeline as possible, but not closer than 5 feet from the outside of our pipeline.

c. The installation of utilities over or under Metropolitan's pipeline(s) must be in accordance with the requirements shown on the enclosed prints of Drawings Nos. C-11632 and C-9547. Whenever possible we request a minimum of one foot clearance between Metropolitan's pipe and your facility. Temporary support of Metropolitan's pipe may also be required at undercrossings of its pipe in an open trench. The temporary support plans must be reviewed and approved by Metropolitan.

d. Lateral utility crossings of Metropolitan's pipelines must be as perpendicular to its pipeline alignment as practical. Prior to any excavation our pipeline shall be located manually and any excavation within two feet of our pipeline must be done by hand. This shall be noted on the appropriate drawings.

e. Utilities constructed longitudinally within Metropolitan's rights-of-way must be located outside the theoretical trench prism for uncovering its pipeline and must be located parallel to and as close to its rights-of-way lines as practical.

f. When piping is jacked or installed in jacked casing or tunnel under Metropolitan's pipe, there must be at least two feet of vertical clearance between the bottom of Metropolitan's pipe and the top of the jacked pipe, jacked casing or tunnel. We also require that detail drawings of the shoring for the jacking or tunneling pits be submitted for our review and approval. Provisions must be made to grout any voids around the exterior of the jacked pipe, jacked casing or tunnel. If the piping is installed in a jacked casing or tunnel the annular space between the piping and the jacked casing or tunnel must be filled with grout.

g. Overhead electrical and telephone line requirements:

1) Conductor clearances are to conform to the California State Public Utilities Commission, General Order 95, for Overhead Electrical Line Construction or at a greater clearance if required by Metropolitan. Under no circumstances shall clearance be less than 35 feet.

2) A marker must be attached to the power pole showing the ground clearance and line voltage, to help prevent damage to your facilities during maintenance or other work being done in the area.

3) Line clearance over Metropolitan's fee properties and/or easements shall be shown on the drawing to indicate the lowest point of the line under the most adverse conditions including consideration of sag, wind load, temperature change, and support type. We require that overhead lines be located at least 30 feet laterally away from all above-ground structures on the pipelines.

4) When underground electrical conduits, 120 volts or greater, are installed within Metropolitan's fee property and/or easement, the conduits must be incased in a minimum of three inches of red concrete. Where possible, above ground warning signs must also be placed at the right-of-way lines where the conduits enter and exit the right-of-way.

h. The construction of sewerlines in Metropolitan's fee properties and/or easements must conform to the California Department of Health Services Criteria for the Separation of Water Mains and Sanitary Services and the local City or County Health Code Ordinance as it relates to installation of sewers in the vicinity of pressure waterlines. The construction of sewerlines should also conform to these standards in street rights-of-way.

i. Cross sections shall be provided for all pipeline crossings showing Metropolitan's fee property and/or easement limits and the location of our pipeline(s). The exact locations of the crossing pipelines and their elevations shall be marked on as-built drawings for our information.

j. Potholing of Metropolitan's pipeline is required if the vertical clearance between a utility and Metropolitan's pipeline is indicated on the plan to be one foot or less. If the indicated clearance is between one and two feet, potholing is suggested. Metropolitan will provide a representative to assist others in locating and identifying its pipeline. Two-working days notice is requested.

k. Adequate shoring and bracing is required for the full depth of the trench when the excavation encroaches within the zone shown on Figure 4.

l. The location of utilities within Metropolitan's fee property and/or easement shall be plainly marked to help prevent damage during maintenance or other work done in the area. Detectable tape over buried utilities should be placed a minimum of 12 inches above the utility and shall conform to the following requirements:

1) Water pipeline: A two-inch blue warning tape shall be imprinted with:

"CAUTION BURIED WATER PIPELINE"

2) Gas, oil, or chemical pipeline: A two-inch yellow warning tape shall be imprinted with:

"CAUTION BURIED _____ PIPELINE"

3) Sewer or storm drain pipeline: A two-inch green warning tape shall be imprinted with:

"CAUTION BURIED _____ PIPELINE"

4) Electric, street lighting, or traffic signals conduit: A two-inch red warning tape shall be imprinted with:

"CAUTION BURIED _____ CONDUIT"

5) Telephone, or television conduit: A two-inch orange warning tape shall be imprinted with:

"CAUTION BURIED _____ CONDUIT"

m. Cathodic Protection requirements:

1) If there is a cathodic protection station for Metropolitan's pipeline in the area of the proposed work, it shall be located prior to any grading or excavation. The exact location, description and manner of protection shall be shown on all applicable plans. Please contact Metropolitan's Corrosion Engineering Section, located at Metropolitan's F. E. Weymouth Softening and Filtration Plant, 700 North Moreno Avenue, La Verne, California 91750, telephone (714) 593-7474, for the locations of Metropolitan's cathodic protection stations.

2) If an induced-current cathodic protection system is to be installed on any pipeline crossing Metropolitan's pipeline, please contact Mr. Wayne E. Risner at (714) 593-7474 or (213) 250-5085. He will review the proposed system and determine if any conflicts will arise with the existing cathodic protection systems installed by Metropolitan.

3) Within Metropolitan's rights-of-way, pipelines and carrier pipes (casings) shall be coated with an approved protective coating to conform to Metropolitan's requirements, and shall be maintained in a neat and orderly condition as directed by Metropolitan. The application and monitoring of cathodic protection on the pipeline and casing shall conform to Title 49 of the Code of Federal Regulations, Part 195.

4) If a steel carrier pipe (casing) is used:

(a) Cathodic protection shall be provided by use of a sacrificial magnesium anode (a sketch showing the cathodic protection details can be provided for the designers information).

(b) The steel carrier pipe shall be protected with a coal tar enamel coating inside and out in accordance with AWWA C203 specification.

n. All trenches shall be excavated to comply with the CAL/OSHA Construction Safety Orders, Article 6, beginning with Sections 1539 through 1547. Trench backfill shall be placed in 8-inch lifts and shall be compacted to 95 percent relative compaction (ASTM D698) across roadways and through protective dikes. Trench backfill elsewhere will be compacted to 90 percent relative compaction (ASTM D698).

o. Control cables connected with the operation of Metropolitan's system are buried within streets, its fee properties and/or easements. The locations and elevations of these cables shall be shown on the drawings. The drawings shall note that prior to any excavation in the area, the control cables shall be located and measures shall be taken by the contractor to protect the cables in place.

p. Metropolitan is a member of Underground Service Alert (USA). The contractor (excavator) shall contact USA at 1-800-422-4133 (Southern California) at least 48 hours prior to starting any excavation work. The contractor will be liable for any damage to Metropolitan's facilities as a result of the construction.

8. Paramount Right

Facilities constructed within Metropolitan's fee properties and/or easements shall be subject to the paramount right of Metropolitan to use its fee properties and/or easements for the purpose for which they were acquired. If at any time Metropolitan or its assigns should, in the exercise of their rights, find it necessary to remove any of the facilities from the fee properties and/or easements, such removal and replacement shall be at the expense of the owner of the facility.

9. Modification of Metropolitan's Facilities

When a manhole or other of Metropolitan's facilities must be modified to accommodate your construction or reconstruction, Metropolitan will modify the facilities with its forces. This should be noted on the construction plans. The estimated cost to perform this modification will be given to you and we will require a deposit for this amount before the work is performed. Once the deposit is received, we will schedule the work. Our forces will coordinate the work with your contractor. Our final billing will be based on actual cost incurred, and will include materials, construction, engineering plan review, inspection, and administrative overhead charges calculated in accordance with Metropolitan's standard accounting practices. If the cost is less than the deposit, a refund will be made; however, if the cost exceeds the deposit, an invoice will be forwarded for payment of the additional amount.

10. Drainage

a. Residential or commercial development typically increases and concentrates the peak storm water runoff as well as the total yearly storm runoff from an area, thereby increasing the requirements for storm drain facilities downstream of the development. Also, throughout the year water from landscape irrigation, car washing, and other outdoor domestic water uses flows into the storm drainage system resulting in weed abatement, insect infestation, obstructed access and other problems. Therefore, it is Metropolitan's usual practice not to approve plans that show discharge of drainage from developments onto its fee properties and/or easements.

b. If water must be carried across or discharged onto Metropolitan's fee properties and/or easements, Metropolitan will insist that plans for development provide that it be carried by closed conduit or lined open channel approved in writing by Metropolitan. Also the drainage facilities must be maintained by others, e.g., city, county, homeowners association, etc. If the development proposes changes to existing drainage features, then the developer shall make provisions to provide for replacement and these changes must be approved by Metropolitan in writing.

11. Construction Coordination

During construction, Metropolitan's field representative will make periodic inspections. We request that a stipulation be added to the plans or specifications for notification of Mr. _____ of Metropolitan's Operations Services Branch, telephone (213) 250-_____, at least two working days prior to any work in the vicinity of our facilities.

12. Pipeline Loading Restrictions

a. Metropolitan's pipelines and conduits vary in structural strength, and some are not adequate for AASHTO H-20 loading. Therefore, specific loads over the specific sections of pipe or conduit must be reviewed and approved by Metropolitan. However, Metropolitan's pipelines are typically adequate for AASHTO H-20 loading provided that the cover over the pipeline is not less than four feet or the cover is not substantially increased. If the temporary cover over the pipeline during construction is between three and four feet, equipment must be restricted to that which

imposes loads no greater than AASHTO H-10. If the cover is between two and three feet, equipment must be restricted to that of a Caterpillar D-4 tract-type tractor. If the cover is less than two feet, only hand equipment may be used. Also, if the contractor plans to use any equipment over Metropolitan's pipeline which will impose loads greater than AASHTO H-20, it will be necessary to submit the specifications of such equipment for our review and approval at least one week prior to its use. More restrictive requirements may apply to the loading guideline over the San Diego Pipelines 1 and 2, portions of the Orange County Feeder, and the Colorado River Aqueduct. Please contact us for loading restrictions on all of Metropolitan's pipelines and conduits.

b. The existing cover over the pipeline shall be maintained unless Metropolitan determines that proposed changes do not pose a hazard to the integrity of the pipeline or an impediment to its maintenance.

13. Blasting

a. At least 20 days prior to the start of any drilling for rock excavation blasting, or any blasting, in the vicinity of Metropolitan's facilities, a two-part preliminary conceptual plan shall be submitted to Metropolitan as follows:

b. Part 1 of the conceptual plan shall include a complete summary of proposed transportation, handling, storage, and use of explosions.

c. Part 2 shall include the proposed general concept for blasting, including controlled blasting techniques and controls of noise, fly rock, airblast, and ground vibration.

14. CEQA Requirements

a. When Environmental Documents Have Not Been Prepared

1) Regulations implementing the California Environmental Quality Act (CEQA) require that Metropolitan have an opportunity to consult with the agency or consultants preparing any environmental documentation. We are required to review and consider the environmental effects of the project as shown in the Negative Declaration or Environmental Impact Report (EIR) prepared for your project before committing Metropolitan to approve your request.

2) In order to ensure compliance with the regulations implementing CEQA where Metropolitan is not the Lead Agency, the following minimum procedures to ensure compliance with the Act have been established:

a) Metropolitan shall be timely advised of any determination that a Categorical Exemption applies to the project. The Lead Agency is to advise Metropolitan that it and other agencies participating in the project have complied with the requirements of CEQA prior to Metropolitan's participation.

b) Metropolitan is to be consulted during the preparation of the Negative Declaration or EIR.

c) Metropolitan is to review and submit any necessary comments on the Negative Declaration or draft EIR.

d) Metropolitan is to be indemnified for any costs or liability arising out of any violation of any laws or regulations including but not limited to the California Environmental Quality Act and its implementing regulations.

b. When Environmental Documents Have Been Prepared

If environmental documents have been prepared for your project, please furnish us a copy for our review and files in a timely manner so that we may have sufficient time to review and comment. The following steps must also be accomplished:

1) The Lead Agency is to advise Metropolitan that it and other agencies participating in the project have complied with the requirements of CEQA prior to Metropolitan's participation.

2) You must agree to indemnify Metropolitan, its officers, engineers, and agents for any costs or liability arising out of any violation of any laws or regulations including but not limited to the California Environmental Quality Act and its implementing regulations.

15. Metropolitan's Plan-Review Cost

a. An engineering review of your proposed facilities and developments and the preparation of a letter response

giving Metropolitan's comments, requirements and/or approval that will require 8 man-hours or less of effort is typically performed at no cost to the developer, unless a facility must be modified where Metropolitan has superior rights. If an engineering review and letter response requires more than 8 man-hours of effort by Metropolitan to determine if the proposed facility or development is compatible with its facilities, or if modifications to Metropolitan's manhole(s) or other facilities will be required, then all of Metropolitan's costs associated with the project must be paid by the developer, unless the developer has superior rights.

b. A deposit of funds will be required from the developer before Metropolitan can begin its detailed engineering plan review that will exceed 8 hours. The amount of the required deposit will be determined after a cursory review of the plans for the proposed development.

c. Metropolitan's final billing will be based on actual cost incurred, and will include engineering plan review, inspection, materials, construction, and administrative overhead charges calculated in accordance with Metropolitan's standard accounting practices. If the cost is less than the deposit, a refund will be made; however, if the cost exceeds the deposit, an invoice will be forwarded for payment of the additional amount. Additional deposits may be required if the cost of Metropolitan's review exceeds the amount of the initial deposit.

16. Caution

We advise you that Metropolitan's plan reviews and responses are based upon information available to Metropolitan which was prepared by or on behalf of Metropolitan for general record purposes only. Such information may not be sufficiently detailed or accurate for your purposes. No warranty of any kind, either express or implied, is attached to the information therein conveyed as to its accuracy, and no inference should be drawn from Metropolitan's failure to comment on any aspect of your project. You are therefore cautioned to make such surveys and other field investigations as you may deem prudent to assure yourself that any plans for your project are correct.

17. Additional Information

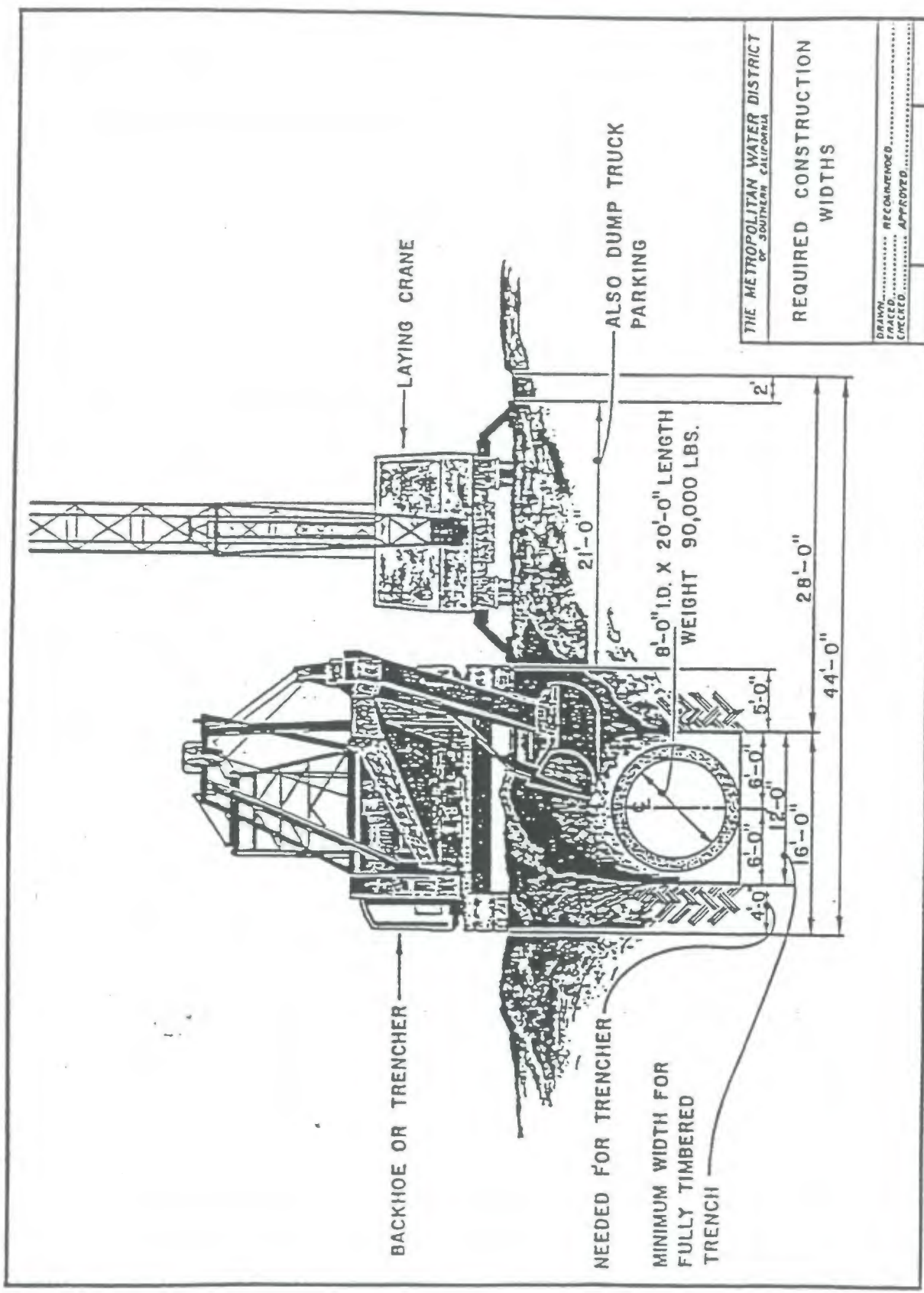
Should you require additional information, please contact:

Civil Engineering Substructures Section
Metropolitan Water District
of Southern California
P.O. Box 54153
Los Angeles, California 90054-0153
(213) 217-6000

JEH/MRW/lk

Rev. January 22, 1989

Encl.

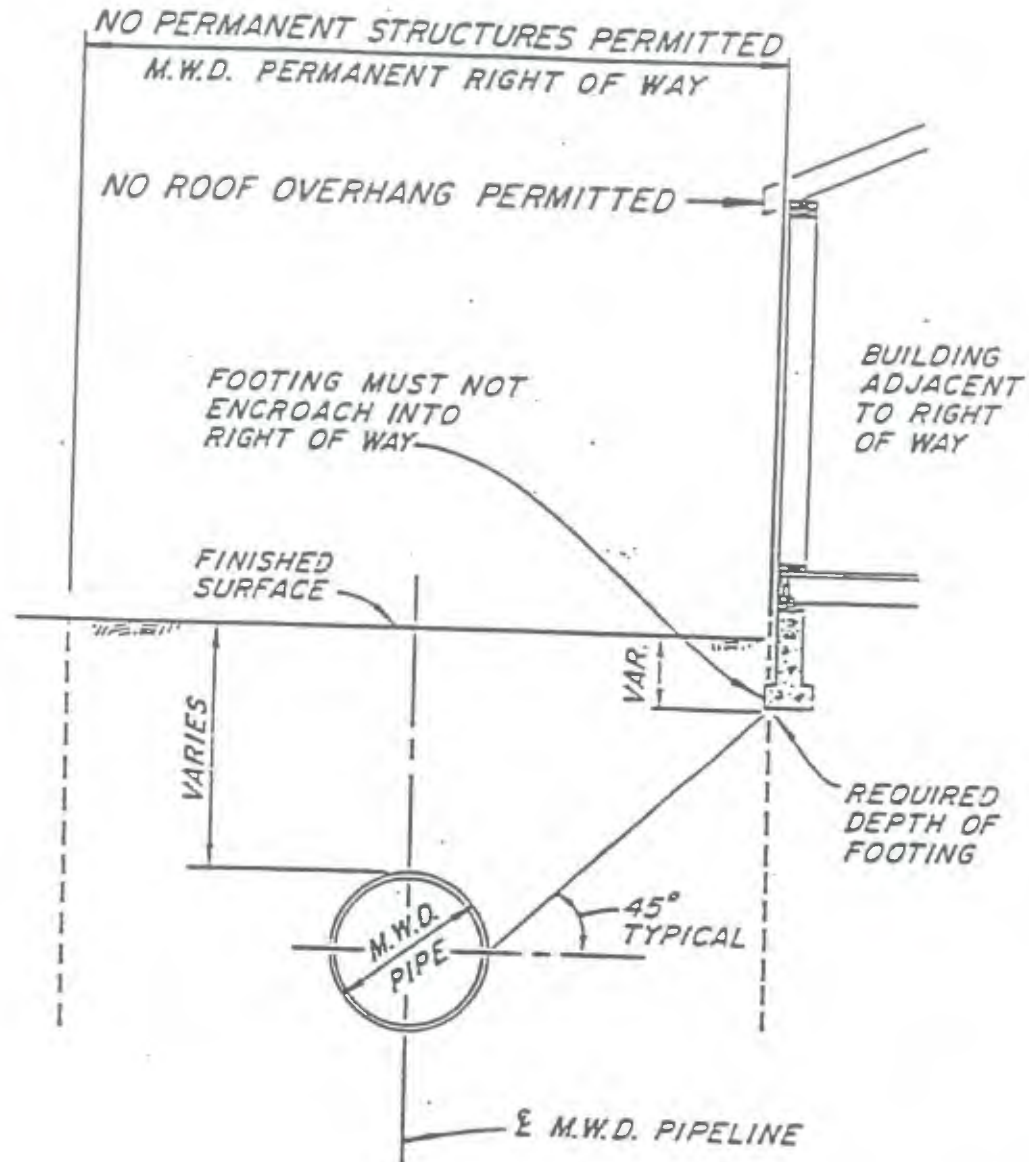


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

REQUIRED CONSTRUCTION
WIDTHS

DRAWN..... RECOMMENDED.....
CHECKED..... APPROVED.....

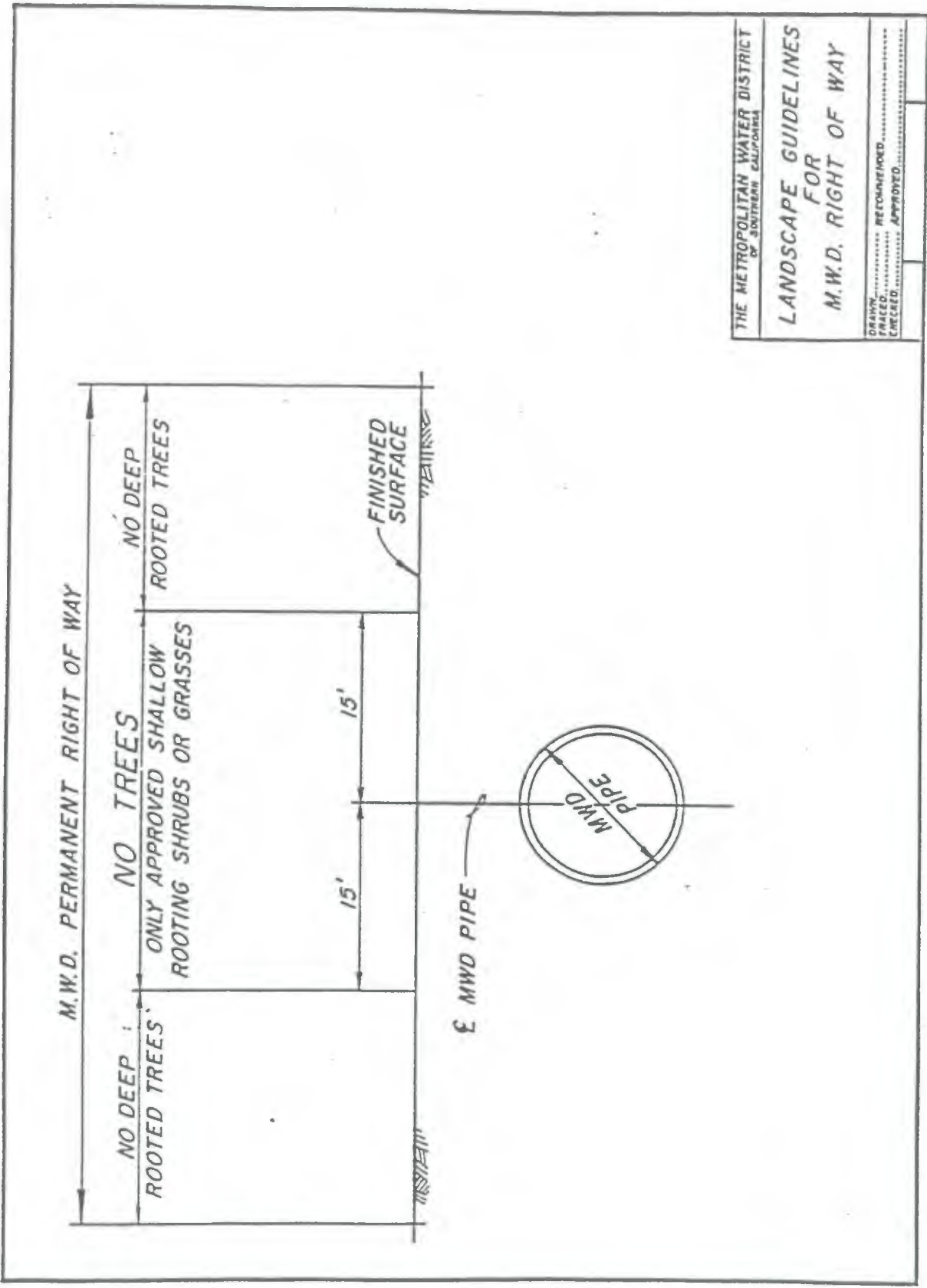
FIGURE 1



NOTE: M.W.D. PIPELINE SIZE, DEPTH, LOCATION AND WIDTH OF PERMANENT RIGHT OF WAY VARIES.

| | |
|--|-------------------|
| THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA | |
| REQUIREMENTS FOR BUILDINGS AND FOOTINGS ADJACENT TO M.W.D. RIGHT OF WAY | |
| DRAWN _____ | RECOMMENDED _____ |
| TRACED _____ | APPROVED _____ |
| CHECKED _____ | |

FIGURE 2

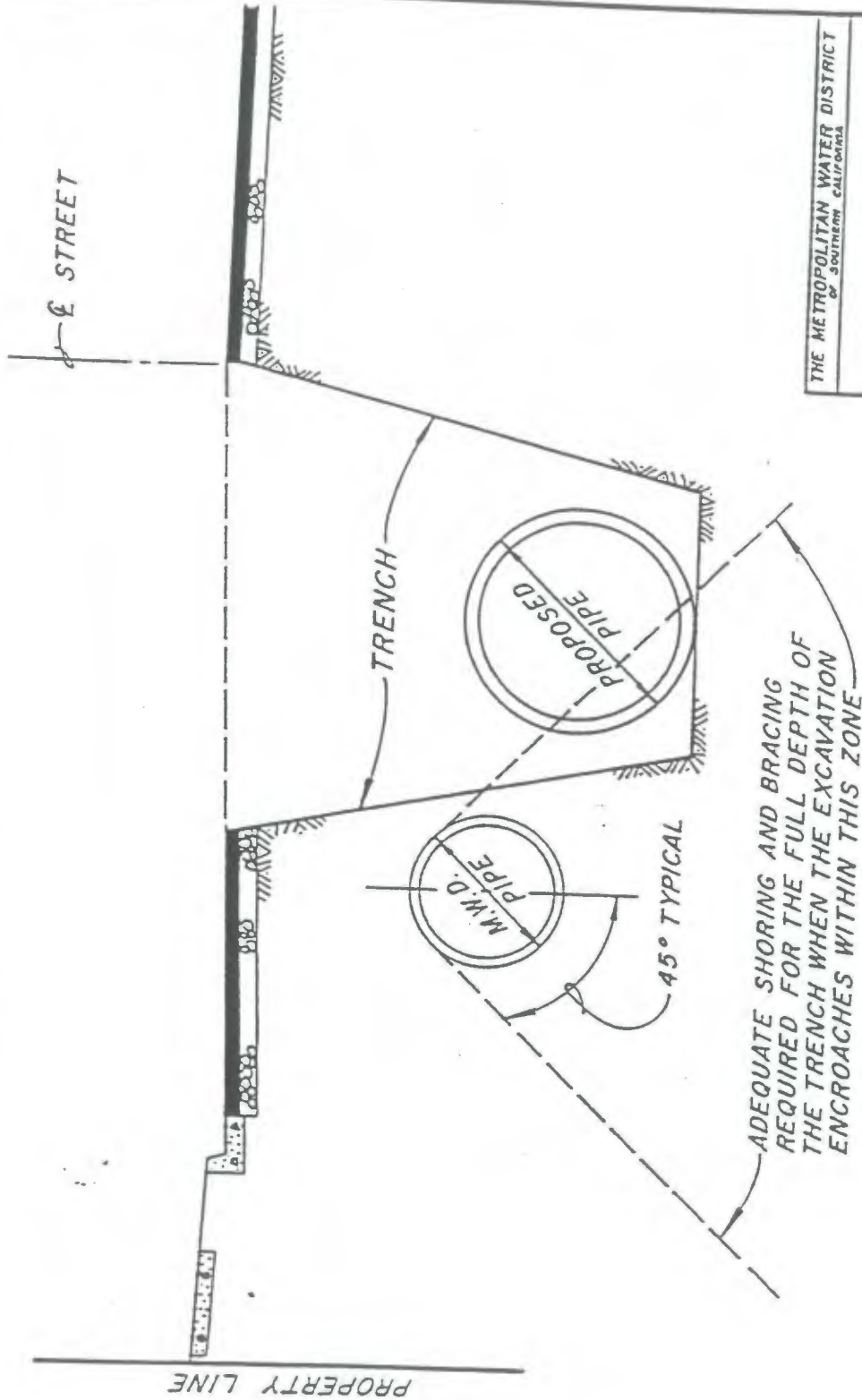


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

LANDSCAPE GUIDELINES
FOR
M.W.D. RIGHT OF WAY

DRAWN RECOMMENDED
 CHECKED APPROVED

FIGURE 3

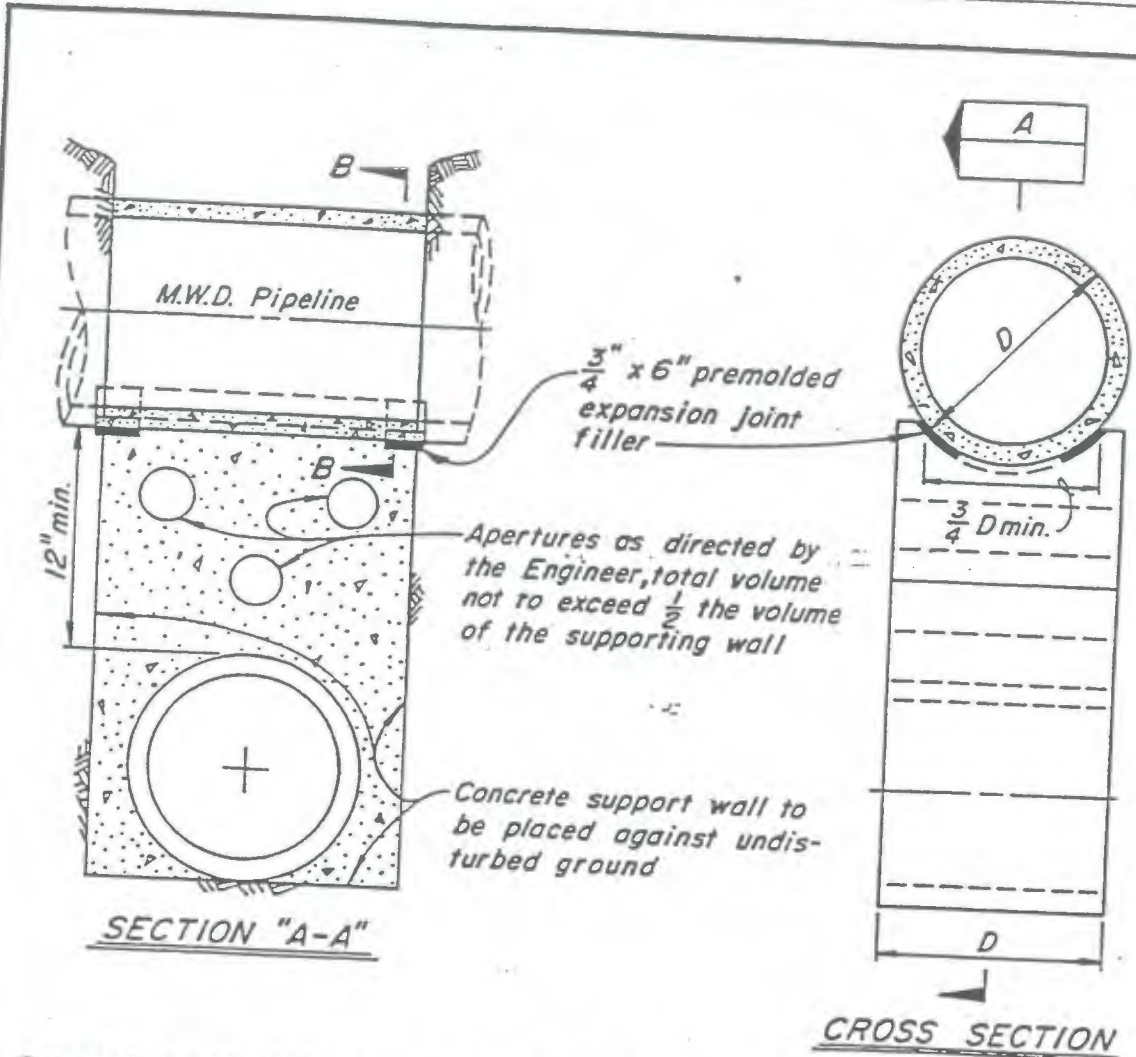


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

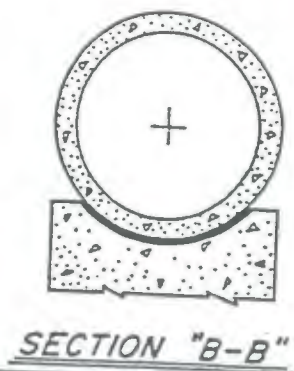
**SHORING AND BRACING
REQUIREMENTS**

DRAWN..... RECOMMENDED.....
 CHECKED..... APPROVED.....

FIGURE 4



1. Supporting wall shall have a firm bearing on the subgrade and against the side of the excavation.
2. Premolded expansion joint filler per ASTM D-1751-73 to be used in support for steel pipe only.
3. If trench width is 4 feet or greater, measured along centerline of M.W.D. pipe, concrete support must be constructed.
4. If trench width is less than 4 feet, clean sand backfill, compacted to 90% density in accordance with the provisions of ASTM Standard D-1557-70 may be used in lieu of the concrete support wall.

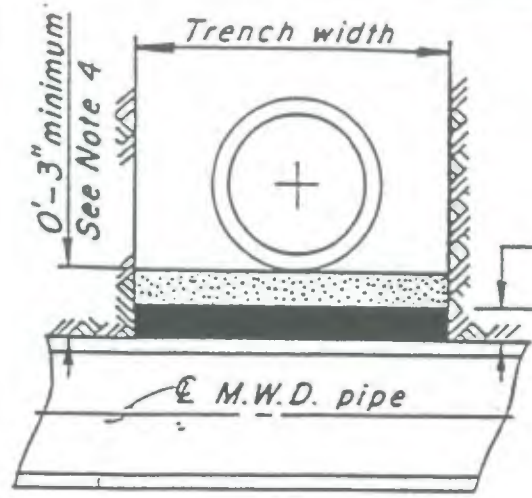


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

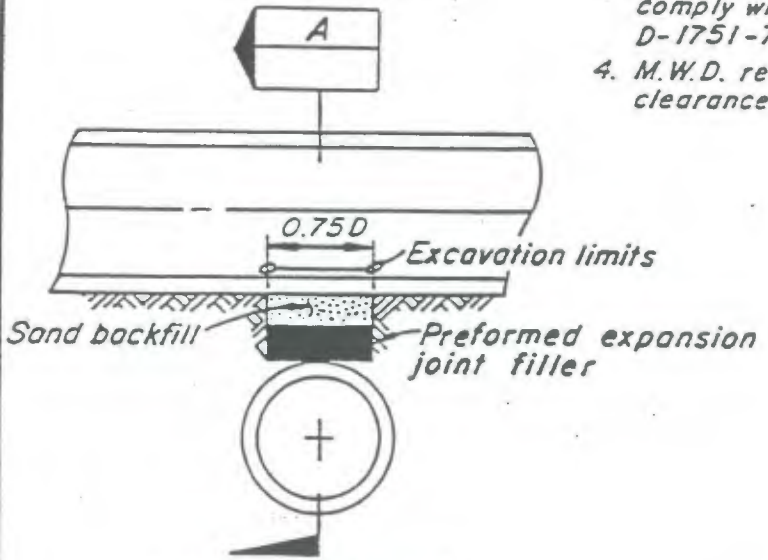
**TYPICAL SUPPORT FOR
M.W.D. PIPELINE**

| | |
|---------------|-------------------|
| DRAWN _____ | RECOMMENDED _____ |
| TRACED _____ | APPROVED _____ |
| CHECKED _____ | |

C-9547



SECTION A



CROSS SECTION

3" Preformed expansion joint filler

NOTES

1. This method to be used where the utility line is 24" or greater in diameter and the clearance between the utility line and M.W.D. pipe is 12" or less.
2. Special protection may be required if the utility line diameter is greater than M.W.D. pipe or if the cover over the utility line to the street surface is minimal and there is 12" or less clearance between M.W.D. pipe and the utility line.
3. Preformed expansion joint filler to comply with ASTM designation D-1751-73.
4. M.W.D. requests 12" minimum clearance whenever possible.

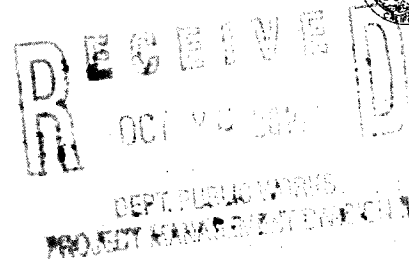
| | |
|--|-------------------|
| THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA | |
| TYPICAL EXPANSION JOINT FILLER PROTECTION FOR OVCROSSING OF M.W.D. PIPELINE | |
| DRAWN _____ | RECOMMENDED _____ |
| TRACED _____ | APPROVED _____ |
| CHECKED _____ | |
| C-11632 | |



STATE OF CALIFORNIA
 NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Blvd., ROOM 100
 West SACRAMENTO, CA 95691
 (916) 373-3710
 Fax (916) 373-5471

September 25, 2014



Gregg BeGell
 Los Angeles County Flood Control District
 900 South Fremont Avenue, 11th Floor
 Alhambra, CA 91803

RE: SCH# 2014081106 Enhanced Watershed Management Programs (EWMP) Program EIR, Los Angeles County.

Dear Mr. BeGell,

The Native American Heritage Commission (NAHC) has reviewed the Notice of Preparation (NOP) referenced above. The California Environmental Quality Act (CEQA) states that any project that causes a substantial adverse change in the significance of an historical resource, which includes archeological resources, is a significant effect requiring the preparation of an EIR (CEQA Guidelines 15064(b)). To comply with this provision the lead agency is required to assess whether the project will have an adverse impact on historical resources within the area of project effect (APE), and if so to mitigate that effect. To adequately assess and mitigate project-related impacts to archaeological resources, the NAHC recommends the following actions:

- ✓ Contact the appropriate regional archaeological Information Center for a record search. The record search will determine:
 - If a part or all of the area of project effect (APE) has been previously surveyed for cultural resources.
 - If any known cultural resources have already been recorded on or adjacent to the APE.
 - If the probability is low, moderate, or high that cultural resources are located in the APE.
 - If a survey is required to determine whether previously unrecorded cultural resources are present.
- ✓ If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure.
 - The final written report should be submitted within 3 months after work has been completed to the appropriate regional archaeological Information Center.
- ✓ Contact the Native American Heritage Commission for:
 - A Sacred Lands File Check. **USGS 7.5-minute quadrangle name, township, range, and section required**
 - A list of appropriate Native American contacts for consultation concerning the project site and to assist in the mitigation measures. **Native American Contacts List attached**
- ✓ Lack of surface evidence of archeological resources does not preclude their subsurface existence.
 - Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, per California Environmental Quality Act (CEQA) Guidelines §15064.5(f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities.
 - Lead agencies should include in their mitigation plan provisions for the disposition of recovered cultural items that are not burial associated, which are addressed in Public Resources Code (PRC) §5097.98, in consultation with culturally affiliated Native Americans.
 - Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, PRC §5097.98, and CEQA Guidelines §15064.5(e), address the process to be followed in the event of an accidental discovery of any human remains and associated grave goods in a location other than a dedicated cemetery.

Sincerely,

Katy Sanchez

Katy Sanchez
 Associate Government Program Analyst

CC: State Clearinghouse

**Native American Contacts
Los Angeles County
September 25, 2014**

Tongva Ancestral Territorial Tribal Nation
John Tommy Rosas, Tribal Admin.
Gabrielino Tongva
tattnlaw@gmail.com
(310) 570-6567

Gabrielino-Tongva Tribe
Bernie Acuna, Co-Chairperson
Contact information unavailable Gabrielino

Last attempted verification 9/5/14

(310) 428-5690 Cell

Gabrielino/Tongva San Gabriel Band of Mission Indian
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino Tongva
San Gabriel, CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell
(626) 286-1262 Fax

Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson
Contact information unavailable Gabrielino

Last attempted verification 9/5/14

(626) 676-1184 Cell

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St. Gabrielino Tongva
Los Angeles, CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

Gabrielino Band of Mission Indians
Andrew Salas, Chairperson
P.O. Box 393 Gabrielino
Covina, CA 91723
gabrielenoindians@yahoo.
(626) 926-4131

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Tribal Chair/Cultural Resources
P.O. Box 490 Gabrielino Tongva
Bellflower, CA 90707
gtongva@verizon.net
(562) 761-6417 Voice/Fax

Gabrielino-Tongva Tribe
Conrad Acuna
Contact information unavailable Gabrielino

Last attempted verification 9/5/14

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH # 2014081106, Enhanced Watershed Management Programs (EWMP) Program EIR, Los Angeles County.

**Native American Contacts
Los Angeles County
September 25, 2014**

Gabrielino /Tongva Nation
Sam Dunlap, Cultural Resources Director
P.O. Box 86908 Gabrielino Tongva
Los Angeles , CA 90086
samdunlap@earthlink.net
(909) 262-9351

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH # 2014081106, Enhanced Watershed Management Programs (EWMP) Program EIR, Los Angeles County.

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Tuesday, September 30, 2014 7:08 AM
To: Crumpacker, Andrea; David Pohl; Bellizia, Thomas W.
Subject: FW: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR EWMP'S FOR L.A. COUNTY

Another clone

Gregg BeGell P E
Project Manager
Project Management Division II

From: douglaspfay@aol.com [<mailto:douglaspfay@aol.com>]
Sent: Monday, September 29, 2014 9:19 PM
To: Begell, Gregg - Consultant
Cc: rexfrankel@yahoo.com
Subject: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR EWMP'S FOR L.A. COUNTY

Dear DWP Representatives and Interested Parties,

I understand why no one but Rex Frankel attended the NOP hearing on September 9th in Marina Del Rey. You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

In 2006, L.A. City proposed its first big plan under this agreement, an Implementation Plan for the Santa Monica Bay Beaches watersheds. This plan was sent back for redrafting by the RWQCB as it only reached 2% of its target and thus, would not accomplish the goal in the consent decree.

Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

You also were to include identifying a location(s) adjacent to the Oxford Lagoon Bird Conservation Area where a water treatment and recycling facility could be located. This was intended to be a mandatory component of the future, now current, Oxford Basin Multiuse Enhancement Project. The City of Los Angeles Thatcher Maintenance Yard is an ideal location for a facility that could serve Marina del Rey and the Oxford Triangle neighborhood. The Oxford Basin Project should not proceed, including Prop 84 funding, until a recycled water component is included as promised.

In 2012, the County Supervisors tried to quietly approve a \$300 million per year property tax hike to build a non-existent list of runoff cleansing and capturing projects. Howls of opposition arose and that plan went nowhere. The public wanted to know what they were paying for.

Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary

parts, yet deferring analysis and the controversy to a multitude of separate EIRs and CEQA documents and public hearings, all the while public input is diffused. We never get to weigh in on whether we like the complete plan because the Program EIR has no specifics to arouse concern and the real project discussion is delayed until much later in a way that requires massive efforts by the public to keep track of the success of the big plan.

The people who will pay for this plan want to see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you produce an EIR, not the other way around.

Please put me on the notification list for all actions relating to this project.

Respectfully submitted,

Douglas Fay
644 Ashland Ave Apt A
Santa Monica, CA 90405
email: douglasfay@aol.com

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Monday, September 29, 2014 4:32 PM
To: Crumpacker, Andrea; David Pohl; Tom Barnes
Subject: FW: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

A clone of Rex's comment.

Gregg BeGell P E

Project Manager

Project Management Division II

From: Donna Murray [<mailto:dlmurray47@gmail.com>]
Sent: Monday, September 29, 2014 4:28 PM
To: Begell, Gregg - Consultant
Subject: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

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Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

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Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary parts, yet deferring analysis and the controversy to a multitude of separate EIRs and CEQA documents and public hearings, all the while public input is diffused. We never get to weigh in on whether we like the complete plan because the Program EIR has no specifics to arouse concern and the real project discussion is delayed until much later in a way that requires massive efforts by the public to keep track of the success of the big plan.

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Please put me on the notification list for all actions relating to this project. Thank you.

Donna Murray
8734 Wiley Post Av
Los Angeles, CA 90045

[Why this ad?](#) Ads –

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Monday, September 29, 2014 4:41 PM
To: Crumpacker, Andrea; Tom Barnes; David Pohl
Subject: FW: Comments LACFCD SCH 2014081106 NOP Enhanced Watershed Management Programs due 9.29.2014

Here are a few good comments.

Are you filing all the comments into a file or folder such that the County can view all the comments in one place?

Gregg BeGell P E

Project Manager

Project Management Division II

From: Joyce Dillard [<mailto:dillardjoyce@yahoo.com>]
Sent: Monday, September 29, 2014 4:30 PM
To: Begell, Gregg - Consultant
Subject: Comments LACFCD SCH 2014081106 NOP Enhanced Watershed Management Programs due 9.29.2014

The Project Description is listed on the State Clearinghouse site as:

The development of the EWMP will involve the evaluation and selection of multiple watershed control measures or best management practices (BMP) types including non-structural and distributed, centralized and regional structural BMPs. These BMPs will be implemented to meet compliance goals and strategies under the 2014 MS4 Permit. Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage. These are three categories of structural BMPs, defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit.

Comments:

Watershed control measures seems to be the emphasis, but that term is not defined. It seems to exclude Watershed Protection Management Measure in areas applicable to the Coastal Zone Act Reauthorization Amendments which recognizes the impact of land-use activities on estuaries, beaches, marine resources and the ocean. *Economically feasible measures* and *greatest degree of pollutant reduction achievable* are terms from that Act.

All receiving waters should be identified as to type and federal jurisdiction.

The project only allows a build environment in a watershed that should have natural lands, ecosystems and normal watershed characteristics including ambient water quality standards and the Southern California Bight.

Antidegradation procedures should be addressed.

Alternatives should be presented for non-structural or structural projects.

Surrounding land uses and settings should be addressed as should settings such as air space in relationship to bird migratory patterns. Ambient air quality should be included.

Other public agencies should be included. US Army Corps of Engineers plays a role in navigable waters as does Caltrans in its responsibility for NPDES compliance.

Private parties, such as Lauren Bon (Water Rights Draft Permit A032212) should be included.

Baselines should be presented.

There should be consistency including applications of the various General Plan and its Elements across jurisdictions. Infrastructure should be addressed including but not limited to age, condition and operations and maintenance.

Since federal regulations are enforced involving Clean Water Act Navigable Waters, we question why there is no NEPA document preparation.

Joyce Dillard
P.O. Box 31377
Los Angeles, CA 90031

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Monday, October 06, 2014 6:59 AM
To: Crumpacker, Andrea; David Pohl
Subject: FW: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR LA COUNTY

Comment Letter.

Gregg BeGell P E
Project Manager
Project Management Division II

From: patricia mc pherson [mailto:patriciamcpherson1@verizon.net]
Sent: Friday, October 03, 2014 1:27 PM
To: Begell, Gregg - Consultant
Subject: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR LA COUNTY

Grassroots Coalition submits its support of the comments made below by Mr. Rex Frankel. Due on the 29th, GC was in transit from out of state and belatedly requests that its support of the comments below be part of the record.

Please also note attachment of imagery of California.

Currently, the State Coastal Conservancy and the Dept of Fish and Wildlife have created a preordained outcome for the Ballona Wetlands Restoration. This outcome that has been determined to destroy the freshwater aquifers of Ballona (classified as potential drinking water) without the legal requirements of public participation and transparency of process that the millions of dollars of public bond money set forth in 2004. Such destructive plans to the watershed of the Ballona Valley should not be allowed to proceed.

The failure of the state to fully engage the public and provide accountability and transparency of process has led to the dire situation of groundwater removal that California and Ballona Wetlands have.

<http://www.latimes.com/science/sciencenow/la-sci-sn-california-drought-groundwater-satellite-20141002-story.html>

Thank you,
Patricia McPherson, President -Grassroots Coalition

COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

September 29, 2014, 1:30 pm

From Rex Frankel, director, Ballona Ecosystem Education Project,
6038 west 75th street, L.A. CA 90045
310-738-0861, email: rexfrankel@yahoo.com

I understand why no one but myself attended the NOP hearing on September 9th in Marina Del Rey. You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

In 2006, L.A. City proposed its first big plan under this agreement, an Implementation Plan for the Santa Monica Bay Beaches watersheds. This plan was sent back for redrafting by the RWQCB as it only reached 2% of its target and thus, would not accomplish the goal in the consent decree.

Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

In 2012, the County Supervisors tried to quietly approve a \$300 million per year property tax hike to build a non-existent list of runoff cleansing and capturing projects. Howls of opposition arose and that plan went nowhere. The public wanted to know what they were paying for.

Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary parts, yet deferring analysis and the controversy to a multitude of separate EIRs and CEQA documents and public hearings, all the while public input is diffused. We never get to weigh in on whether we like the complete plan because the Program EIR has no specifics to arouse concern and the real project discussion is delayed until much later in a way that requires massive efforts by the public to keep track of the success of the big plan.

The people who will pay for this plan want to see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you produce an EIR, not the other way around.

Please put me on the notification list for all actions relating to this project. Thank you.

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Tuesday, October 14, 2014 4:06 PM
To: Crumpacker, Andrea; David Pohl
Subject: FW: Restoration of Baldwin Lake

Comment for record

Gregg BeGell P E
Project Manager
Project Management Division II

From: Jane Florentinus [<mailto:java5@att.net>]
Sent: Tuesday, October 14, 2014 1:23 PM
To: Begell, Gregg - Consultant
Subject: Restoration of Baldwin Lake

Hello Mr. BeGell,

I am a volunteer and member of the Arboretum located in Arcadia and would like to express my concern for the poor condition of the lake. As a volunteer docent I provide guided walks through the gardens as well as the lake perimeter. Visitors are dismayed and saddened to see the decline of such a great and wonderful treasure in the midst of our urban lifestyle. To have open space in our crowded communities is truly a rarity and must be preserved for future generations to appreciate. Please take my request for restoring the lake to heart.

Thank you for reading my message.

Jane Florentinus
7140 Hidden Pine Drive
San Gabriel, CA 91775
Copy of email sent to G. Osmena

Laura Rocha

From: Osmena, Genevieve <gosmena@dpw.lacounty.gov>
Sent: Monday, November 10, 2014 10:03 AM
To: Dale or Miriam Carter
Subject: RE: Baldwin Lake/Enhanced Watershed Management Plan

Mr. Carter,

Thank you for your email regarding Baldwin Lake at the LA Arboretum. I have added your contact information to the stakeholder list for the Rio Hondo/San Gabriel River Water Quality Group to receive notifications of future stakeholder meetings regarding the group's Enhanced Watershed Management Program (EWMP). We anticipate the next stakeholder meeting to occur in early to mid-Spring of next year to discuss the progress of the EWMP process with interested stakeholders. I have also forwarded your email to the group members for their consideration as they continue to discuss and develop their EWMP plan.

Thanks again for your comments.

Genevieve Osmeña, P.E.

*County of Los Angeles Department of Public Works
East Unincorporated County MS4 Permit Compliance
Watershed Management Division
(626) 458-3978
gosmena@dpw.lacounty.gov*

From: Dale or Miriam Carter [<mailto:dmcart@att.net>]
Sent: Wednesday, October 29, 2014 5:01 PM
To: Begell, Gregg - Consultant; Osmena, Genevieve
Cc: Snider Sandy; Schulhof Richard
Subject: Baldwin Lake/Enhanced Watershed Management Plan

Dear Mr. Begell and Ms. Osmena

This message is to encourage you to include the restoration of the Los Angeles County Arboretum's Baldwin Lake as a part of the Enhanced Watershed Management Plan for the Rio Hondo Watershed. To me, the following points emphasize the importance of this lake:

- It is one of the very few lakes easily accessible to the public in the San Gabriel Valley area, or even the Los Angeles basin
- It is an important environmental asset to the wildlife that is in or passes through the San Gabriel Valley
- It has historical significance regarding E.J. Baldwin's life as the founder of the city of Arcadia
- It has historical significance pertaining to the entertainment industry as a movie and TV location, and consequently is a tourist attraction
- It is geologically important and interesting as the last (I think) remaining sag pond along the Raymond earthquake fault

I encourage you to support restoring and including the lake in whatever watershed management plans evolve.

Regards,

Dale Carter
Arboretum volunteer and docent



Edmund G. Brown Jr.
Governor

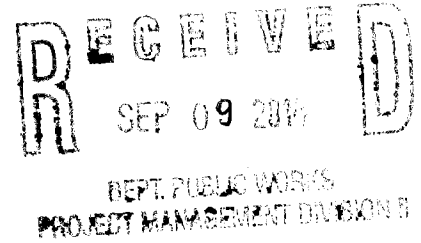
STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

Notice of Preparation

August 29, 2014



To: Reviewing Agencies

Re: Enhanced Watershed Management Programs (EWMP) Program EIR
SCH# 2014081106

Attached for your review and comment is the Notice of Preparation (NOP) for the Enhanced Watershed Management Programs (EWMP) Program EIR draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Gregg BeGell
Los Angeles County Flood Control District
900 South Fremont Avenue, 11th Floor
Alhambra, CA 91803

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Attachments
cc: Lead Agency

**Document Details Report
State Clearinghouse Data Base**

SCH# 2014081106
Project Title Enhanced Watershed Management Programs (EWMP) Program EIR
Lead Agency Los Angeles County Flood Control District

Type **NOP** Notice of Preparation

Description The development of the EWMP will involve the evaluation and selection of multiple watershed control measures or best management practices (BMP) types including non-structural and distributed, centralized and regional structural BMPs. These BMPs will be implemented to meet compliance goals and strategies under the 2014 MS4 Permit. Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage. These are three categories of structural BMPs, defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit.

Lead Agency Contact

Name Gregg BeGell
Agency Los Angeles County Flood Control District
Phone 626 300 3298 **Fax**
email
Address 900 South Fremont Avenue, 11th Floor
City Alhambra **State** CA **Zip** 91803

Project Location

County Los Angeles
City Los Angeles, City of
Region
Cross Streets Throughout Los Angeles County
Lat / Long
Parcel No. Various
Township **Range** **Section** **Base**

Proximity to:

Highways Various
Airports LAX, Burbank
Railways Various
Waterways Various
Schools Various
Land Use Various land uses throughout the County

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Flood Plain/Flooding; Geologic/Seismic; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Soil Erosion/Compaction/Grading; Toxic/Hazardous; Traffic/Circulation; Water Quality; Vegetation; Water Supply; Wetland/Riparian; Wildlife; Cumulative Effects; Other Issues

Reviewing Agencies Resources Agency; Coachella Valley Mountains Conservancy; Department of Parks and Recreation; Department of Water Resources; Department of Fish and Wildlife, Headquarters; Department of Fish and Wildlife, Marine Region; Native American Heritage Commission; Santa Monica Bay Restoration; Caltrans, District 7; Air Resources Board; State Water Resources Control Board, Division of Water Quality; State Water Resources Control Board, Division of Water Rights; Regional Water Quality Control Board, Region 4; San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy; Santa Monica Mountains Conservancy

Date Received 08/29/2014 **Start of Review** 08/29/2014 **End of Review** 09/29/2014

| | | | | |
|--|---|--|---|--|
| <input checked="" type="checkbox"/> <u>Resources Agency</u> Nadell Gayou | <input type="checkbox"/> Fish & Wildlife Region 1E Laurie Hainsberger | <input type="checkbox"/> Native American Heritage Comm. Debbie Treadway | <input type="checkbox"/> Caltrans, District 8 Dan Kopulsky | <input type="checkbox"/> Regional Water Quality Control Board (RWQCB) |
| <input type="checkbox"/> Dept. of Boating & Waterways Nicole Wong | <input type="checkbox"/> Fish & Wildlife Region 2 Jeff Drongesen | <input type="checkbox"/> Public Utilities Commission Leo Wong | <input type="checkbox"/> Caltrans, District 9 Gayle Rosander | <input type="checkbox"/> RWQCB 1 Cathleen Hudson |
| <input checked="" type="checkbox"/> California Coastal Commission Elizabeth A. Fuchs | <input type="checkbox"/> Fish & Wildlife Region 3 Charles Armor | <input checked="" type="checkbox"/> Santa Monica Bay Restoration Guangyu Wang | <input type="checkbox"/> Caltrans, District 10 Tom Dumas | <input type="checkbox"/> RWQCB 2 Environmental Document Coordinator |
| <input type="checkbox"/> Colorado River Board Lisa Johansen | <input type="checkbox"/> Fish & Wildlife Region 4 Julie Vance | <input type="checkbox"/> State Lands Commission Jennifer Deleong | <input type="checkbox"/> Caltrans, District 11 Jacob Armstrong | <input type="checkbox"/> RWQCB 3 San Francisco Bay Region (2) |
| <input type="checkbox"/> Dept. of Conservation Elizabeth Carpenter | <input type="checkbox"/> Fish & Wildlife Region 5 Leslie Newton-Reed Habitat Conservation Program | <input type="checkbox"/> Tahoe Regional Planning Agency (TRPA) Cherry Jacques | <input type="checkbox"/> Caltrans, District 12 Maureen El Harake | <input type="checkbox"/> RWQCB 4 Central Coast Region (3) |
| <input type="checkbox"/> California Energy Commission Eric Knight | <input type="checkbox"/> Fish & Wildlife Region 6 Tiffany Ellis Habitat Conservation Program | <u>Business, Trans & Housing</u> | <input type="checkbox"/> RWQCB 5 Central Valley Region (5) | <input type="checkbox"/> RWQCB 5F Central Valley Region (5) Fresno Branch Office |
| <input type="checkbox"/> Cal Fire Dan Foster | <input type="checkbox"/> Fish & Wildlife Region 6 I/M Heidi Sickler Inyo/Mono, Habitat Conservation Program | <input type="checkbox"/> Caltrans - Division of Aeronautics Philip Crimmins | <input type="checkbox"/> RWQCB 5R Central Valley Region (5) Redding Branch Office | <input type="checkbox"/> RWQCB 6 Lahontan Region (6) |
| <input type="checkbox"/> Central Valley Flood Protection Board James Herota | <input checked="" type="checkbox"/> Dept. of Fish & Wildlife M George Isaac Marine Region | <input type="checkbox"/> Caltrans - Planning Terri Pencovic | <input type="checkbox"/> RWQCB 6V Lahontan Region (6) Victorville Branch Office | <input type="checkbox"/> RWQCB 7 Colorado River Basin Region (7) |
| <input type="checkbox"/> Office of Historic Preservation Ron Parsons | <u>Other Departments</u> | <input type="checkbox"/> California Highway Patrol Suzann Ikeuchi Office of Special Projects | <input type="checkbox"/> RWQCB 8 Santa Ana Region (8) | <input type="checkbox"/> RWQCB 9 San Diego Region (9) |
| <input type="checkbox"/> Dept of Parks & Recreation Environmental Stewardship Section | <input type="checkbox"/> Food & Agriculture Sandra Schubert Dept. of Food and Agriculture | <input type="checkbox"/> Housing & Community Development CEQA Coordinator Housing Policy Division | <input type="checkbox"/> RWQCB 8 Santa Ana Region (8) | |
| <input type="checkbox"/> California Department of Resources, Recycling & Recovery Sue O'Leary | <input type="checkbox"/> Dept. of General Services Public School Construction | <input type="checkbox"/> Air Resources Board All Other Projects Cathi Slaminski | <input type="checkbox"/> RWQCB 9 San Diego Region (9) | |
| <input type="checkbox"/> S.F. Bay Conservation & Dev't Comm. Steve McAdam | <input type="checkbox"/> Dept. of General Services Anna Garbeff Environmental Services Section | <input type="checkbox"/> Transportation Projects Nesamani Kalandiyur | | |
| <input checked="" type="checkbox"/> Dept. of Water Resources Agency Nadell Gayou | <input type="checkbox"/> Delta Stewardship Council Kevan Samsan | <input type="checkbox"/> Industrial Projects Mike Tollstrup | | |
| <u>Fish and Game</u> | <u>Independent Commissions/Boards</u> | <input type="checkbox"/> State Water Resources Control Board Regional Programs Unit Division of Financial Assistance | | |
| <input checked="" type="checkbox"/> Dept. of Fish & Wildlife Scott Flint Environmental Services Division | <input type="checkbox"/> Delta Protection Commission Michael Machado | <input type="checkbox"/> State Water Resources Control Board Jeffery Werth Division of Drinking Water | | |
| <input type="checkbox"/> Fish & Wildlife Region 1 Donald Koch | <input type="checkbox"/> OES (Office of Emergency Services) Dennis Castrillo | <input checked="" type="checkbox"/> State Water Resources Control Board Student Intern, 401 Water Quality Certification Unit Division of Water Quality | | |
| | | <input type="checkbox"/> State Water Resources Control Board Phil Crader Division of Water Rights | | |
| | | <input type="checkbox"/> Dept. of Toxic Substances Control CEQA Tracking Center | | |
| | | <input type="checkbox"/> Department of Pesticide Regulation CEQA Coordinator | | |
| | | <input type="checkbox"/> Other AND LA RIVER CONSERVATION SANTA ANA MTR Conservancy | | |

ELIZABETH BYRNE DEBREU

777 Arden Road
Pasadena, California 91106

October 8, 2014

Mr. Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803

Via Email: gbegell@dpw.lacounty.gov

Re: Restoration of Baldwin Lake

Dear Mr. BeGell:

I write to urge you to make the restoration of Baldwin Lake a high priority as you lead the effort to create the EWMP for the Rio Hondo Watershed.

The restoration of Baldwin Lake, including modifications to the depth of the lake and adaptation of Tule Pond as a bioswale, would enhance Baldwin Lake's water quality and give it a more significant water collection function while simultaneously enhancing its scenic, educational, and historic value at the center of the Los Angeles County Arboretum and Botanic Garden.

The restored lake would also provide an exceptional opportunity to educate the public about regional water management, home and community water conservation, and the role of the Raymond Basin and the other water resources in sustaining us. It is a key resource that serves over 330,000 visitors per year, including more than 16,000 elementary school students on field trips.

As a member of the board of the Los Angeles Arboretum Foundation, the County's non-profit partner in operating the Arboretum, I stand ready to help leverage public dollars to realize Baldwin Lake's unique potential to provide direct public benefit in a multitude of ways. It is the ideal project both to enhance the watershed function and serve the public with remarkable educational, ecological, and scenic benefits.

I respectfully submit that the County include the Baldwin Lake in the Rio Hondo Enhanced Watershed Management Plan.

Very truly yours,

Elizabeth Byrne Debreu
Board Member, Los Angeles Arboretum Foundation

Laura Rocha

From: Osmena, Genevieve <gosmena@dpw.lacounty.gov>
Sent: Monday, November 10, 2014 10:03 AM
To: Dale or Miriam Carter
Subject: RE: Baldwin Lake/Enhanced Watershed Management Plan

Mr. Carter,

Thank you for your email regarding Baldwin Lake at the LA Arboretum. I have added your contact information to the stakeholder list for the Rio Hondo/San Gabriel River Water Quality Group to receive notifications of future stakeholder meetings regarding the group's Enhanced Watershed Management Program (EWMP). We anticipate the next stakeholder meeting to occur in early to mid-Spring of next year to discuss the progress of the EWMP process with interested stakeholders. I have also forwarded your email to the group members for their consideration as they continue to discuss and develop their EWMP plan.

Thanks again for your comments.

Genevieve Osmeña, P.E.

*County of Los Angeles Department of Public Works
East Unincorporated County MS4 Permit Compliance
Watershed Management Division
(626) 458-3978
gosmena@dpw.lacounty.gov*

From: Dale or Miriam Carter [<mailto:dmcart@att.net>]
Sent: Wednesday, October 29, 2014 5:01 PM
To: Begell, Gregg - Consultant; Osmena, Genevieve
Cc: Snider Sandy; Schulhof Richard
Subject: Baldwin Lake/Enhanced Watershed Management Plan

Dear Mr. Begell and Ms. Osmena

This message is to encourage you to include the restoration of the Los Angeles County Arboretum's Baldwin Lake as a part of the Enhanced Watershed Management Plan for the Rio Hondo Watershed. To me, the following points emphasize the importance of this lake:

- It is one of the very few lakes easily accessible to the public in the San Gabriel Valley area, or even the Los Angeles basin
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- It has historical significance pertaining to the entertainment industry as a movie and TV location, and consequently is a tourist attraction
- It is geologically important and interesting as the last (I think) remaining sag pond along the Raymond earthquake fault

I encourage you to support restoring and including the lake in whatever watershed management plans evolve.

Regards,

Dale Carter
Arboretum volunteer and docent

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Monday, September 29, 2014 4:32 PM
To: Crumpacker, Andrea; David Pohl; Tom Barnes
Subject: FW: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

A clone of Rex's comment.

Gregg BeGell P E

Project Manager

Project Management Division II

From: Donna Murray [<mailto:dlmurray47@gmail.com>]
Sent: Monday, September 29, 2014 4:28 PM
To: Begell, Gregg - Consultant
Subject: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

In 2006, L.A. City proposed its first big plan under this agreement, an Implementation Plan for the Santa Monica Bay Beaches watersheds. This plan was sent back for redrafting by the RWQCB as it only reached 2% of its target and thus, would not accomplish the goal in the consent decree.

Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

In 2012, the County Supervisors tried to quietly approve a \$300 million per year property tax hike to build a non-existent list of runoff cleansing and capturing projects. Howls of opposition arose and that plan went nowhere. The public wanted to know what they were paying for.

Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary parts, yet deferring analysis and the controversy to a multitude of separate EIRs and CEQA documents and public hearings, all the while public input is diffused. We never get to weigh in on whether we like the complete plan because the Program EIR has no specifics to arouse concern and the real project discussion is delayed until much later in a way that requires massive efforts by the public to keep track of the success of the big plan.

The people who will pay for this plan want to see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you produce an EIR, not the other way around.

Please put me on the notification list for all actions relating to this project. Thank you.

Donna Murray
8734 Wiley Post Av
Los Angeles, CA 90045

[Why this ad?](#) Ads –

DEPARTMENT OF TRANSPORTATION
DISTRICT 7-OFFICE OF TRANSPORTATION PLANNING
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-9140
FAX (213) 897-1337
www.dot.ca.gov



*Serious drought.
Help save water!*

September 29, 2014

Mr. Gregg BeGell
County of Los Angeles Dept. of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803

Re: Enhanced Watershed Management Programs
Notice of Preparation
IGR#140912FL
Vic.: LA/Various watersheds locations

Dear Mr. BeGell:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project will prepare a Program Environmental Impact Report (PEIR) for the project identified, such as the 12 separate Enhanced Watershed Management Programs (EWMPs); it will be prepared as a collective effort among the Los Angeles County Flood Control District (LACFCD) and the applicable agencies in each respective EWMP.

We would like to remind you that storm water run-off is a sensitive issue for Los Angeles and Ventura counties. Please be mindful that projects need to be designed to discharge clean run-off water.

Any work to be performed within the State Right-of-way will need an Encroachment Permit and any transportation of heavy construction equipment and/or materials which requires the use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. We recommend that large size truck trips be limited to off-peak commute periods. In addition, a truck/traffic construction management plan is needed for this project.

If you have any questions, please feel free to contact me at (213) 897-9140 or project coordinator Frances Lee at (213) 897-0673 or electronically at frances.lee@dot.ca.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Dianna Watson".

DIANNA WATSON
Branch Chief, Community Planning & LD IGR Review

cc: Scott Morgan, State Clearinghouse

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Tuesday, September 30, 2014 7:08 AM
To: Crumpacker, Andrea; David Pohl; Bellizia, Thomas W.
Subject: FW: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR EWMP'S FOR L.A. COUNTY

Another clone

Gregg BeGell P E
Project Manager
Project Management Division II

From: douglaspfay@aol.com [<mailto:douglaspfay@aol.com>]
Sent: Monday, September 29, 2014 9:19 PM
To: Begell, Gregg - Consultant
Cc: rexfrankel@yahoo.com
Subject: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR EWMP'S FOR L.A. COUNTY

Dear DWP Representatives and Interested Parties,

I understand why no one but Rex Frankel attended the NOP hearing on September 9th in Marina Del Rey. You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

In 2006, L.A. City proposed its first big plan under this agreement, an Implementation Plan for the Santa Monica Bay Beaches watersheds. This plan was sent back for redrafting by the RWQCB as it only reached 2% of its target and thus, would not accomplish the goal in the consent decree.

Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

You also were to include identifying a location(s) adjacent to the Oxford Lagoon Bird Conservation Area where a water treatment and recycling facility could be located. This was intended to be a mandatory component of the future, now current, Oxford Basin Multiuse Enhancement Project. The City of Los Angeles Thatcher Maintenance Yard is an ideal location for a facility that could serve Marina del Rey and the Oxford Triangle neighborhood. The Oxford Basin Project should not proceed, including Prop 84 funding, until a recycled water component is included as promised.

In 2012, the County Supervisors tried to quietly approve a \$300 million per year property tax hike to build a non-existent list of runoff cleansing and capturing projects. Howls of opposition arose and that plan went nowhere. The public wanted to know what they were paying for.

Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary

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Please put me on the notification list for all actions relating to this project.

Respectfully submitted,

Douglas Fay
644 Ashland Ave Apt A
Santa Monica, CA 90405
email: douglasfay@aol.com

October 16, 2014

Enrique Huerta
At-Large Stakeholder
7345 Nada Street
Downey, CA 90242
ehuerta28@gmail.com
(323) 573-0129

Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont Avenue, 5th Floor
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RE: Public Comments: Notice of Preparation of a Draft Program Environmental Impact Report for Enhanced Watershed Management Programs

Dear Mr. BeGell:

Thank you for your efforts on the Notice of Preparation (NOP) for the Draft Program Environmental Impact Report for the Enhanced Watershed Management Programs (EWMP). I am confident your work will result in an informative and precise first tier final Program Environmental Report (PEIR) that is adequate, complete, and a good faith effort at full disclosure. The purpose of my comments, per Section 15168(c)(5) of the 2014 California Environmental Quality Act (CEQA) Statute and Guidelines, is to assist in the creation of a PEIR “that deals with the effects of the program as specifically and comprehensively as possible.” Additionally, I realize that by doing “a good and detailed analysis of the program, many subsequent activities could be found to be within the scope of the project described in the program EIR, and no further environmental documents would be required.”

I recognize and appreciate the herculean task involved for the Flood Control District and it is my sincere attempt to keep my comments relevant to the NOP. As such, I have attempted to draft my comments in a reader-friendly manner that identify the issue and propose a feasible solution(s). My comments only address the content of the NOP.

COMMENTS ON THE CONTENT OF THE NOP

1. Introduction

(Page No. 2) Please elaborate on the approval process. It would be informative if the role between the Los Angeles County Flood Control District (LACFCD) and the Los Angeles Regional Water Quality Control Board (LARWQCB) is further explained. The introduction does a good job explaining the steps involved in the EWMP process, but lacks clarity on the connection between the PEIR and LARWQCB. In particular, the sentence in mind states, “The LARWQCB is responsible for approval of the EWMPs in compliance with the MS4 Permit. Implementation of the EMWPs would occur following approval by the LARWQCB.”

If the LARWQCB approves the EWMPs then who adopts the final PEIR? How does this PEIR fit into the responsibilities and mandates of the LARWQCB? All 12 of the EWMPs specify a date when the final EWMPs will be submitted (June 2015) to the LARWQCB, but no mention is made about the PEIR. Will the Lead Agency submit a EWMP packet on behalf of all 12 EWMPs and will the PEIR be a part of that packet? In addition, the NOI submitted to the LARWQCB by each Watershed Management Group (WVG) span two programs: the EWMPs ‘and’ Coordinated Integrated Monitoring Programs (CIMP). Does this PEIR also analyze the CIMP?

(Page 5) The opening paragraph states that “The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach.” However, a review of all 12 EWMPs indicates that there was no cost/benefit analysis completed to substantiate the “cost-effectiveness” of these methods. Please identify any additional documentation supporting this claim.

(Page No. 5) Please clarify the use of the term “project.” The final sentence in the first paragraph states, “The EWMPs will also evaluate multi-benefit regional projects that will retain (through infiltration or capture and reuse) the stormwater quality design volume (85th percentile storm for 24 hours) for the runoff from the contributing drainage area.” Evaluating, I’m assuming site-level projects with regional benefits, at the PEIR level increases the dissonance between the goal of an EIR, as Section 21002.1(d) of the CEQA Statute states, “to consider the effects, both individual and collective, of all activities involved in a project,” and the inherent collective geographic scope of the PEIR. I reviewed all 12 of the EWMPs and CIMP. All 12 of the EWMPs do not identify projects currently in the works and no analysis is provided. The EWMPs seem to be evaluating plans and policies. Clarification of the term project would be beneficial in order to clearly understand the scope of this PEIR.

In addition, Section 21003 states that, “All persons and public agencies involved in the environmental review process be responsible for carrying out the process in the most efficient, expeditious manner in order to conserve the available financial, governmental, physical, and social resources with the objective that those resources may be better applied toward the mitigation of actual significant effects on the environment.” In an effort to avoid the possibility of imposing an unfunded mandate on local cities and/or non-profit groups to undertake the second tier of this PEIR, the prudent use of public funds, and to promote a second tier CEQA process that is streamlined, I feel it would be beneficial to incorporate an analysis of current projects in the “pipeline.”

This is critical because a review of the Greater Los Angeles County Integrated Regional Water Management (IRWM) database reveals over 190 water resources projects with regionally-significant benefits in the pipeline (Appendix A). The IRWM is a funding mechanism that encourages regional and local collaboration in the design of sustainable water resources

infrastructure. To date, regional agencies, cities, non-profits and community representative groups, have collaborated and submitted project proposals of regional significance. Not all of these projects incorporate BMPs, per say (many do), and many have already been deemed categorically exempt. Additional vetting would need to take place in order to identify projects in-line with a low impact development ideal to collaborate and integrate compliance strategies that are based on a multi-pollutant approach with a focus on green infrastructure that maximize the retention and use of urban runoff as a resource for recharging aquifers and for irrigation and other uses.

If this nexus to analyze the impacts of regional projects is deemed reasonably feasible, further vetting of the projects would be required to understand their CEQA status. The question is who conducts this analysis, the LACFCD or the WMGs? This is important to figure out since Section 15152(b) of the CEQA Statute and Guidelines states that, "Tiering does not excuse the lead agency from adequately analyzing reasonably foreseeable significant environmental effects of the project and does not justify deferring such analysis to a later tier EIR or negative declaration."

(Page 5) The second paragraph states, "The PEIR will provide a program-level assessment of the overall permit compliance effort, focusing particularly on the structural watershed control measures proposed in each of the 12 EWMP areas." The project list on Appendix A identifies projects aiming to implement watershed control measures throughout Los Angeles County. Many of these projects are categorically exempt, have concluded their own environmental assessment or already constructed, however, the database (L.A. County Water Plan) where I retrieved these does not clearly indicate this information. Furthermore, none of the 12 EWMPs under consideration undertook this task to see how the proposed physical changes within their EWMP may or may not comply with the goals and objectives of their

respective plans and policies. In an effort to, as Section 15152© describes, “avoid deferring the potential significant impacts to the second tier and possibly preventing the adequate identification of significant effects of the planning approval at hand,” it may be worthwhile to include this list in the PEIR analysis or have the WMGs revise their draft plans to incorporate this analysis.

1.1 Project Location

The description of the location could be augmented by elaborating on the environmental context. That is, adding maps identifying the tributaries, rivers, channels, etc. within the 12 watersheds could increase understanding of the local watershed functional characteristics. This detailed information is contained in most of the individual EWMPs. A reference to the website location of each respective EWMP could suffice.

Additionally, there is no reference to the types of soils that underlie the 12 EWMPs. The EWMPs provide a summary of these soil characteristics. A reference to the website location of each respective EWMP would be helpful. It is important to know the soil types and their respective infiltration rates in order to understand the feasibility of implementing certain structural BMPs. I realize that this may be covered in more depth under the Geology, Soils and Seismicity category, but there is no clear reference in the accompanying summary.

2. BACKGROUND

2.1 Stormwater/Water Quality

(Page 7) The first paragraph states, “Discharges may adversely affect receiving surface water quality with pollutants such as bacteria, nutrients (nitrogen and phosphorus), aluminum, copper, lead, zinc, diazinon, and cyanide. Aquatic toxicity, particularly during wet weather, is

also a concern. Stormwater and non-stormwater discharges of debris and trash are also a pervasive water quality problem in the Los Angeles region.” It would be beneficial to add the types of pollution stemming from the natural environment (non-anthropogenic), too. What kind of pollutants exists in the soils being eroded from natural settings and vacant parcels of land?

2.2 Total Maximum Daily Loads

The final sentence in this paragraph states, “LARWQCB and United States Environmental Protection Agency (USEPA) have established 33 TMDLs that identify Los Angeles County MS4 discharges as one of the pollutant sources causing or contributing to these water quality impairments.” Please elaborate on the NPDES permit process. Is there a need for discretionary approval of the EWMPs or PEIR by the USEPA? Is there a need for the USEPA to issue a TMDL or other permit? If so, is there a need to do a concurrent Environmental Impact Statement?

2.3 MS4 Permit

(Page 8) This section states. “The intent of the EWMP is to comprehensively evaluate opportunities, within the participating Permittees’ collective jurisdictional boundaries, for collaboration among Permittees and other partners on multi-benefit regional projects that, wherever feasible, retain non-stormwater runoff and also address flood control and/or water supply.” Has the United States Army Corp of Engineers (USACE) been a part of these collaborative efforts? Are any of their existing infrastructure being directly or indirectly impacted by the EWMPs? Is there a need for discretionary approval of the EWMPs or PEIR by the USACE? Is there a need for the USACE to issue a permit related to the EWMPs? If so, is there a need to do a concurrent Environmental Impact Statement?

3. Enhanced Watershed Management Plans

As mentioned in the first comment under the Introduction heading, please elaborate on the approval process. Specifically, how the PEIR fits into the LARWQCBs approval of the EWMPs.

4.1.1 Regional Structural BMPs

The second paragraph states, “Opportunities for Regional BMPs will be identified and evaluated within and across subwatersheds, with focus on the multi-benefit potential for capture and reuse of wet-weather flows within variable drainage areas.” What method and level of detail will be used to identify and evaluate BMPs? This paragraph goes on to state that, “Potential project locations may include areas with open spaces, whether they are within parks, large parking lots, or vacant spaces,” indicating that a geographically site-specific analysis is appropriate under this PEIR. Collectively, there is over 190 regional projects identified in Appendix A being proposed by the various members of the WMGs. Based on the site-specific potential project locations stated above, is it feasible to include an analysis of the project list (Appendix A)?

5 Potential Environmental Impacts

This section (nor the LACoH2Osheds website) does not reference the completion of an Initial Study per Section 15063©(1). How did the Lead Agency identify the effects determined not to be significant? Is there an explanation of the reasons for determining that potentially significant effects would not be significant?

Sincerely,

Enrique Huerta, M.S.

Appendix A
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| | Project Name | Project Proponent | Project Description |
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| 1 | <u>25 mgd Sea Water Desalination Plant in West Basin</u> | West Basin Municipal Water District | The project proposes to construct a 25mgd Seawater Desalination Plant in West Basin's service area for potable water use. First, a Demonstration Plant will be necessary to evaluate the water quality performance and treatment stability, assess efficient energy recovery devices, optimize operational performance utilizing full scale process equipment, and to acquire the necessary data to achieve regulatory compliance and approval. West Basin and its partners will perform the full battery of water quality analyses to ensure that the demonstration project meets all Federal and State Drinking Water Standards. With the knowledge gained by operating the Demonstration Plant, West Basin expects to move forward with the planning, design, and construction of a full scale 25,000 AFY seawater desalination and education facility. West Basin anticipates operating the Demonstration Plant for at least two years while plans are being completed and finalized for the full-scale plant. The Demonstration Facility is in design. |
| 2 | <u>AMR Conversion Project</u> | Los Angeles County Waterworks District No. 29 | The project consists of replacing the older water meters in Waterworks District No. 29. The District maintains approximately 7,700 water meters in Malibu and Topanga. About 40 percent of the meters are older than 15 years and 30 percent are 20 years or older. Meters lose accuracy over time, representing unaccounted water consumption in the District. Older meters typically under-measure water use. Replacing old water meters with automated meter reading (AMR) meters will yield timely, reliable water consumption patterns for detecting leaks and producing accurate customer bills. Higher bills with higher water use volumes will alert District customers about their water consumption habits, which is expected to encourage conservation. The current practice is to replace meters as the meters stop functioning or become unreadable. About 20% of the water meters in Malibu and Topanga have been replaced with AMR meters. |
| 3 | <u>Agoura Road Gap Recycled Water System Expansion</u> | Las Virgenes Municipal Water District | The project would extend the existing recycled water line along Agoura Road to serve existing customers who use potable water for landscape irrigation. Pipeline for this project is estimated at 9250 feet of 8 inch pipe and would connect to existing recycled water pipelines on both east and west sides of the extension. This would connect the gap that exists between Reyes Adobe Road and Lewis Road and improve the system hydraulics and reliability of service to customers. The estimated maximum daily demand for the Agoura Road Extension is 73 gpm. |

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| <p>4</p> | <p><u>Agua Amarga Lunada Canyon Habitat Restoration</u></p> | <p>Palos Verdes Peninsula Land Conservancy & City of Rancho Palos Verdes</p> | <p>Restore 20 acres at Agua Amarga Reserve, to provide habitat for the Federally threatened Coastal California gnatcatcher, the Federally endangered Palos Verdes blue butterfly, and the rare cactus wren. A one-mile trail in the Reserve continues to the coast. A year-round flow of water is discharged to the head of Lunada Canyon via a County of Los Angeles storm drain; the water then flows below ground through the canyon, the course of an historic blue line stream, and re-emerges at its confluence with Agua Amarga Canyon, also a blue-line stream that flows into the Santa Monica Bay. Invasive plant species provide little water infiltration and threaten to spread to the pristine lower canyon. The project will remove invasive plants, restore 18 acres of riparian and coastal sage scrub; install 2 acres of cactus scrub in highly degraded fuel modification areas; improve trails and add trail signage. Interpretive signage will educate hikers about creating wildlife-friendly fuel modification zone.</p> |
| <p>5</p> | <p><u>Aliso Creek - Limekiln Creek Restoration Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>Stormwater runoff would be diverted from Aliso Creek and from Limekiln Creek and stormwater runoff generated on site will be treated. In addition to providing water quality benefits, the project will result in the creation of self-sustaining riparian woodland vegetation and other re-vegetated areas, as well as providing recreational opportunities to area residents. The site has an area of approx. 11.8 acres and is currently used as a flood control facility, provides open space, and serves as part of Vanalden Park. Wet weather runoff and dry weather runoff from an approx. 12,091 acres that drains to the confluence of Aliso Creek and Limekiln Creek is going to be captured and conveyed to the project site for treatment. On-site generated flows will also be captured and treated. Proposed BMPs to treat captured water: Low flow channel diversions and pumping; Pre-screening devices, Bioswales, Vegetated detention basins, Landscaping with native upland and riparian species and Installing decomposed granite pathways.</p> |
| <p>6</p> | <p><u>Alondra Regional Park</u></p> | <p>Successor Agency, City of Compton</p> | <p>Alondra Regional Park is a multi-benefit project that serves disadvantaged communities while meeting IRWMP water management objectives. The entire site is currently an empty 18-acre lot owned by the City of Compton. This proposal is for Phase I of the project and covers 12 acres on the southern half of the parcel. The park provides recreational opportunities while improving surface water discharges into the Dominguez Channel Watershed. The project site sits on the drainage area and will capture 1.5AF of stormwater. The park features a swale and daylighted stream to remove nutrients and pollutants that otherwise flow to local waterways. The large biofiltration field will reduce peak flows, improve water quality and occasionally serve as a recreational field. Surface water quality improvements would help the region meet requirements under the Municipal Separate Storm Sewer System Permit. The project also includes native shrubs and trees that will increase habitat for birds, butterfly species and mammals.</p> |

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| 7 | <u>Alternative Decker Canyon Recycled Water Extension</u> | Las Virgenes Municipal Water District | As with the original Decker Canyon Recycled Water Extension pipeline route, this alternate would primarily serve the Malibu Golf Club, the largest potable water user in the LVMWD service area. The 2007 Master Plan advocated that serving the golf course with recycled water could be an important strategy for relieving eventual stress on the potable system. The longer alternative route used in this project would also serve other demands along the way. In addition to the golf club, significant recycled water demands are expected to come from a new development (Triangle Ranch) and conversion of the existing Medea Valley ranchettes to recycled water use. The project is projected to deliver 459 AF/Y of recycled water, offsetting the same amount of potable demand that would occur if the extension were not built. |
| 8 | <u>Andrews Park Subsurface Storage, Use and Infiltration Project</u> | City of Redondo Beach | The project will consist of a diversion, conveyance pipes, a gross solids removal device (GSRD), an irrigation storage tank, and an infiltration gallery. Dry- and wet-weather flows will be diverted from the existing storm drain up to the maximum diversion flow rate and will then enter the storage tank through the conveyance pipe and GSRD. Once the storage tank reaches a depth of 1.5 feet, flows will be pumped to be used for onsite subsurface irrigation. When the storage volume of the irrigation tank reaches capacity, runoff will flow via an overflow pipe into the infiltration gallery, where the water will infiltrate subsurface soils. When continual flows fill the infiltration gallery and irrigation storage vault to storage capacity, diverted flows will back-up through the diversion piping and prevent additional flow diversion until capacity is freed up due to irrigation use and/or infiltration losses. |
| 9 | <u>Arroyo Seco Confluence Gateway</u> | Arroyo Seco Foundation | The Confluence Gateway Greenway Program will restore a 1/3 mile stretch of urban land alongside the Arroyo Seco, in the Arroyo Seco Scenic Byway Corridor, into a riparian greenway and open space park with native landscaping and a bicycle/pedestrian path. Not only would the project embody a first step in enhancing river access and recreation opportunities, it would provide a key link between the planned Los Angeles River greenways at the confluence and the Metro Rail station in the historic Lincoln Heights neighborhood, thus enabling light rail and bicycle access to the Arroyo Seco and the Los Angeles River. Ultimately, the Arroyo Seco greenway is envisioned to extend to South Pasadena, and this initial segment at the confluence would be an important hub in the regional river parkway and bicycle trail network. |

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| <p>10</p> | <p><u>Arroyo Seco North Branch Creek Daylighting</u></p> | <p>Arroyo Seco Foundation</p> | <p>Naturalize north branch storm drain and restore stream through Sycamore Grove Park. Primary Objectives Addressed by the Project: By re-establishing an urban stream, this project addresses water quality, riparian habitat restoration, groundwater recharge, flood management, and public education. The Sycamore Grove Park site is approximately 800 feet long and 400 feet wide. This 8-acre site is located in northeast Los Angeles and situated west of the SR-110 (). This site encompasses Sycamore Grove Park and is bounded by South Avenue 49 to the northeast, the SR-110 to the east, medium density residential uses to the south, and North Figueroa Street to the west. Sycamore Grove Park is a landscaped area consisting of a large lawn, playground, and parking area. The North Branch tributary is contained within a storm drain beneath Sycamore Grove Park.</p> |
| <p>11</p> | <p><u>Baldwin Lake</u></p> | <p>Los Angeles Arboretum Foundation</p> | <p>For centuries the waters of Baldwin Lake have sustained human endeavor. A rich historic site, its role began in the Native America period when springs and marsh, precursors to today's lake, supported nearby habitation. In the late 19th Century, Elias Jackson Baldwin chose the Lake as the center for agriculture and land development that shaped the establishment of the east San Gabriel Valley. Today, as the centerpiece of the Los Angeles County Arboretum, the Lake is an educational and scenic resource serving hundreds of thousands of visitors. Looking to the future, Baldwin Lake is envisioned as a model for community-based environmental stewardship and regional approaches to water management and conservation. Ideally located at the edge of the Raymond Basin aquifer, the Lake offers great potential as the nexus for water management and ground water recharge for the Arboretum's 127 acres, as well as the surrounding urban watershed. Educational programming that interprets the history of the Lake, particul</p> |
| <p>12</p> | <p><u>Ballona Creek Water Quality and Beach Improvement & Beneficial Use Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>Project is to implement the valuable uses of stormwater and to improve the water quality in Ballona Creek Watershed. Ballona Creek Low Flow Treatment Facility (LFTF), also known as North Outfall Treatment Facility (NOTF), is one of several projects proposed in Ballona Creek TMDL Implementation Plans for Bacteria, Metals, and Toxic Pollutants. The LFTF includes a 1 million gallon storage facility and has the capacity to treat up to 150 cfs, including screening of coarse, fine sediments, and disinfection with sodium hypochlorite. NOTF was constructed in 1987 by City of Los Angeles. The project proposes to use the existing treatment facility and construct a low-flow diversion structure in Ballona Creek Channel to divert and treat full dry-weather flow and partial wet-weather flow. 65 percent of Ballona Creek Watershed (85 square miles) is located upstream of the Project, with average dry-weather flows ranging from 14 to 25 cfs. Treatment will include coarse screens, sedimentation, filtration, and disinfection.</p> |

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| 13 | <u>Be A Water Saver Water Conservation Program</u> | City of Burbank Water and Power | <p>The City of Burbank proposes to expand and increase water conservation through the expansion of a comprehensive indoor/outdoor financial incentive program that will result in immediate and sustainable water savings. The proposed Rebate Program to install 1,300 HE toilets, replace 300,000 square feet of turf with native landscapes, capture and reuse rain water 3 million gallons of rain water with rain barrels, and increase water conservation education efforts will save an estimated 500 AF of water annually. Grant funding for the proposed project will facilitate greater water savings by providing funding for greater levels of participation sooner than would be realized under typical funding efforts. Furthermore, these benefits will be realized faster by utilizing a proven system for conservation, a truly ready to proceed project. This project has the potential to double participation levels.</p> |
| 14 | <u>Bette Davis Park Water Recycling Project</u> | LADWP | <p>This project will consist of planning, design, and construction of approximately 4,625 feet of new 8-inch PVC and Ductile Iron recycled water pipeline to extend Glendale's recycled water distribution system from the intersection of Flower St. and Grandview Ave. to Bette Davis Park. Approximately 4,300 feet of pipeline will be installed within Glendale's city right of way. Through an Agreement with the City of Glendale, this project will be designed and constructed by Glendale's contractors and LADWP will reimburse Glendale for the costs. This will reduce the City's potable demand for non-potable uses. This project will offset up to 75 AFY of potable water with recycled water.</p> |
| 15 | <u>Big Dalton Sluiceway Rehabilitation</u> | Los Angeles County Flood Control District | <p>This project will upgrade the sluiceway to function as a low level outlet for regulating flows under high reservoir pressure and repair various facility components for the dam. The existing sluice gate at the upstream end is to be replaced with a new heavy duty hydraulic actuated gate, the sluiceway is to be lined with new pipe for the entire length, and a throttling valve is to be installed at the outlet. Storm releases through the sluiceway will reduce the rate of sediment accumulation and prevent sediment deposits at the face of the dam. Incoming sediments during storm flows could be routed through the reservoir to restore a more natural sediment transport system and maintain reservoir capacity</p> |
| 16 | <u>Big Dalton Spreading Grounds Improvements</u> | Los Angeles County Flood Control District | <p>The proposed project will modify and motorize the diversion box at Big Dalton Spreading Grounds to better control flows taken into the facility. The spreading basins will be reconfigured to increase percolation rates and storage capacity. An intake will be constructed from Little Dalton Diversion Channel so that additional storm flows can be diverted to the facility. A proposed outlet from Metropolitan Water District's PM-26 imported water line to the Little Dalton Diversion channel will enable imported water to be recharged at the spreading grounds.</p> |

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| 17 | <u>Big Rock Bypass</u> | Los Angeles County Waterworks District No. 29 | The project consists of constructing three 18-inch diameter bypass water pipelines approximately 1,500 feet in length within the areas of active landslides along Pacific Coast Highway. This bypass will serve as a permanent replacement of an existing 30-inch diameter water pipeline that has experienced significant breaks resulting in large water loss. The proposed pipeline will be raised to a shallow trench and protected by a reinforced concrete box covered with steel plates to provide quick access if any leakage occurs. In addition, 18-inch Flexible Expansion Joints will also be installed at several locations with the areas of the active landslides to prevent damage or rupture of pipelines from ground movement. |
| 18 | <u>Big Tujunga Dam Spillway Dam</u> | Los Angeles County Flood Control District | Construction of a dam within the spillway at Big Tujunga Dam to increase the maximum storage capacity of the reservoir by approximately 705 acre-feet. |
| 19 | <u>Big Tujunga Reservoir Sediment Removal</u> | Los Angeles County Flood Control District | The 2009 Station Fire was the largest fire in Angeles National Forest recorded history and burned over 160,000 acres before containment on October 16, 2009. Approximately 87% of the watershed tributary to Big Tujunga Reservoir was affected. On average, a watershed will take five years or more to recover from a forest fire burn. During this time, increased amounts of debris production are anticipated from the denuded ground surface. Based on the 2010-11 storm season surveys, the total amount of sediment in the Big Tujunga Reservoir is approximately 2 million cubic yards. The County of Los Angeles Department of Public Works on behalf of the Los Angeles County Flood Control District proposes a sediment removal project to permanently remove up to 4.4 mcy of sediment from Big Tujunga Reservoir. Sediment will be excavated and transported using low emission trucks or conveyor belt to Maple Canyon Sediment Placement Site adjacent to Big Tujunga Dam. The project will be completed over four years starting in the sum |
| 20 | <u>Boulevard Pit Stormwater Capture Project</u> | LADWP | Acquire and develop Boulevard Pit into a multi-use retention and recharge facility to enhance stormwater conservation. |
| 21 | <u>Branford Spreading Basin Cleanout and Pump</u> | Los Angeles County Flood Control District | Branford Spreading Ground has very low percolation rates compared to the Tujunga Spreading Ground directly across the Tujunga Wash Channel. This project will install a pump from Branford Spreading Ground to direct water into the Tujunga Spreading Ground leading to more groundwater recharge. In addition, the project will clean out the clogging layer at the bottom of basin, which will also improve percolation rates. |

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| 22 | <u>Broadway Neighborhood Stormwater Greenway Project</u> | City of Los Angeles Bureau of Sanitation | In partnership with Water Replenishment District of Southern California and its "Regional and Distributed Stormwater Capture Feasibility Study," the proposed project will design and implement stormwater Best Management Practices (BMPs) in the City of Los Angeles with the primary goals of TMDL compliance and stormwater infiltration. Three levels of BMPs will be developed; local parcel based Low Impact Development (LID) for 8 acres (60 residential parcels), neighborhood scale LID for 12 acres (3 residential streets and 2 blocks of commercial streets), and a sub-regional scale facility for 30 acres of mixed land uses. The local and neighborhood BMPs will capture and infiltrate all dry-weather flow and up to the ¼ inch storm. The sub regional BMP will capture up to the 2 inch storm for 30 acres. The sub regional BMP will also receive dry-weather flows from 228 acres of mixed land uses. Designs will be standardized to remote widespread implementation. |
| 23 | <u>Bull Creek Stormwater Capture</u> | Los Angeles County Flood Control District | Historical records show that an annual average of 625 acre-feet of water passes through Bull Creek. All flows from Bull Creek are lost to the ocean via the Los Angeles River. This project proposes conserving the lost water by diverting flows from the new LADWP facility using a rubber dam and conveying flows through a pipeline to Pacoima Spreading Grounds where it would be captured and recharge the local aquifer. |
| 24 | <u>Bull Creek Los Angeles Reservoir Water Quality Improvement Project</u> | LADWP | Plan, design, and construct stormwater conveyance facilities for compliance with the Enhanced Surface Water Treatment Rule. Facilities will be designed according to standards adopted by Department of Water Resources, Division of Safety of Dams. Improvements include widening a portion of the Bull Creek Extension Channel, realigning a section downstream of the widening, construction of a new diversion structure and overflow structure, and improvements to inlet structures. The Los Angeles Reservoir spillway will be removed from service. Proposed design facilitates a future stormwater capture program. |
| 25 | <u>Burbank Partnership Water Recycling Project</u> | LADWP | The Burbank Partnership Water Recycling Project involves the planning, design, and construction of approximately 27,000 feet of recycled water pipelines in the North Hollywood area. The three individual segments that comprise the project are the Chandler Boulevard Bike Path segment, the Whitnall Dog Park segment, and the North Hollywood Park segment. These segments will connect to Burbank's recycled water distribution system at three separate connection points and will be served by recycled water treated at the Burbank Water Reclamation Plant. This project is expected to offset up to 285 AFY of potable water with recycled water. |

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| <p>26</p> | <p><u>Burbank Water and Power Recycled Water System Expansion, Phase 3</u></p> | <p>City of Burbank Water and Power</p> | <p>The third phase of the City of Burbank's recent recycled water system expansion. As a result of previous phases, over 20 miles of recycled water pipelines have been installed resulting in the distribution of over 2,300 AF of recycled water annually; amounting to 13% of the City's water demand by the end of 2014. The City will continue expanding its recycled water distribution to offset potable water use in this phase by constructing two new recycled water pipelines known as, the LA Equestrian Center (LAEC) and the Naomi pipelines. The LAEC is located on the borders of the cities of Burbank and Los Angeles consisting of landscape areas, stables, offices and corrals; the latter requiring dust control with water trucks. The Naomi pipeline would primarily provide recycled water to a very large commercial data center and smaller customers. Completion of these pipelines will increase recycled water distribution by an estimated 61 AFY, resulting in a direct and immediate potable water savings of 61 AF annually.</p> |
| <p>27</p> | <p><u>C Marvin Brewer Desalter Brackish Groundwater Facility Expansion</u></p> | <p>West Basin Municipal Water District</p> | <p>The Desalter currently has the capacity to extract up to 2,000 acre-feet annually of brackish water. In 2003 the old wells at the site were decommissioned and construction began in 2005 for the first replacement well. The facility became operational in 2006 at a reduced capacity using the new well and the original RO unit. The facility has not been operating to its full capacity since it came online again in 2007 because of water quality issues. Funding is also needed to correct the water quality problems in order to get the facility to its full operating capacity. The proposed 500 AFY capacity expansion will allow the facility to become operational at its full capacity of 2,000 acre-feet per year. The site is already owned by California Water Service Co. and leased by West Basin and is developed as a desalting facility. The expansion will include the installation of a new production well, and the addition of an acid pretreatment unit and a reverse osmosis treatment unit on the existing site.</p> |
| <p>28</p> | <p><u>CITYWIDE STORM DRAIN CATCH BASIN CURB SCREENS</u></p> | <p>CITY of CALABASAS</p> | <p>Installation of storm drain catch basin curb screens at all applicable locations citywide. These screens are the stainless variety approved curb by Los Angeles County. The purpose of the curb screens is to stop trash from entering the catch basins which eventually discharge into both the Los Angeles River and Malibu Creek watersheds. By implementing this project, City of Calabasas will be in compliance with the Trash TMDL both for LA River and Malibu Creek watersheds. Based on studies done, reduction in trash and debris loadings will also reduce Bacterial and sediment loading in the watershed. By implementing the project, disadvantaged communities downstream of Calabasas in Los Angeles River will benefit from cleaner water. The scope work consists of measuring all catch basin openings, drafting RFP with detailed specifications, soliciting proposals from the list of Los Angeles County's approved vendors, negotiating contract, implementation/construction, monitoring and reporting.</p> |

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| 29 | <u>Caballero Creek & Los Angeles River Confluence Park</u> | Mountains Recreation and Conservation Authority | <p>The project will convert a 1.55 acre vacant parcel at the confluence of the Los Angeles River and Caballero Creek into a publicly-accessible natural park with habitat restoration, paths, site furnishings, water quality improvements, waterfront-access, and educational amenities. The design utilizes an innovative mixes low-tech mechanical and biological methods to filter and infiltrate storm waters increases regional water quality. The project creates a multi-benefit park that provides ecosystem services as well as cultural services, like recreation and eco-tourism. The project concept was developed in partnership with the City and County of Los Angeles who have committed to retain ownership, maintenance and operation responsibilities while allowing the Mountains Recreation and Conservation Authority (MRCA) to oversee design and construction. Nearby Reseda High School will monitor the project and use it for hands-on learning and community service opportunities.</p> |
| 30 | <u>Camino San Rafael Recycled Water Project</u> | Glendale Water & Power | <p>This project will consist of design and construction of approximately 8300 feet & 6000 feet of new 4"and 8" PVC recycled water pipeline, respectively. The project also consists of installing a two booster stations. This project will extend Glendale's recycled water distribution system to provide recycled water for common area irrigation to the Camino San Rafael Homes. This project will offset up to 90 AFY of potable water with recycled water. This will reduce the City's demand on potable water.</p> |
| 31 | <u>Carson Regional Water Recycling Project</u> | West Basin Municipal Water District | <p>The Carson Regional Water Recycling Expansion Project includes the expansion of the existing recycled water treatment facility and the construction of several laterals. This is a new demand on the system and will require expansion of treatment process capacity and conveyance to include; lateral pipelines, pump stations, treatment units, storage tanks, and waste management facilities. The BP Refinery requires single-pass reverse osmosis treatment units. BP Refinery is estimating a need of 2,100 acre-feet per year (AFY). The project will be further expanded to serve customers within the City of Los Angeles' jurisdiction for the refineries in the port area. The City will need recycled water to satisfy a use of 9,300 AFY. The City is in the preliminary design stage.</p> |

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| <p>32</p> | <p><u>Chase Street Stormwater Greenway</u></p> | <p>City of Los Angeles Bureau of Sanitation, Watershed Protection Division</p> | <p>The Project will provide a street-end interpretive area on Bull Creek at Chase Street, and install a Stormwater Greenway along Chase Street from the eastern street end on the north side right-of-way to Hayvenhurst, and on the north and south right-of-way to Gothic. Vegetated planters in the parkways will capture and infiltrate street runoff, and will provide storm water filtration, and tree shading. The Bull Creek street-end will feature a native landscape as habitat and a recreational rest stop along the channel, and will provide an interpretive site for wildlife selected and supported by the specific native planting used in the project. A channel diversion from Bull Creek, with a pre-filter and lift station, will transfer runoff through a pipeline to a local Sod Farm where it will be used to irrigate up to 30-commercial acres. The project will integrate water conservation goals (LADWP), Storm water objectives (BOS), Economic enhancements to city property (LAWA), & public health and recreation benefits.</p> |
| <p>33</p> | <p><u>Chemical Study - Rio Hondo</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project will install a chemical treatment system at the Rio Hondo Coastal Spreading Grounds to remove sediment fines from the water and improve the percolation rates. A Percolation Optimization Investigation (POI) report was done by Montgomery Watson Harza (MWH) in 2003 to evaluate the County's spreading grounds and the impact of suspended solids on percolation rates. The report made a number of recommendations and the recommendations will be implemented at the Rio Hondo flood control facility. The project will install a coagulant chemical feeder and mixer at the grounds intake. This will allow the silt in the stormwater to coagulate and settle prior the cleaner water to flowing into spreading grounds. When this occurs, the spreading grounds will be able to percolate more water, thus conserving and recharging more groundwater.</p> |
| <p>34</p> | <p><u>Chevy Oaks Recycled Water Project</u></p> | <p>Glendale Water & Power</p> | <p>This project will consist of design and construction of approximately 920 feet, 1900 feet & 2100 feet of new 4", 8" and 12" PVC recycled water pipeline, respectively. The project also consists of installing a small booster station. This project will extend Glendale's recycled water distribution system to provide recycled water for irrigation to the Chevy Oaks Homes. This project will offset up to 30 AFY of potable water with recycled water. This will reduce the City's demand on potable water.</p> |
| <p>35</p> | <p><u>City of Carson Rain Barrel Give Away Phase II</u></p> | <p>City of Carson, Development Services Department, Engineering Services Division</p> | <p>At completion of a prior grant, a modest amount of money remained unused. With the acquiescence of the granting agency, the City of Carson purchased 16 rain barrels and set up a website lottery system in order to award them to residents. The response was overwhelming and with no advertising over 100 contestants were disappointed to not receive a rain barrel. This proposal would lead to the purchase of an additional 1,000 rainbarrels (depending on cost and grant amount) to restock the lottery reserves. Advertising and management of the program would be provided as part of the City of Carson grant match. More information on Fiskar Rain Barrels is available at http://www2.fiskars.com/Products/Yard-and-Garden/Rain-Barrel-Systems</p> |

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| <p>36</p> | <p><u>City of Monrovia Fire Department - Training Center Water Recycling Project</u></p> | <p>Upper San Gabriel Valley Municipal Water District</p> | <p>Upper District in cooperation with the City and Fire Department of Monrovia are submitting this project incorporating both dry and wet weather runoff capture, treatment and storage for the new Regional Training Center. Once collected, the fire training water and the 85th percentile of a 24 hour storm event (as required by the City's MS4 permit) will be treated before being discharged into storage holding tanks which will store the treated water for future reuse by the training facility. The objective is to offset the use of potable water at the facility, eliminate storm water discharge and capture wet-weather storm water runoff. Finally, if the wet-weather event is larger than the 85th percentile, then provisions are being considered to treat as much of the additional wet-weather storm water runoff via a natural infiltration gallery (bioswale) before being discharged into the City's storm water system.</p> |
| <p>37</p> | <p><u>Cogswell Dam Inlet/Outlet Works Rehabilitation Project</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project will consist of refurbishment and upgrades to the outlet works, tunnels, and repair of various facility components at Cogswell Dam. The project will increase operational effectiveness for flood control and water conservation. The project will involve: a complete overhaul of the dam's entire inlet/outlet works; upgrade on the electrical control equipment; repair of downstream facilities; structural repairs on the upstream facing slab; security upgrades; and other various repairs essential for maintaining and operating a flood control facility. The overall project intent is to improve Cogswell Dam for maintaining dam safety, increased efficiency and reliability of flood control operations, and enhancement of water conservation efforts.</p> |
| <p>38</p> | <p><u>Cold Creek Diamond Acquisition</u></p> | <p>Mountains Restoration Trust</p> | <p>The project will acquire 4.87 acres (APN 4455-021-040) of natural undisturbed open space within the existing 1348-acre Cold Creek Preserve in the Santa Monica Mountains National Recreation Area. The acquisition is part of the state-funded Cold Creek Restoration Plan designed to acquire 539.06 acres to protect the wild and scenic, perennial Cold Creek, the habitat linkage between Topanga State Park and Malibu Creek State Park, the values of Los Angeles County's Significant Ecological Area #9, and a future venue for environmental education, research, and recreation. The area includes significant oak, sycamore, and willow communities, supports a range of wildlife including mountain lion, gray fox and raptors. The pure waters once supported the federally-listed endangered southern steelhead trout.</p> |
| <p>39</p> | <p><u>Conservation Budget Based Tiered Rate Structure</u></p> | <p>West Basin Municipal Water District</p> | <p>This project helps our customer agencies to develop a water conservation, budget-based rate structure for their customers. The project is beneficial to West Basin's cities and retail water agencies because it provides a pricing structure that will incentivizes its customers to conserve water. This pricing method has been used in other parts of the State and has been successful at reducing water usage and regarding those who do so with lower rates on their water bill.</p> |

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| 40 | <u>Conversion of 237th Street Sump Tributary to Machado Lakes for Nutrient and Toxics TMDL BMPs</u> | City of Torrance | <p>This project would convert the 237th St. Sump (4.5 acre-feet) into a retention/infiltration basin BMP for Toxics and Nutrient TMDL compliance and provide open spaces for wildlife habitat. This project would install diversion structures that would divert the first 4.5 acre-feet of stormwater from a 71 acre tributary area away from the system tributary to Machado Lake (Wilmington Drain) to be retained and infiltrated in this basin. Trash screens would be installed at the catch basin in the watershed by a separate project. During the dry season the basin would remain an open space for wild life and retain urban run-off and nutrients from 71 acres. By diverting stormwater back into this basin, the City and County storm drain systems would have more capacity during rain events. This project would also increase groundwater recharge.</p> |
| 41 | <u>Creek Crossings Repairs</u> | Los Angeles County Waterworks District No. 29 | <p>This project consists of repairing corroded and deteriorated sections of aboveground pipeline and developing a Corrosion Monitoring, Control, and Maintenance Program. The Waterworks District 29 transmission water pipeline runs along the Pacific Coast Highway in Malibu. The proposed pipeline repairs are located at eight creek crossings attached to bridge structures. The project will significantly prevent future leaks and breaks in the main transmission pipeline which is the primary source of water supply for Malibu and Topanga. The development of a maintenance program is essential to maintaining water supply reliability for the region.</p> |
| 42 | <u>Deauville Distributed Water Reuse Project</u> | City of Santa Monica | <p>The project would harvest stormwater and brackish groundwater for high level treatment and non-potable use around the City, replacing the use of imported potable water. The City would install a 1.3 million gallon storage tank next to the Santa Monica Pier, Deauville lot, to harvest stormwater from the Pier sub-watershed during rain events and brackish groundwater during dry periods. The project would have an optional overflow to an infiltration gallery. A saline extraction well would be installed in sand next to the storage tank. The project would install pre-treatment catch basin inserts in the drainage area or a centralized hydrodynamic separator-screening device to remove trash and debris from stormwater. Modular nanofiltration (NF) and a saltwater reverse osmosis (RO) treatment systems at the site would treat these stored local water resources to high quality for various uses around the City in the existing recycled water system. All concentrated brine by-product would be sent to the sanitary sewer.</p> |
| 43 | <u>Decker Canyon Recycled Water System Extension</u> | Las Virgenes Municipal Water District | <p>The Decker Canyon recycled water pump station, pipeline, and tank would furnish recycled water primarily to Malibu Country Club Golf Course and Tract 47962-Sycamore Canyon Estates near the pump station location and other nearby ranchettes. The project would comprise a high-lift pump station, ~23,000 linear feet of pipeline along Westlake Blvd and Decker Canyon Rd, and a 60-foot diameter concrete tank near the corner of Decker Canyon Rd and Mulholland Hwy. Approximately 229 AF of recycled water per year would be used by this project.</p> |

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| <p>44</p> | <p><u>Del Rey Lagoon Water Quality Improvement Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>The Del Rey Lagoon Water Quality Improvement Project proposes to improve water quality by reducing the source and amount of fecal indicator bacteria in the Del Rey Lagoon and surrounding waterbodies such as the Santa Monica Bay and Dockweiler Beach. Project components include stormdrain systems, vegetated swales, irrigation system retrofit, and drainage modifications. Education and outreach to the public will also be included in the project scope. The vegetated swales are designed to capture, retain, and treat runoff from the adjacent residential, transportation, and landscaped area during dry weather and partially during wet weather. Existing irrigation system will be retrofitted with a smart irrigation system to reduce excessive irrigation runoff, thereby conserving water and reducing flow. Catch basins and storm drains will be installed to capture and divert excess wet-weather flow into the sewer system. Project also includes a nature viewing deck and educational displays that explain local flora-fauna.</p> |
| <p>45</p> | <p><u>Demonstration Gardens at Los Angeles County Fire Department Stations</u></p> | <p>West Basin Municipal Water District</p> | <p>This project involves the installation of drought-tolerant demonstration gardens at a minimum of five fire stations throughout the West Basin service area. These gardens will replace turf and/or concrete areas that are directly in front of the fire stations in order to provide a maximum visibility to the public. The gardens will be utilizing drought-tolerant and/or native plants that will be designed by professional landscape designers that specialize in climate-appropriate plans and trees. The main goal is to provide water conservation and runoff reduction measures and secondarily to educate the public about the measures so that they can create these spaces at their own homes. West Basin strives to reduce demands by implementing conservation and education programs throughout the communities it serves. This project aims to continue implementing outdoor water conservation/education programs to influence the public to create these spaces in their own homes.</p> |
| <p>46</p> | <p><u>Devil's Gate Dam and Reservoir Water Conservation</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project proposes to conserve stormwater by holding a reservoir pool behind Devil's Gate Dam and diverting the water to Eaton Wash Dam and Eaton Wash Spreading Grounds for poststorm groundwater recharge. A pump will be installed in the Devil's Gate Dam reservoir and water will be pumped out and conveyed through over 26,000 feet of pipeline to Eaton Wash Dam where it can be held for recharge at downstream spreading ground facilities.</p> |

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| <p>47</p> | <p><u>Devil's Gate Reservoir Sediment Removal and Management Project</u></p> | <p>Los Angeles County Flood Control District</p> | <p>The 2009 Station Fire was the largest fire in Angeles National Forest recorded history and burned over 160,000 acres in the San Gabriel Mountains. Approximately 68% of the watershed tributary to Devil's Gate Reservoir was burned and as a result of the storms that occurred in the two wet seasons after the fire, sediment levels in the reservoir increased by more than one million cubic yards. The County of Los Angeles Department of Public Works on behalf of the Los Angeles County Flood Control District is planning a sediment removal project of up to 4 million cubic yards. A sediment removal project from behind Devil's Gate Dam is vital to the health of the Arroyo Seco flood control system. The goal of this project is to restore flood control capacity and establish a reservoir configuration more suitable for routine maintenance activities. The project will last approximately 5 years with construction starting in 2014.</p> |
| <p>48</p> | <p><u>Dominguez Channel Greenway Phase III</u></p> | <p>Los Angeles County Flood Control District</p> | <p>The project will consist of development of a native landscaped greenway and bikeway/pedestrian trail along the north side of the Dominguez Channel, between Vermont Av and Normandie Av. The project will include the following: access/maintenance road improvements for the new/improved bikeway; AC repair and replacement, slurry seal, American Disability Act (ADA) access ramps and bikeway/pedestrian signage and striping. Landscaping improvements include landscaping using native and drought-tolerant plants, irrigation, as-needed fencing repair/replacement. Educational/interpretive signage will also be included along the bikeway/pedestrian trail. A study is also recommended to consider additional pedestrian crosswalks with street lamp lighting for added safety. The project is currently on hold until the LACFCD completes a study to address deficiencies in its levees.</p> |
| <p>49</p> | <p><u>Dominguez Channel Trash Reduction Via ARS Installation in the City of Carson, CA</u></p> | <p>City of Carson, Development Services Department, Engineering Services Division</p> | <p>This project would install Automatic Retracting Screens (ARS) in the 1800 Storm Drain Catch Basins in the City of Carson. The proponents favor ARS to collect trash at street level where the trash can be quickly and cost effectively collected weekly by the existing City Street Sweeping Contractor and eliminates the need for other more costly and difficult to maintain downstream trash control systems. This project anticipates the continuing development of local and state waterway trash control efforts and alleviates the need to develop these expensive federal, state and local regulatory mandates. In comparison to other "downstream" trash control systems, the maintenance status of ARS is easily assessed and visible to the public, which is then able to report those locations where maintenance is warranted. Since ARS systems are located in the street sweeper path, maintenance (trash collection) occurs weekly, the trash stays dry and is less subject to the degradation that generates other pollutants (bacteria).</p> |

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| 50 | <u>Dominguez Gap Spreading Grounds West Basin Percolation Enhancement</u> | Los Angeles County Flood Control District | The proposed project will increase the percolation within the spreading grounds facility in order to increase groundwater recharge. The preliminary scope includes removing between 5 to 10-feet of clay sediment or installing vertical trenches/drains through the poorly draining strata in the facility's west basin. Preliminary studies have been conducted including boring samples which will be used to further develop conceptual plans and estimate project benefits. |
| 51 | <u>Duck Farm River Parkway Phase 1 - Water Enhancement Project</u> | Watershed Conservation Authority | The Duck Farm River Park, once a natural floodplain, has been disconnected from the natural processes of the river for decades as a result of urbanization & flood management. The Project reintroduces natural systems through a riparian/pocket wetland/seasonal streambed that improves both habitat and collect, filter & infiltrate stormwater flows onsite, as well as stormwater from the adjacent freeway in collaboration w/Caltrans. The project will transition irrigation source (annually forecasted to require 19M gallons) from imported, highly processed potable water to either local groundwater or recycled water as its source of supply. The public will benefit by being reconnected to nature, the river, & from educational & interpretive programming possible at the site. This change in supply will reduce greenhouse gases & the parks carbon footprint. Outdoor classroom & interactive educational experiences with children will inspire local youth to learn more about our watershed, water conservation & sustainability |
| 52 | <u>Eaton Spreading Grounds Intake Improvements</u> | Los Angeles County Flood Control District | The project will increase the intake and storage capacity of the Eaton Wash Spreading Grounds facility. This will improve the facility's ability to recharge storm water into the groundwater basin, thus greatly increasing the sustainable local groundwater supply that is vital for the region. Los Angeles County Flood Control District will replace the vehicle access slab with a metal grate over the spreading grounds drop intake channel and replace the current diversion flashboards with an inflatable gate within the intake channel. These improvements in Eaton Wash Channel will better direct flows into Eaton Wash Spreading Grounds, thereby increasing its intake capacity. Basin 1 will be enlarged to increase the facility's storage capacity. The project will include improvements to the property along Sierra Madre Boulevard that will significantly improve the sustainability, aesthetics, and safety of the public walkway and street view. Two driveway entrances will be improved by increasing the gate set-back fu |
| 53 | <u>Eaton Wash Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | The dam outlet works rehabilitation project involves the removal of the existing outlet tower and gate house. Once these major components are removed, construction of a gate valve, debris racks, hydraulic power system with a block house, control systems, modification of the outlet works structure, and rehabilitation of the gate valves will commence. It will provide necessary erosion protection measures and improve water quality during low-flow releases from the dam. |

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| 54 | <u>Elysian Reservoir Water Quality Improvement Project</u> | LADWP | LADWP is planning to cover the existing Elysian Reservoir in order to meet US EPA water quality regulations. In April 2012, the Board of Water & Power Commissioners certified the Environmental Impact Report and approved the floating cover alternative. The project will install a flexible membrane floating cover over the existing water surface. Also included are supporting infrastructure (piping, valves, liner) and site improvements (roadway paving, fencing). The reservoir will operate in the same manner, providing potable storage for the distribution system. Construction is anticipated to being by 2015. In conjunction with the project, a Community Parks Fund was established by the Board of Commissioners. The fund is to be used for unspecified public purposes related to community parks. Best efforts will be made to locate enhancements primarily in the Elysian Park area, working together with the community and other City of Los Angeles agencies. |
| 55 | <u>Encinal Emergency Connection</u> | Los Angeles County Waterworks District No. 29 | The project consists of adding a new emergency water source to supply Waterworks District No. 29 through a new interconnection along Encinal Canyon Road at the District boundary with Las Virgenes Municipal Water District (LVMWD). This interconnection would bring water from Metropolitan Water District of Southern California through LVMWD to provide additional supply to the District during emergencies. |
| 56 | <u>Foothill Municipal Water District Recycled Water Project</u> | Foothill Municipal Water District | Three hydrologic areas were studied for the development of satellite recycled water facilities. Foothill Municipal Water District (FMWD) is pursuing the construction of one facility near Berkshire Place in La Canada at this time. This project will treat wastewater using a membrane bioreactor and recharge the product into the groundwater basin using infiltration galleries underneath athletic fields for multi-beneficial uses. Cal Poly Pomona has partnered with FMWD and is developing a model that will also capture stormwater for recharge using the same infiltration galleries. A conservation and education component has also been added. Landscaping will be done to showcase drought tolerant plants at both the MBR site and school site. Tours will be available so that students may learn about stormwater capture, groundwater, recycled water, conservation and the watershed since the Arroyo Seco and Hahamongna Park are across the street. This 0.250 MGD plant will save enough energy annually for 80 homes in So. Cal. |
| 57 | <u>Freeway Runoff Infiltration Demonstration Project</u> | City of Santa Monica | Divert runoff from a section of the Santa Monica Freeway within the City of Santa Monica, treat and infiltrate within an area near the freeway, either a landscaped area or parking lot. The infiltration zones will be augered, if necessary to by-pass poor permeable soils. There will be pre-treatment before infiltration to remove trash, oil/grease, sediments. It will be a passive system, i.e. gravity-fed and low into the system. The treatment-infiltration areas will be areas either already with a storm drain in the area, or the creation of new ones to harvest the runoff. The goal will be to keep runoff out of the existing storm drains and out of the storm drain system. |

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| 58 | <u>Glen Oaks Storm Water Capture Project</u> | Los Angeles Beautification Team | The Prop O funded phase I, the installation of six bio-swales and 4 dry wells. This watershed in an average rainfall year brings 300 acre feet of water to Glen Oaks Blvd. Phase I was completed in January 2014 and is currently capturing an estimated 30 acre feet per year leaving approximately 270 acre feet available for storm water capture. Phase II will consist of an additional eight dry wells for an estimated \$625,000, plus the cost of City Services (Design fees, permits and over site), that will capture an additional 40 to 45 acre feet annually. |
| 59 | <u>Glendale Narrows Habitat Enhancement Project</u> | Council for Watershed Health | The Glendale Narrows Riverwalk will provide approximately one mile of multi-use recreation along the Los Angeles River. There are several invasive plant species that are prevalent adjacent to the Riverwalk in the Glendale Narrows area of the Los Angeles River. These invasive plant infestations jeopardize the improvements to water quality and degrade habitat for native aquatic, avian, reptile, amphibian, and invertebrate species. In collaboration with the City of Glendale Community Services & Parks Department, the Council for Watershed Health (Council) proposes to develop and manage a 3-4 year restoration project to map, control, and monitor invasive arundo and invasive palm trees in the Riverwalk project area in the Glendale Narrows sections of the Los Angeles River. A native plant propagation and replanting effort is also proposed to reestablish riparian plants. |
| 60 | <u>Goldsworthy Groundwater Desalter Expansion</u> | City of Torrance | The Goldsworthy Desalter (Desalter) treats water from the saline plume in the West Coast Groundwater Basin for drinking water. The brackish water is treated to meet or exceed municipal drinking water standards through the use of a reverse osmosis system. The existing Desalter produces approximately 2,000 acre-feet of potable drinking water per year. When the Desalter was originally constructed in 2002, it was designed for expansion to over 5000 acre-feet per year of drinking water. In 2012 the Water Replenishment District of Southern California had a Feasibility Study for the Expansion of Desalter prepared for and approved by the U. S. Bureau of Reclamation. The expansion would involve the installation of additional reverse osmosis treatment units, construction of two additional source water wells, transmission mains and related appurtenance. The project also diverts waste water away from Santa Monica Bay where discharges cause TMDL violations for bacteria. |

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| 61 | <u>Groundwater Reliability Improvement Project (GRIP)</u> | Water Replenishment District of Southern California | The overarching goal of the GRIP Recycled Water Project is to offset the current use of imported water by providing up to 21,000 acre-feet per year (AFY) of recycled water as a reliable supply source for groundwater basin replenishment via the Montebello Forebay within a reasonable timeframe. The source for the recycled water will be the Los Angeles County Sanitation Districts' San Jose Creek Water Reclamation Plant (SJCWRP). Tertiary treated recycled water, advanced treated recycled water (microfiltration, reverse osmosis and advanced oxidation), or a combination of the two will be conveyed from the SJCWRP via an existing pipeline or possibly a new pipeline for recharge in the Central Groundwater Basin through the Montebello Forebay Spreading Grounds or potentially a new injection well field. |
| 62 | <u>Groundwater System Improvement Study</u> | LADWP | The purpose of the Groundwater System Improvement Study (GSIS) is to perform an independent study to identify, characterize, and evaluate emerging water quality constituents for the San Fernando Basin (SFB). This will include a comprehensive analysis that will provide recommendations in developing short and long-term projects, including the design and construction of groundwater treatment facilities, to maximize the use of the groundwater supply in the SFB. As a part of the GSIS, the LADWP will be drilling approximately 26 new groundwater monitoring wells, and perform short-term monitoring of existing and new wells, in order to obtain supplemental water quality data necessary for planning the groundwater treatment facilities in the SFB. |
| 63 | <u>Groundwater Treatment Facilities</u> | LADWP | Design and construction of groundwater treatment facilities in North Hollywood, Rinaldi-Toluca and Tujunga Wellfields in the San Fernando Basin (SFB), with a treatment capacity of 122,900 acre-feet per year. |
| 64 | <u>Hansen Dam Golf Course Water Recycling Project</u> | LADWP | Construct 4,500 feet of 20" pipeline, pumping station and pipe support bridge to deliver recycled water from the Tillman Plant to the Hansen Dam Golf Course and other potential future users. Water will be pumped from the Hansen Tank. |
| 65 | <u>Hansen Dam Water Conservation Project</u> | Los Angeles County Flood Control District | Hansen Dam, situated adjacent to the Tujunga Wash Channel in the San Fernando Valley, is a vital part of flood control efforts in the Los Angeles River drainage basin. The primary purpose of Hansen Dam is flood control; however the opportunity exists to increase water conservation and water supply through increased water recharge upstream of the dam. The current operation of the dam allows for an average annual water conservation of 17,100 acre feet per year. The Water Conservation Project, which involves utilizing the existing Debris and Flood Control Pools for water conservation purposes by raising their respective maximum elevations to allow for additional water supply storage, would increase the dam's water conservation ability. This extra supply storage would allow for dam releases to downstream spreading grounds and other facilities to |
| 66 | <u>Hansen Dam Water Conservation and Supply</u> | The River Project | Change management regime of Hansen Dam to focus on water conservation by maintaining a water conservation pool within the reservoir during and subsequent to flood season. |

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| 67 | <u>Headworks East Reservoir</u> | LADWP | onstruction of a 110 MG buried reservoir along with a 4 MW hydroplant at the former Headworks Spreading Grounds to replace the storage capacity lost when Ivanhoe Reservoir is removed from service. Needed to bring the Water System into compliance with state and federal drinking water regulations by the regulatory deadline of November 2014 |
| 68 | <u>Headworks Ecosystem Restoration</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 69 | <u>Herondo Parking Lot and Beach Infiltration</u> | City of Redondo Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 70 | <u>Hoover, Toll, & Keppel School Recycled Water Project</u> | Glendale Water & Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 71 | <u>Humboldt Stormwater Greenway</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 72 | <u>Improvements to Entradero Storm Drain Channel for Storm Water Infiltration and Habitat Restoration</u> | City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6 | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 73 | <u>Improvements to San Gabriel River Diversion and San Gabriel River Water Committee Canal and Appurtenances</u> | Azusa Light and Water | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 74 | <u>Indirect Reuse Replenishment Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 75 | <u>Johnny Carson Park Stream Restoration and Park Revitalization</u> | City of Burbank | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 76 | <u>Jordan Downs Daylighting Study</u> | Multi-jurisdictional Agencies-LA City Housing and Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 77 | <u>LA River Sixth Street Bridge Greenway</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 78 | <u>LVMWD Woodland Hills Golf Course Recycled Water Pipeline Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 79 | <u>La Puente Valley County Water District Recycled Water Project</u> | Upper San Gabriel Valley Municipal Water District & La Puente Valley County Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 80 | <u>Landscape Irrigation Efficiency Program (LIEP)</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 81 | <u>Large Landscape Irrigation Survey and Retrofit Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 82 | <u>Las Virgenes Creek Bank Stabilization, Stream Restoration, Fish Migration Enhancement and Trail Connection</u> | City of Calabasas | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 83 | <u>Live Oak Dam Inlet/Outlet Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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Comment Letter to the LACFCD: Draft PEIR

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|-----|---|--|---|
| 84 | <u>Live Oak Spreading Grounds Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 85 | <u>Lopez Spreading Grounds Improvement</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 86 | <u>Los Angeles River Center and Gardens Green Conference Center</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 87 | <u>Los Angeles River Natural Park</u> | City of Los Angeles Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 88 | <u>Los Angeles River Revitalization Master Plan 32 Mile Channel and Easement Greening</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 89 | <u>Los Angeles State Historic Park Water Recycling Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 90 | <u>Los Angeles-Burbank Groundwater System Interconnection</u> | LADWP / Burbank Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 91 | <u>Los Angeles-Glendale Groundwater System Interconnection</u> | LADWP / Glendale Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 92 | <u>Lower Los Angeles River Area Linear Water Storage Feasibility Study</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 93 | <u>Malibu Civic Center Area Recycled Water Delivery Project</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 94 | <u>Malibu Civic Center Linear Park Phase 3</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 95 | <u>Malibu Drought Preparedness Project: Graywater Reuse and Rainwater Harvesting</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 96 | <u>Malibu Equestrian Center Runoff BMPs</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 97 | <u>Malibu Rainwater Harvesting</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 98 | <u>Malibu Road/Malibu Colony Stormwater Management</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 99 | <u>Manhattan Strand 28th Street Subsurface Infiltration Trench</u> | City of Manhattan Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 100 | <u>Manhattan Wells Improvement</u> | LADWP / Water Replenishment District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 101 | <u>Marsh Park, Phase II</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 102 | <u>Medea Creek Restoration at Chumash Park</u> | City of Agoura Hills | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 103 | <u>Miller Pit Spreading Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 104 | <u>MillerCoors Recycled Water Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 105 | <u>Milton Street Park and Green Street project - Ballona Creek</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 106 | <u>Mission Hills Green Belt</u> | The River Project | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 107 | <u>Mission Wells Improvement</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 108 | <u>North Hollywood Groundwater and Surface Water Benefits Study</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 109 | <u>North Hollywood Street Enhancement</u> | City of Los Angeles | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 110 | <u>North Hollywood Transmission Corridor Easement Stormwater Capture Study</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 111 | <u>North Santa Monica Bay Firecamp 13 LID Retrofit</u> | Los Angeles County Deptment of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 112 | <u>North Santa Monica Bay Probation Camp Miller LID Retrofit</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 113 | <u>Northeast Gardena Recycled Water Line</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 114 | <u>Northeast Gardena Storm Water Quality Park, Recycled Water Line, and Landscape Makeover</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 115 | <u>Northeast Gardena Water and Landscape Makeover, Community Involvement Module</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 116 | <u>Oak Park Green Streets Urban Retrofit</u> | County of Ventura | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 117 | <u>Oak Park Medea Creek Restoration</u> | Mountains Restoration Trust | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 118 | <u>Ocean Friendly Garden (OFG) Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 119 | <u>Olive Pit Water Conservation Park</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 120 | <u>Oxford Retention Basin Multi-Use Enhancement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 121 | <u>Ozone Park Runoff Treatment and ReUse Project</u> | City of Santa Monica | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 122 | <u>Pacoima Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 123 | <u>Pacoima Neighborhood Retrofit</u> | The River Project | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 124 | <u>Pacoima Reservoir Sediment Removal</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 125 | <u>Pacoima Spreading Grounds Improvements</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 126 | <u>Palos Verdes Peninsula Satellite Facilities Study</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 127 | <u>Palos Verdes Recycled Water Lateral</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 128 | <u>Pasadena Recycled Water Project</u> | Pasadena Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 129 | <u>Peck Water Conservation Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 130 | <u>Puddingstone Diversion Dam Inlet/Outlet Works Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 131 | <u>Raw Wastewater Diversion to the City of Los Angeles</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 132 | <u>Recycled Water On-Site Retrofit Projects</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 133 | <u>Recycled Water Storage and Distribution System Expansion</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 134 | <u>Recycled Water Supply for Palos Verdes Golf Course</u> | City of Palos Verdes Estates | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 135 | <u>Recycled Water Turnouts</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 136 | <u>Regional Water Supply Reliability Program Phase 1b</u> | Puente Basin Water Agency | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 137 | <u>Residential Indoor Plumbing Retrofit Kits</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 138 | <u>Residential SMART Timer Retrofit "Plus" Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 139 | <u>Rio Hondo Coastal Basin Spreading Grounds - Sediment Removal from Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 140 | <u>Rockhaven Well</u> | Crescenta Valley Water District and Glendale Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 141 | <u>SMURRF Distributed Water Reuse Project</u> | City of Santa Monica | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 142 | <u>San Gabriel Coastal Basin Spreading Grounds Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 143 | <u>San Gabriel Dam Penstock Coatings and Valve Repair</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 144 | <u>San Gabriel Valley Water Recycling Project (Phase I - Rose Hills Expansion)</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 145 | <u>San Gabriel Valley Water Recycling Project - Membrane Bioreactor Treatment Plant</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 146 | <u>San Jose Creek Water Reclamation Plant East Process Optimization Project</u> | County Sanitation Districts of Los Angeles County | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 147 | <u>San Rafael Creek Restoration</u> | Arroyo Seco Foundation | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 148 | <u>San Ramon Canyon Stormwater Flood Reduction Project</u> | City of Rancho Palos Verdes | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 149 | <u>Santa Anita Dam Seismic Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 150 | <u>Santa Fe Dam Water Conservation Pool</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 151 | <u>Santa Fe Spillway Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 152 | <u>Sawpit Debris Dam Seismic Strengthening Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 153 | <u>Septic-To-Sewer Drinking Waterwell Protection Project</u> | City of Los Angeles Bureau of Sanitation/Wastewater Engineering Services Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 154 | <u>Sepulveda Basin Sports Complex Multi-Purpose Open Space Project</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 155 | <u>Sepulveda Basin Sports Complex Riparian Buffer</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 156 | <u>Sheldon Pit</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 157 | <u>Shoestring Park</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 158 | <u>Silver Lake Reservoir Bypass & Regulator Station</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 159 | <u>Six Basins and Puente Basin Integrated Water Supply Project</u> | Puente Basin Water Agency | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 160 | <u>South Coast Botanic Gardens</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 161 | <u>South El Monte Recycled Water Expansion Project Package 1</u> | Upper San Gabriel Valley Municipal Water District & San Gabriel Valley Water Company | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 162 | <u>South El Monte Recycled Water Expansion Project</u> | Upper San Gabriel Valley Municipal Water District & San Gabriel Valley Water Company | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 163 | <u>South Los Angeles County Groundwater Pipeline Project</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 164 | <u>South Park Subsurface Infiltration Gallery</u> | City of Hermosa Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 165 | <u>Southeast Gardena Recycled Water Line</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 166 | <u>Stormwater Diversion to Walnut Avenue Sump</u> | City of Torrance | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 167 | <u>Sun Valley Watershed Rory M. Shaw Wetlands Park Project (a.k.a. Strathern Wetlands Park)</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 168 | <u>Taylor Yard River Park Parcel G2</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 169 | <u>Terminal Island WRP Advanced Water Purification Facility and Distribution System Expansion Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 170 | <u>Terminal Island WRP Advanced Water Purification Facility and Distribution System Expansion</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 171 | <u>Thousand Oaks Boulevard and Westlake Elementary Recycled Water System Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 172 | <u>Topanga Connection Acquisition</u> | Mountains Restoration Trust | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 173 | <u>Transfer Station Cover Structure and Site Improvements</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 174 | <u>Triunfo Community Park and Evanstar Park Recycled Water Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 175 | <u>Trunk Sewer Rehabilitation Projects</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 176 | <u>Turf's Up Water Use Efficiency Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 177 | <u>Valley Generating Station Stormwater Recharge Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 178 | <u>Van Ness and Slauon Infiltration Best Management Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 179 | <u>Verdugo Hills Stormwater Project</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 180 | <u>Vermont Avenue Storm Water Capture and Green Street Beautification Project</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 181 | <u>Vermont Median Stormwater Park</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 182 | <u>Victoria Street CSUDH Water Reuse Concept Proposal</u> | City of Carson | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 183 | <u>WRD Eco Gardener Program</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 184 | <u>Walnut Creek Spreading Basin Improvements</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 185 | <u>Water Budget Based Rate Implementation</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 186 | <u>Water Star Schools Pilot Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 187 | <u>Well 15</u> | San Gabriel County Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 188 | <u>Well 7</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 189 | <u>Well No. 2 Rehabilitation</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 190 | <u>West Coast Basin Barrier Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 191 | <u>Westlake Filtration Plant Enhancement & Backbone Improvements</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 192 | <u>Westward Beach Road Bioinfiltration Project</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 193 | <u>Westwood Neighborhood Greenway Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 194 | <u>Whiting St. and El Segundo Blvd. Dry Weather Diversion Structure</u> | City of El Segundo | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 195 | <u>Whitnall HWY Powerline Easement Stormwater Capture Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

October 23, 2014

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RE: Public Comment: Notice of Preparation of a Draft Program Environmental Impact Report for Enhanced Watershed Management Programs

Dear Mr. BeGell:

Thank you for your efforts on the Notice of Preparation (NOP) of the Draft Program Environmental Impact Report for the Enhanced Watershed Management Programs (EWMP). I am confident your work will result in an informative and precise first tier final Program Environmental Report (PEIR) that is adequate, complete, and a good faith effort at full disclosure. The purpose of my comments, per Section 15168(c)(5) of the 2014 California Environmental Quality Act (CEQA) Statute and Guidelines, is to assist in the creation of a PEIR “that deals with the effects of the program as specifically and comprehensively as possible.” Additionally, I realize that by doing “a good and detailed analysis of the program, many subsequent activities could be found to be within the scope of the project described in the program EIR, and no further environmental documents would be required.”

I recognize and appreciate the herculean task involved for the Flood Control District and it is my sincere attempt to keep my comments relevant to the NOP. As such, I have attempted to draft my comments in a reader-friendly manner that identify the issue and, wherever possible, propose a feasible solution. My comments only address the content of the NOP.

COMMENTS ON THE CONTENT OF THE NOP

1. Introduction

COMMENT No. 1: (Page No. 2) Please elaborate on the approval process. It would be informative if the role between the Los Angeles County Flood Control District (LACFCD) and the Los Angeles Regional Water Quality Control Board (LARWQCB) is further explained. The introduction does a good job explaining the steps involved in the EWMP process, but lacks clarity on the connection between the PEIR and LARWQCB. In particular, the sentence in mind states, “The LARWQCB is responsible for approval of the EWMPs in compliance with the MS4 Permit. Implementation of the EMWPs would occur following approval by the LARWQCB.”

If the LARWQCB approves the EWMPs then who adopts the final PEIR? How does this PEIR fit into the responsibilities and mandates of the LARWQCB? All 12 of the EWMPs specify a date when the final EWMPs will be submitted (June 2015) to the LARWQCB, but no mention is made about the PEIR. In addition, the NOI submitted to the LARWQCB by each Watershed Management Group (WMG) span two programs: the EWMPs ‘and’ Coordinated Integrated Monitoring Programs (CIMP). What is a CIMP? Does this PEIR also analyze the CIMP?

COMMENT No. 2: (Page 2) Project Location – Please elaborate as to whether the policies and plans of the EWMPs are targeting public property, public right-of-ways, land owned by the LACFCD and/or private property.

COMMENT No. 3: (Page 4, Figure 1 – Overview of EWMP Groups) The EWMP groups only identify a total of 47 participating cities (Permittees) throughout Los Angeles County. However, there are 37 remaining Permittees throughout Los Angeles County that are not part of the

EWMP groups. Is this PEIR broad enough in scope for Los Angeles County? How will the remaining 37 cities meet compliance goals and strategies under the 2012 MS4 Permit?

COMMENT No. 4: (Page 5) The opening paragraph states that “The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach.” However, a review of all 12 EWMPs indicates that there was no cost/benefit analysis or any modeling completed to substantiate the “cost-effectiveness” of these methods. Please identify any additional documentation supporting this claim.

COMMENT No. 5: (Page No. 5) This comment attempts to clarify the scope of the PEIR by asking, “how much information is enough?” Please clarify the use of the term “project.” The final sentence in the first paragraph states, “The EWMPs will also evaluate multi-benefit regional projects that will retain (through infiltration or capture and reuse) the stormwater quality design volume (85th percentile storm for 24 hours) for the runoff from the contributing drainage area.” Evaluating, site-level projects at the PEIR level creates a lack of agreement between the inherent programmatic and geographic scope of the PEIR and the site-specific goal of a single-project EIR, as Section 21002.1(d) of the CEQA Statute states, “to consider the effects, both individual and collective, of all activities involved in ‘a’ project.” I reviewed all 12 of the EWMPs and CIMPs and they do not identify projects currently in the works and no analysis is provided. The EWMPs seem to be evaluating plans and policies. Clarification of the term project would be beneficial in order to clearly understand the scope of this PEIR.

Providing additional contrast is, Section 21003 which states, “All persons and public agencies involved in the environmental review process be responsible for carrying out the process in the most efficient, expeditious manner in order to conserve the available financial, governmental, physical, and social resources with the objective that those resources may be better applied toward the mitigation of actual significant effects on the environment.” In an effort to avoid the possibility of imposing an unfunded mandate on local cities and/or non-profit groups to undertake the second tier of this PEIR, the prudent use of public funds, and to promote a second tier CEQA process that is streamlined, I feel it would be beneficial to incorporate an analysis of current projects in the “pipeline.”

This is critical because a review of the Greater Los Angeles County Integrated Regional Water Management (IRWM) database reveals over 190 water resources projects with regionally-significant benefits in the pipeline (Attachment A). The IRWM is a funding mechanism that encourages regional and local collaboration in the design of sustainable water resources infrastructure. To date, regional agencies, cities, non-profits and community representative groups, have collaborated and submitted project proposals of regional significance. Not all of these projects incorporate BMPs, per say (many do), and many have already been deemed categorically exempt. Additional vetting would need to take place in order to identify projects in-line with a low impact development ideal to collaborate and integrate compliance strategies that are based on a multi-pollutant approach with a focus on green infrastructure that maximize the retention and use of urban runoff as a resource for recharging aquifers and for irrigation and other uses.

If this nexus to analyze the impacts of regional projects is deemed reasonably feasible, further vetting of the projects would be required to understand their CEQA status. The question is who conducts this analysis, the LACFCD or the WMGs? This is important to figure out since Section 15152(b) of the CEQA Statute and Guidelines states that, “Tiering does not excuse the lead agency from adequately analyzing reasonably foreseeable significant environmental effects of the project and does not justify deferring such analysis to a later tier EIR or negative declaration.”

COMMENT No. 6: (Page 5) The second paragraph states, “The PEIR will provide a program-level assessment of the overall permit compliance effort, focusing particularly on the structural watershed control measures proposed in each of the 12 EWMP areas.” The project list on Attachment A identifies projects aiming to implement watershed control measures throughout Los Angeles County. Many of these projects are categorically exempt, have concluded their own environmental assessment or already constructed, however, the database (L.A. Water Plan) where I retrieved these does not clearly indicate this information. Furthermore, none of the 12 EWMPs under consideration undertook this task to see how the proposed physical changes within their EWMP may or may not comply with the goals and objectives of their respective plans and policies. In an effort to, as Section 15152© describes, “avoid deferring the potential significant impacts to the second tier and possibly preventing the adequate identification of significant effects of the planning approval at hand,” it may be worthwhile to include this list of “reasonably foreseeable” regional projects in the PEIR analysis or have the WMGs revise their draft plans to incorporate this analysis.

1.1 Project Location

COMMENT No. 7: Refer to Comment No. 2. In addition, the description of the location could be augmented by elaborating on the baseline environmental context. Also, adding maps identifying the tributaries, rivers, channels, etc. within the 12 watersheds could increase understanding of the local watershed functional characteristics. The maps are contained in most of the individual EWMPs. A reference to the website location of each respective EWMP could suffice.

Additionally, there is no reference to the types of soils that underlie the 12 EWMPs. The EWMPs provide a summary of these soil characteristics. A reference to the website location of each respective EWMP would be helpful. It is important to know the soil types and their respective infiltration rates in order to understand the feasibility of implementing certain structural BMPs. I realize that this may be covered in more depth under the Geology, Soils and Seismicity category, but there is no clear reference in the accompanying summary.

2. BACKGROUND

2.1 Stormwater/Water Quality

COMMENT No. 8: (Page 7) The first paragraph states, “Discharges may adversely affect receiving surface water quality with pollutants such as bacteria, nutrients (nitrogen and phosphorus), aluminum, copper, lead, zinc, diazinon, and cyanide. Aquatic toxicity, particularly during wet weather, is also a concern. Stormwater and non-stormwater discharges of debris and trash are also a pervasive water quality problem in the Los Angeles region.” It would be beneficial to add the types of pollution stemming from the natural environment (non-anthropogenic), too. What kind of pollutants exists in the stormwater resulting from the erosion of soil from natural settings and undeveloped vacant parcels of land?

2.2 Total Maximum Daily Loads

COMMENT No. 9: A sentence in section reads, “A TMDL is defined as the “sum of the individual waste load allocations (WLAs) for point sources and load allocations for nonpoint sources and natural background” (40 CFR 130.2), such that the capacity of the water body to assimilate constituent loads (the loading capacity) is not exceeded.” What currently happens when TMDLs are exceeded? Is there a monetary fine?

2.3 MS4 Permit

COMMENT No. 10: (Page 7) This section states, “The MS4 Permit identifies conditions, requirements, and programs that municipalities must comply with to protect regional water resources from adverse impacts associated with pollutants in stormwater and urban runoff.” What currently happens if these conditions or requirements are not met by municipalities? Is there a monetary fine?

3. Enhanced Watershed Management Plans

COMMENT No. 11: As mentioned in the first comment under the Introduction heading, please elaborate on the approval process. Specifically, how the PEIR fits into the LARWQCBs approval of the EWMPs. Additionally, there’s a sentence that states, “The 2012 MS4 Permit includes provisions that allow Permittees to voluntarily choose to implement a EWMP to achieve permit compliance with RWLs.” How will permit compliance be verified and who will monitor compliance?

4.1.1 Regional Structural BMPs

COMMENT No. 12: The second paragraph states, “Opportunities for Regional BMPs will be identified and evaluated within and across subwatersheds, with focus on the multi-benefit potential for capture and reuse of wet-weather flows within variable drainage areas.” What method and level of detail will be used to identify and evaluate BMPs? This paragraph goes on to state that, “Potential project locations may include areas with open spaces, whether they are within parks, large parking lots, or vacant spaces,” indicating that a geographically site-specific analysis is appropriate under this PEIR. Collectively, there is over 190 regional projects identified in Attachment A being proposed by the various members of the WMGs. Based on the site-specific potential project locations stated above, is it feasible to include an analysis of the project list (Attachment A)?

5 Potential Environmental Impacts

COMMENT No. 13: This section (nor the LACoH2Osheds website) does not reference the completion of an Initial Study per Section 15063©(1), nor provide clarity as to what is not being decided. How did the Lead Agency identify the effects determined not to be significant? Is there an explanation of the reasons for determining that potentially significant effects would not be significant?

COMMENT No. 14: The sentence that states, “The PEIR will assess the physical changes to the environment that would likely result from the construction and operation of EWMP projects,” does not reference assessing the physical changes that would result from ‘maintenance’ of said project(s).

COMMENT No. 15: Air Quality Category – In an effort to help identify California communities that are disproportionately burdened by multiple sources of pollution, this category should also consider evaluating the air quality data collected by the Office of Environmental Health Hazard Assessment’s (OEHHA) California Communities Environmental Health Screening Tool Version 2.0 (CalEnviroScreen 2.0).

COMMENT No. 16: Hazards and Hazardous Materials – In an effort to help identify California communities that are disproportionately burdened by multiple sources of pollution, the following sentence, “Potential hazards will be evaluated and assessed by reviewing the data collected by the California State Water Resources Control Board (SWRCB) GeoTracker and the California Department of Toxic Substances Control (DTSC) Envirostor databases,” should also consider evaluating the data collected by the OEHHA California Communities Environmental Health Screening Tool Version 2.0 (CalEnviroScreen 2.0).

COMMENT No. 17: POPULATION AND HOUSING/GROWTH INDUCEMENT – Assuming that not all cities have the staff or capacity to implement the objectives of the plans and policies of EWMPs, what are some of the unforeseen consequences of minimal to no implementation of BMPs or LID in communities/cities with low median household income? Will these cities bear an unfair burden of paying non-compliance fines?

Sincerely,

Enrique Huerta, M.S.

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

| | Project Name | Project Proponent | Project Description |
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| 1 | <u>25 mgd Sea Water Desalination Plant in West Basin</u> | West Basin Municipal Water District | The project proposes to construct a 25mgd Seawater Desalination Plant in West Basin's service area for potable water use. First, a Demonstration Plant will be necessary to evaluate the water quality performance and treatment stability, assess efficient energy recovery devices, optimize operational performance utilizing full scale process equipment, and to acquire the necessary data to achieve regulatory compliance and approval. West Basin and its partners will perform the full battery of water quality analyses to ensure that the demonstration project meets all Federal and State Drinking Water Standards. With the knowledge gained by operating the Demonstration Plant, West Basin expects to move forward with the planning, design, and construction of a full scale 25,000 AFY seawater desalination and education facility. West Basin anticipates operating the Demonstration Plant for at least two years while plans are being completed and finalized for the full-scale plant. The Demonstration Facility is in design. |
| 2 | <u>AMR Conversion Project</u> | Los Angeles County Waterworks District No. 29 | The project consists of replacing the older water meters in Waterworks District No. 29. The District maintains approximately 7,700 water meters in Malibu and Topanga. About 40 percent of the meters are older than 15 years and 30 percent are 20 years or older. Meters lose accuracy over time, representing unaccounted water consumption in the District. Older meters typically under-measure water use. Replacing old water meters with automated meter reading (AMR) meters will yield timely, reliable water consumption patterns for detecting leaks and producing accurate customer bills. Higher bills with higher water use volumes will alert District customers about their water consumption habits, which is expected to encourage conservation. The current practice is to replace meters as the meters stop functioning or become unreadable. About 20% of the water meters in Malibu and Topanga have been replaced with AMR meters. |
| 3 | <u>Agoura Road Gap Recycled Water System Expansion</u> | Las Virgenes Municipal Water District | The project would extend the existing recycled water line along Agoura Road to serve existing customers who use potable water for landscape irrigation. Pipeline for this project is estimated at 9250 feet of 8 inch pipe and would connect to existing recycled water pipelines on both east and west sides of the extension. This would connect the gap that exists between Reyes Adobe Road and Lewis Road and improve the system hydraulics and reliability of service to customers. The estimated maximum daily demand for the Agoura Road Extension is 73 gpm. |

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Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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| 4 | <u>Agua Amarga Lunada Canyon Habitat Restoration</u> | Palos Verdes Peninsula Land Conservancy & City of Rancho Palos Verdes | Restore 20 acres at Agua Amarga Reserve, to provide habitat for the Federally threatened Coastal California gnatcatcher, the Federally endangered Palos Verdes blue butterfly, and the rare cactus wren. A one-mile trail in the Reserve continues to the coast. A year-round flow of water is discharged to the head of Lunada Canyon via a County of Los Angeles storm drain; the water then flows below ground through the canyon, the course of an historic blue line stream, and re-emerges at its confluence with Agua Amarga Canyon, also a blue-line stream that flows into the Santa Monica Bay. Invasive plant species provide little water infiltration and threaten to spread to the pristine lower canyon. The project will remove invasive plants, restore 18 acres of riparian and coastal sage scrub; install 2 acres of cactus scrub in highly degraded fuel modification areas; improve trails and add trail signage. Interpretive signage will educate hikers about creating wildlife-friendly fuel modification zone. |
| 5 | <u>Aliso Creek - Limekiln Creek Restoration Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Stormwater runoff would be diverted from Aliso Creek and from Limekiln Creek and stormwater runoff generated on site will be treated. In addition to providing water quality benefits, the project will result in the creation of self-sustaining riparian woodland vegetation and other re-vegetated areas, as well as providing recreational opportunities to area residents. The site has an area of approx. 11.8 acres and is currently used as a flood control facility, provides open space, and serves as part of Vanalden Park. Wet weather runoff and dry weather runoff from an approx. 12,091 acres that drains to the confluence of Aliso Creek and Limekiln Creek is going to be captured and conveyed to the project site for treatment. On-site generated flows will also be captured and treated. Proposed BMPs to treat captured water: Low flow channel diversions and pumping; Pre-screening devices, Bioswales, Vegetated detention basins, Landscaping with native upland and riparian species and Installing decomposed granite pathways. |
| 6 | <u>Alondra Regional Park</u> | Successor Agency, City of Compton | Alondra Regional Park is a multi-benefit project that serves disadvantaged communities while meeting IRWMP water management objectives. The entire site is currently an empty 18-acre lot owned by the City of Compton. This proposal is for Phase I of the project and covers 12 acres on the southern half of the parcel. The park provides recreational opportunities while improving surface water discharges into the Dominguez Channel Watershed. The project site sits on the drainage area and will capture 1.5AF of stormwater. The park features a swale and daylighted stream to remove nutrients and pollutants that otherwise flow to local waterways. The large biofiltration field will reduce peak flows, improve water quality and occasionally serve as a recreational field. Surface water quality improvements would help the region meet requirements under the Municipal Separate Storm Sewer System Permit. The project also includes native shrubs and trees that will increase habitat for birds, butterfly species and mammals. |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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| 7 | <u>Alternative Decker Canyon Recycled Water Extension</u> | Las Virgenes Municipal Water District | As with the original Decker Canyon Recycled Water Extension pipeline route, this alternate would primarily serve the Malibu Golf Club, the largest potable water user in the LVMWD service area. The 2007 Master Plan advocated that serving the golf course with recycled water could be an important strategy for relieving eventual stress on the potable system. The longer alternative route used in this project would also serve other demands along the way. In addition to the golf club, significant recycled water demands are expected to come from a new development (Triangle Ranch) and conversion of the existing Medea Valley ranchettes to recycled water use. The project is projected to deliver 459 AF/Y of recycled water, offsetting the same amount of potable demand that would occur if the extension were not built. |
| 8 | <u>Andrews Park Subsurface Storage, Use and Infiltration Project</u> | City of Redondo Beach | The project will consist of a diversion, conveyance pipes, a gross solids removal device (GSRD), an irrigation storage tank, and an infiltration gallery. Dry- and wet-weather flows will be diverted from the existing storm drain up to the maximum diversion flow rate and will then enter the storage tank through the conveyance pipe and GSRD. Once the storage tank reaches a depth of 1.5 feet, flows will be pumped to be used for onsite subsurface irrigation. When the storage volume of the irrigation tank reaches capacity, runoff will flow via an overflow pipe into the infiltration gallery, where the water will infiltrate subsurface soils. When continual flows fill the infiltration gallery and irrigation storage vault to storage capacity, diverted flows will back-up through the diversion piping and prevent additional flow diversion until capacity is freed up due to irrigation use and/or infiltration losses. |
| 9 | <u>Arroyo Seco Confluence Gateway</u> | Arroyo Seco Foundation | The Confluence Gateway Greenway Program will restore a 1/3 mile stretch of urban land alongside the Arroyo Seco, in the Arroyo Seco Scenic Byway Corridor, into a riparian greenway and open space park with native landscaping and a bicycle/pedestrian path. Not only would the project embody a first step in enhancing river access and recreation opportunities, it would provide a key link between the planned Los Angeles River greenways at the confluence and the Metro Rail station in the historic Lincoln Heights neighborhood, thus enabling light rail and bicycle access to the Arroyo Seco and the Los Angeles River. Ultimately, the Arroyo Seco greenway is envisioned to extend to South Pasadena, and this initial segment at the confluence would be an important hub in the regional river parkway and bicycle trail network. |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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| <p>10</p> | <p><u>Arroyo Seco North Branch Creek Daylighting</u></p> | <p>Arroyo Seco Foundation</p> | <p>Naturalize north branch storm drain and restore stream through Sycamore Grove Park. Primary Objectives Addressed by the Project: By re-establishing an urban stream, this project addresses water quality, riparian habitat restoration, groundwater recharge, flood management, and public education. The Sycamore Grove Park site is approximately 800 feet long and 400 feet wide. This 8-acre site is located in northeast Los Angeles and situated west of the SR-110 (). This site encompasses Sycamore Grove Park and is bounded by South Avenue 49 to the northeast, the SR-110 to the east, medium density residential uses to the south, and North Figueroa Street to the west. Sycamore Grove Park is a landscaped area consisting of a large lawn, playground, and parking area. The North Branch tributary is contained within a storm drain beneath Sycamore Grove Park.</p> |
| <p>11</p> | <p><u>Baldwin Lake</u></p> | <p>Los Angeles Arboretum Foundation</p> | <p>For centuries the waters of Baldwin Lake have sustained human endeavor. A rich historic site, its role began in the Native America period when springs and marsh, precursors to today's lake, supported nearby habitation. In the late 19th Century, Elias Jackson Baldwin chose the Lake as the center for agriculture and land development that shaped the establishment of the east San Gabriel Valley. Today, as the centerpiece of the Los Angeles County Arboretum, the Lake is an educational and scenic resource serving hundreds of thousands of visitors. Looking to the future, Baldwin Lake is envisioned as a model for community-based environmental stewardship and regional approaches to water management and conservation. Ideally located at the edge of the Raymond Basin aquifer, the Lake offers great potential as the nexus for water management and ground water recharge for the Arboretum's 127 acres, as well as the surrounding urban watershed. Educational programming that interprets the history of the Lake, particul</p> |
| <p>12</p> | <p><u>Ballona Creek Water Quality and Beach Improvement & Beneficial Use Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>Project is to implement the valuable uses of stormwater and to improve the water quality in Ballona Creek Watershed. Ballona Creek Low Flow Treatment Facility (LFTF), also known as North Outfall Treatment Facility (NOTF), is one of several projects proposed in Ballona Creek TMDL Implementation Plans for Bacteria, Metals, and Toxic Pollutants. The LFTF includes a 1 million gallon storage facility and has the capacity to treat up to 150 cfs, including screening of coarse, fine sediments, and disinfection with sodium hypochlorite. NOTF was constructed in 1987 by City of Los Angeles. The project proposes to use the existing treatment facility and construct a low-flow diversion structure in Ballona Creek Channel to divert and treat full dry-weather flow and partial wet-weather flow. 65 percent of Ballona Creek Watershed (85 square miles) is located upstream of the Project, with average dry-weather flows ranging from 14 to 25 cfs. Treatment will include coarse screens, sedimentation, filtration, and disinfection.</p> |

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Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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| 13 | <u>Be A Water Saver Water Conservation Program</u> | City of Burbank Water and Power | <p>The City of Burbank proposes to expand and increase water conservation through the expansion of a comprehensive indoor/outdoor financial incentive program that will result in immediate and sustainable water savings. The proposed Rebate Program to install 1,300 HE toilets, replace 300,000 square feet of turf with native landscapes, capture and reuse rain water 3 million gallons of rain water with rain barrels, and increase water conservation education efforts will save an estimated 500 AF of water annually. Grant funding for the proposed project will facilitate greater water savings by providing funding for greater levels of participation sooner than would be realized under typical funding efforts. Furthermore, these benefits will be realized faster by utilizing a proven system for conservation, a truly ready to proceed project. This project has the potential to double participation levels.</p> |
| 14 | <u>Bette Davis Park Water Recycling Project</u> | LADWP | <p>This project will consist of planning, design, and construction of approximately 4,625 feet of new 8-inch PVC and Ductile Iron recycled water pipeline to extend Glendale's recycled water distribution system from the intersection of Flower St. and Grandview Ave. to Bette Davis Park. Approximately 4,300 feet of pipeline will be installed within Glendale's city right of way. Through an Agreement with the City of Glendale, this project will be designed and constructed by Glendale's contractors and LADWP will reimburse Glendale for the costs. This will reduce the City's potable demand for non-potable uses. This project will offset up to 75 AFY of potable water with recycled water.</p> |
| 15 | <u>Big Dalton Sluiceway Rehabilitation</u> | Los Angeles County Flood Control District | <p>This project will upgrade the sluiceway to function as a low level outlet for regulating flows under high reservoir pressure and repair various facility components for the dam. The existing sluice gate at the upstream end is to be replaced with a new heavy duty hydraulic actuated gate, the sluiceway is to be lined with new pipe for the entire length, and a throttling valve is to be installed at the outlet. Storm releases through the sluiceway will reduce the rate of sediment accumulation and prevent sediment deposits at the face of the dam. Incoming sediments during storm flows could be routed through the reservoir to restore a more natural sediment transport system and maintain reservoir capacity</p> |
| 16 | <u>Big Dalton Spreading Grounds Improvements</u> | Los Angeles County Flood Control District | <p>The proposed project will modify and motorize the diversion box at Big Dalton Spreading Grounds to better control flows taken into the facility. The spreading basins will be reconfigured to increase percolation rates and storage capacity. An intake will be constructed from Little Dalton Diversion Channel so that additional storm flows can be diverted to the facility. A proposed outlet from Metropolitan Water District's PM-26 imported water line to the Little Dalton Diversion channel will enable imported water to be recharged at the spreading grounds.</p> |

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| 17 | <u>Big Rock Bypass</u> | Los Angeles County Waterworks District No. 29 | The project consists of constructing three 18-inch diameter bypass water pipelines approximately 1,500 feet in length within the areas of active landslides along Pacific Coast Highway. This bypass will serve as a permanent replacement of an existing 30-inch diameter water pipeline that has experienced significant breaks resulting in large water loss. The proposed pipeline will be raised to a shallow trench and protected by a reinforced concrete box covered with steel plates to provide quick access if any leakage occurs. In addition, 18-inch Flexible Expansion Joints will also be installed at several locations with the areas of the active landslides to prevent damage or rupture of pipelines from ground movement. |
| 18 | <u>Big Tujunga Dam Spillway Dam</u> | Los Angeles County Flood Control District | Construction of a dam within the spillway at Big Tujunga Dam to increase the maximum storage capacity of the reservoir by approximately 705 acre-feet. |
| 19 | <u>Big Tujunga Reservoir Sediment Removal</u> | Los Angeles County Flood Control District | The 2009 Station Fire was the largest fire in Angeles National Forest recorded history and burned over 160,000 acres before containment on October 16, 2009. Approximately 87% of the watershed tributary to Big Tujunga Reservoir was affected. On average, a watershed will take five years or more to recover from a forest fire burn. During this time, increased amounts of debris production are anticipated from the denuded ground surface. Based on the 2010-11 storm season surveys, the total amount of sediment in the Big Tujunga Reservoir is approximately 2 million cubic yards. The County of Los Angeles Department of Public Works on behalf of the Los Angeles County Flood Control District proposes a sediment removal project to permanently remove up to 4.4 mcy of sediment from Big Tujunga Reservoir. Sediment will be excavated and transported using low emission trucks or conveyor belt to Maple Canyon Sediment Placement Site adjacent to Big Tujunga Dam. The project will be completed over four years starting in the sum |
| 20 | <u>Boulevard Pit Stormwater Capture Project</u> | LADWP | Acquire and develop Boulevard Pit into a multi-use retention and recharge facility to enhance stormwater conservation. |
| 21 | <u>Branford Spreading Basin Cleanout and Pump</u> | Los Angeles County Flood Control District | Branford Spreading Ground has very low percolation rates compared to the Tujunga Spreading Ground directly across the Tujunga Wash Channel. This project will install a pump from Branford Spreading Ground to direct water into the Tujunga Spreading Ground leading to more groundwater recharge. In addition, the project will clean out the clogging layer at the bottom of basin, which will also improve percolation rates. |

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| 22 | <u>Broadway Neighborhood Stormwater Greenway Project</u> | City of Los Angeles Bureau of Sanitation | In partnership with Water Replenishment District of Southern California and it's "Regional and Distributed Stormwater Capture Feasibility Study," the proposed project will design and implement stormwater Best Management Practices (BMPs) in the City of Los Angeles with the primary goals of TMDL compliance and stormwater infiltration. Three levels of BMPs will be developed; local parcel based Low Impact Development (LID) for 8 acres (60 residential parcels), neighborhood scale LID for 12 acres (3 residential streets and 2 blocks of commercial streets), and a sub-regional scale facility for 30 acres of mixed land uses. The local and neighborhood BMPs will capture and infiltrate all dry-weather flow and up to the ¼ inch storm. The sub regional BMP will capture up to the 2 inch storm for 30 acres. The sub regional BMP will also receive dry-weather flows from 228 acres of mixed land uses. Designs will be standardized to remote widespread implementation. |
| 23 | <u>Bull Creek Stormwater Capture</u> | Los Angeles County Flood Control District | Historical records show that an annual average of 625 acre-feet of water passes through Bull Creek. All flows from Bull Creek are lost to the ocean via the Los Angeles River. This project proposes conserving the lost water by diverting flows from the new LADWP facility using a rubber dam and conveying flows through a pipeline to Pacoima Spreading Grounds where it would be captured and recharge the local aquifer. |
| 24 | <u>Bull Creek Los Angeles Reservoir Water Quality Improvement Project</u> | LADWP | Plan, design, and construct stormwater conveyance facilities for compliance with the Enhanced Surface Water Treatment Rule. Facilities will be designed according to standards adopted by Department of Water Resources, Division of Safety of Dams. Improvements include widening a portion of the Bull Creek Extension Channel, realigning a section downstream of the widening, construction of a new diversion structure and overflow structure, and improvements to inlet structures. The Los Angeles Reservoir spillway will be removed from service. Proposed design facilitates a future stormwater capture program. |
| 25 | <u>Burbank Partnership Water Recycling Project</u> | LADWP | The Burbank Partnership Water Recycling Project involves the planning, design, and construction of approximately 27,000 feet of recycled water pipelines in the North Hollywood area. The three individual segments that comprise the project are the Chandler Boulevard Bike Path segment, the Whitnall Dog Park segment, and the North Hollywood Park segment. These segments will connect to Burbank's recycled water distribution system at three separate connection points and will be served by recycled water treated at the Burbank Water Reclamation Plant. This project is expected to offset up to 285 AFY of potable water with recycled water. |

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| <p>26</p> | <p><u>Burbank Water and Power Recycled Water System Expansion, Phase 3</u></p> | <p>City of Burbank Water and Power</p> | <p>The third phase of the City of Burbank's recent recycled water system expansion. As a result of previous phases, over 20 miles of recycled water pipelines have been installed resulting in the distribution of over 2,300 AF of recycled water annually; amounting to 13% of the City's water demand by the end of 2014. The City will continue expanding its recycled water distribution to offset potable water use in this phase by constructing two new recycled water pipelines known as, the LA Equestrian Center (LAEC) and the Naomi pipelines. The LAEC is located on the borders of the cities of Burbank and Los Angeles consisting of landscape areas, stables, offices and corrals; the latter requiring dust control with water trucks. The Naomi pipeline would primarily provide recycled water to a very large commercial data center and smaller customers. Completion of these pipelines will increase recycled water distribution by an estimated 61 AFY, resulting in a direct and immediate potable water savings of 61 AF annually.</p> |
| <p>27</p> | <p><u>C Marvin Brewer Desalter Brackish Groundwater Facility Expansion</u></p> | <p>West Basin Municipal Water District</p> | <p>The Desalter currently has the capacity to extract up to 2,000 acre-feet annually of brackish water. In 2003 the old wells at the site were decommissioned and construction began in 2005 for the first replacement well. The facility became operational in 2006 at a reduced capacity using the new well and the original RO unit. The facility has not been operating to its full capacity since it came online again in 2007 because of water quality issues. Funding is also needed to correct the water quality problems in order to get the facility to its full operating capacity. The proposed 500 AFY capacity expansion will allow the facility to become operational at its full capacity of 2,000 acre-feet per year. The site is already owned by California Water Service Co. and leased by West Basin and is developed as a desalting facility. The expansion will include the installation of a new production well, and the addition of an acid pretreatment unit and a reverse osmosis treatment unit on the existing site.</p> |
| <p>28</p> | <p><u>CITYWIDE STORM DRAIN CATCH BASIN CURB SCREENS</u></p> | <p>CITY of CALABASAS</p> | <p>Installation of storm drain catch basin curb screens at all applicable locations citywide. These screens are the stainless variety approved curb by Los Angeles County. The purpose of the curb screens is to stop trash from entering the catch basins which eventually discharge into both the Los Angeles River and Malibu Creek watersheds. By implementing this project, City of Calabasas will be in compliance with the Trash TMDL both for LA River and Malibu Creek watersheds. Based on studies done, reduction in trash and debris loadings will also reduce Bacterial and sediment loading in the watershed. By implementing the project, disadvantaged communities downstream of Calabasas in Los Angeles River will benefit from cleaner water. The scope work consists of measuring all catch basin openings, drafting RFP with detailed specifications, soliciting proposals from the list of Los Angeles County's approved vendors, negotiating contract, implementation/construction, monitoring and reporting.</p> |

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| 29 | <u>Caballero Creek & Los Angeles River Confluence Park</u> | Mountains Recreation and Conservation Authority | <p>The project will convert a 1.55 acre vacant parcel at the confluence of the Los Angeles River and Caballero Creek into a publicly-accessible natural park with habitat restoration, paths, site furnishings, water quality improvements, waterfront-access, and educational amenities. The design utilizes an innovative mixes low-tech mechanical and biological methods to filter and infiltrate storm waters increases regional water quality. The project creates a multi-benefit park that provides ecosystem services as well as cultural services, like recreation and eco-tourism. The project concept was developed in partnership with the City and County of Los Angeles who have committed to retain ownership, maintenance and operation responsibilities while allowing the Mountains Recreation and Conservation Authority (MRCA) to oversee design and construction. Nearby Reseda High School will monitor the project and use it for hands-on learning and community service opportunities.</p> |
| 30 | <u>Camino San Rafael Recycled Water Project</u> | Glendale Water & Power | <p>This project will consist of design and construction of approximately 8300 feet & 6000 feet of new 4"and 8" PVC recycled water pipeline, respectively. The project also consists of installing a two booster stations. This project will extend Glendale's recycled water distribution system to provide recycled water for common area irrigation to the Camino San Rafael Homes. This project will offset up to 90 AFY of potable water with recycled water. This will reduce the City's demand on potable water.</p> |
| 31 | <u>Carson Regional Water Recycling Project</u> | West Basin Municipal Water District | <p>The Carson Regional Water Recycling Expansion Project includes the expansion of the existing recycled water treatment facility and the construction of several laterals. This is a new demand on the system and will require expansion of treatment process capacity and conveyance to include; lateral pipelines, pump stations, treatment units, storage tanks, and waste management facilities. The BP Refinery requires single-pass reverse osmosis treatment units. BP Refinery is estimating a need of 2,100 acre-feet per year (AFY). The project will be further expanded to serve customers within the City of Los Angeles' jurisdiction for the refineries in the port area. The City will need recycled water to satisfy a use of 9,300 AFY. The City is in the preliminary design stage.</p> |

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| 32 | <u>Chase Street Stormwater Greenway</u> | City of Los Angeles Bureau of Sanitation, Watershed Protection Division | The Project will provide a street-end interpretive area on Bull Creek at Chase Street, and install a Stormwater Greenway along Chase Street from the eastern street end on the north side right-of-way to Hayvenhurst, and on the north and south right-of-way to Gothic. Vegetated planters in the parkways will capture and infiltrate street runoff, and will provide storm water filtration, and tree shading. The Bull Creek street-end will feature a native landscape as habitat and a recreational rest stop along the channel, and will provide an interpretive site for wildlife selected and supported by the specific native planting used in the project. A channel diversion from Bull Creek, with a pre-filter and lift station, will transfer runoff through a pipeline to a local Sod Farm where it will be used to irrigate up to 30-commercial acres. The project will integrate water conservation goals (LADWP), Storm water objectives (BOS), Economic enhancements to city property (LAWA), & public health and recreation benefits. |
| 33 | <u>Chemical Study - Rio Hondo</u> | Los Angeles County Flood Control District | This project will install a chemical treatment system at the Rio Hondo Coastal Spreading Grounds to remove sediment fines from the water and improve the percolation rates. A Percolation Optimization Investigation (POI) report was done by Montgomery Watson Harza (MWH) in 2003 to evaluate the County's spreading grounds and the impact of suspended solids on percolation rates. The report made a number of recommendations and the recommendations will be implemented at the Rio Hondo flood control facility. The project will install a coagulant chemical feeder and mixer at the grounds intake. This will allow the silt in the stormwater to coagulate and settle prior the cleaner water to flowing into spreading grounds. When this occurs, the spreading grounds will be able to percolate more water, thus conserving and recharging more groundwater. |
| 34 | <u>Chevy Oaks Recycled Water Project</u> | Glendale Water & Power | This project will consist of design and construction of approximately 920 feet, 1900 feet & 2100 feet of new 4", 8" and 12" PVC recycled water pipeline, respectively. The project also consists of installing a small booster station. This project will extend Glendale's recycled water distribution system to provide recycled water for irrigation to the Chevy Oaks Homes. This project will offset up to 30 AFY of potable water with recycled water. This will reduce the City's demand on potable water. |
| 35 | <u>City of Carson Rain Barrel Give Away Phase II</u> | City of Carson, Development Services Department, Engineering Services Division | At completion of a prior grant, a modest amount of money remained unused. With the acquiescence of the granting agency, the City of Carson purchased 16 rain barrels and set up a website lottery system in order to award them to residents. The response was overwhelming and with no advertising over 100 contestants were disappointed to not receive a rain barrel. This proposal would lead to the purchase of an additional 1,000 rainbarrels (depending on cost and grant amount) to restock the lottery reserves. Advertising and management of the program would be provided as part of the City of Carson grant match. More information on Fiskar Rain Barrels is available at http://www2.fiskars.com/Products/Yard-and-Garden/Rain-Barrel-Systems |

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| 36 | <u>City of Monrovia Fire Department - Training Center Water Recycling Project</u> | Upper San Gabriel Valley Municipal Water District | Upper District in cooperation with the City and Fire Department of Monrovia are submitting this project incorporating both dry and wet weather runoff capture, treatment and storage for the new Regional Training Center. Once collected, the fire training water and the 85th percentile of a 24 hour storm event (as required by the City's MS4 permit) will be treated before being discharged into storage holding tanks which will store the treated water for future reuse by the training facility. The objective is to offset the use of potable water at the facility, eliminate storm water discharge and capture wet-weather storm water runoff. Finally, if the wet-weather event is larger than the 85th percentile, then provisions are being considered to treat as much of the additional wet-weather storm water runoff via a natural infiltration gallery (bioswale) before being discharged into the City's storm water system. |
| 37 | <u>Cogswell Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | This project will consist of refurbishment and upgrades to the outlet works, tunnels, and repair of various facility components at Cogswell Dam. The project will increase operational effectiveness for flood control and water conservation. The project will involve: a complete overhaul of the dam's entire inlet/outlet works; upgrade on the electrical control equipment; repair of downstream facilities; structural repairs on the upstream facing slab; security upgrades; and other various repairs essential for maintaining and operating a flood control facility. The overall project intent is to improve Cogswell Dam for maintaining dam safety, increased efficiency and reliability of flood control operations, and enhancement of water conservation efforts. |
| 38 | <u>Cold Creek Diamond Acquisition</u> | Mountains Restoration Trust | The project will acquire 4.87 acres (APN 4455-021-040) of natural undisturbed open space within the existing 1348-acre Cold Creek Preserve in the Santa Monica Mountains National Recreation Area. The acquisition is part of the state-funded Cold Creek Restoration Plan designed to acquire 539.06 acres to protect the wild and scenic, perennial Cold Creek, the habitat linkage between Topanga State Park and Malibu Creek State Park, the values of Los Angeles County's Significant Ecological Area #9, and a future venue for environmental education, research, and recreation. The area includes significant oak, sycamore, and willow communities, supports a range of wildlife including mountain lion, gray fox and raptors. The pure waters once supported the federally-listed endangered southern steelhead trout. |
| 39 | <u>Conservation Budget Based Tiered Rate Structure</u> | West Basin Municipal Water District | This project helps our customer agencies to develop a water conservation, budget-based rate structure for their customers. The project is beneficial to West Basin's cities and retail water agencies because it provides a pricing structure that will incentivizes its customers to conserve water. This pricing method has been used in other parts of the State and has been successful at reducing water usage and regarding those who do so with lower rates on their water bill. |

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| 40 | <u>Conversion of 237th Street Sump Tributary to Machado Lakes for Nutrient and Toxics TMDL BMPs</u> | City of Torrance | <p>This project would convert the 237th St. Sump (4.5 acre-feet) into a retention/infiltration basin BMP for Toxics and Nutrient TMDL compliance and provide open spaces for wildlife habitat. This project would install diversion structures that would divert the first 4.5 acre-feet of stormwater from a 71 acre tributary area away from the system tributary to Machado Lake (Wilmington Drain) to be retained and infiltrated in this basin. Trash screens would be installed at the catch basin in the watershed by a separate project. During the dry season the basin would remain an open space for wild life and retain urban run-off and nutrients from 71 acres. By diverting stormwater back into this basin, the City and County storm drain systems would have more capacity during rain events. This project would also increase groundwater recharge.</p> |
| 41 | <u>Creek Crossings Repairs</u> | Los Angeles County Waterworks District No. 29 | <p>This project consists of repairing corroded and deteriorated sections of aboveground pipeline and developing a Corrosion Monitoring, Control, and Maintenance Program. The Waterworks District 29 transmission water pipeline runs along the Pacific Coast Highway in Malibu. The proposed pipeline repairs are located at eight creek crossings attached to bridge structures. The project will significantly prevent future leaks and breaks in the main transmission pipeline which is the primary source of water supply for Malibu and Topanga. The development of a maintenance program is essential to maintaining water supply reliability for the region.</p> |
| 42 | <u>Deauville Distributed Water Reuse Project</u> | City of Santa Monica | <p>The project would harvest stormwater and brackish groundwater for high level treatment and non-potable use around the City, replacing the use of imported potable water. The City would install a 1.3 million gallon storage tank next to the Santa Monica Pier, Deauville lot, to harvest stormwater from the Pier sub-watershed during rain events and brackish groundwater during dry periods. The project would have an optional overflow to an infiltration gallery. A saline extraction well would be installed in sand next to the storage tank. The project would install pre-treatment catch basin inserts in the drainage area or a centralized hydrodynamic separator-screening device to remove trash and debris from stormwater. Modular nanofiltration (NF) and a saltwater reverse osmosis (RO) treatment systems at the site would treat these stored local water resources to high quality for various uses around the City in the existing recycled water system. All concentrated brine by-product would be sent to the sanitary sewer.</p> |
| 43 | <u>Decker Canyon Recycled Water System Extension</u> | Las Virgenes Municipal Water District | <p>The Decker Canyon recycled water pump station, pipeline, and tank would furnish recycled water primarily to Malibu Country Club Golf Course and Tract 47962-Sycamore Canyon Estates near the pump station location and other nearby ranchettes. The project would comprise a high-lift pump station, ~23,000 linear feet of pipeline along Westlake Blvd and Decker Canyon Rd, and a 60-foot diameter concrete tank near the corner of Decker Canyon Rd and Mulholland Hwy. Approximately 229 AF of recycled water per year would be used by this project.</p> |

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| <p>44</p> | <p><u>Del Rey Lagoon Water Quality Improvement Project</u></p> | <p>City of Los Angeles Bureau of Sanitation Watershed Protection Division</p> | <p>The Del Rey Lagoon Water Quality Improvement Project proposes to improve water quality by reducing the source and amount of fecal indicator bacteria in the Del Rey Lagoon and surrounding waterbodies such as the Santa Monica Bay and Dockweiler Beach. Project components include stormdrain systems, vegetated swales, irrigation system retrofit, and drainage modifications. Education and outreach to the public will also be included in the project scope. The vegetated swales are designed to capture, retain, and treat runoff from the adjacent residential, transportation, and landscaped area during dry weather and partially during wet weather. Existing irrigation system will be retrofitted with a smart irrigation system to reduce excessive irrigation runoff, thereby conserving water and reducing flow. Catch basins and storm drains will be installed to capture and divert excess wet-weather flow into the sewer system. Project also includes a nature viewing deck and educational displays that explain local flora-fauna.</p> |
| <p>45</p> | <p><u>Demonstration Gardens at Los Angeles County Fire Department Stations</u></p> | <p>West Basin Municipal Water District</p> | <p>This project involves the installation of drought-tolerant demonstration gardens at a minimum of five fire stations throughout the West Basin service area. These gardens will replace turf and/or concrete areas that are directly in front of the fire stations in order to provide a maximum visibility to the public. The gardens will be utilizing drought-tolerant and/or native plants that will be designed by professional landscape designers that specialize in climate-appropriate plans and trees. The main goal is to provide water conservation and runoff reduction measures and secondarily to educate the public about the measures so that they can create these spaces at their own homes. West Basin strives to reduce demands by implementing conservation and education programs throughout the communities it serves. This project aims to continue implementing outdoor water conservation/education programs to influence the public to create these spaces in their own homes.</p> |
| <p>46</p> | <p><u>Devil's Gate Dam and Reservoir Water Conservation</u></p> | <p>Los Angeles County Flood Control District</p> | <p>This project proposes to conserve stormwater by holding a reservoir pool behind Devil's Gate Dam and diverting the water to Eaton Wash Dam and Eaton Wash Spreading Grounds for poststorm groundwater recharge. A pump will be installed in the Devil's Gate Dam reservoir and water will be pumped out and conveyed through over 26,000 feet of pipeline to Eaton Wash Dam where it can be held for recharge at downstream spreading ground facilities.</p> |

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| <p>47</p> | <p><u>Devil's Gate Reservoir Sediment Removal and Management Project</u></p> | <p>Los Angeles County Flood Control District</p> | <p>The 2009 Station Fire was the largest fire in Angeles National Forest recorded history and burned over 160,000 acres in the San Gabriel Mountains. Approximately 68% of the watershed tributary to Devil's Gate Reservoir was burned and as a result of the storms that occurred in the two wet seasons after the fire, sediment levels in the reservoir increased by more than one million cubic yards. The County of Los Angeles Department of Public Works on behalf of the Los Angeles County Flood Control District is planning a sediment removal project of up to 4 million cubic yards. A sediment removal project from behind Devil's Gate Dam is vital to the health of the Arroyo Seco flood control system. The goal of this project is to restore flood control capacity and establish a reservoir configuration more suitable for routine maintenance activities. The project will last approximately 5 years with construction starting in 2014.</p> |
| <p>48</p> | <p><u>Dominguez Channel Greenway Phase III</u></p> | <p>Los Angeles County Flood Control District</p> | <p>The project will consist of development of a native landscaped greenway and bikeway/pedestrian trail along the north side of the Dominguez Channel, between Vermont Av and Normandie Av. The project will include the following: access/maintenance road improvements for the new/improved bikeway; AC repair and replacement, slurry seal, American Disability Act (ADA) access ramps and bikeway/pedestrian signage and striping. Landscaping improvements include landscaping using native and drought-tolerant plants, irrigation, as-needed fencing repair/replacement. Educational/interpretive signage will also be included along the bikeway/pedestrian trail. A study is also recommended to consider additional pedestrian crosswalks with street lamp lighting for added safety. The project is currently on hold until the LACFCD completes a study to address deficiencies in its levees.</p> |
| <p>49</p> | <p><u>Dominguez Channel Trash Reduction Via ARS Installation in the City of Carson, CA</u></p> | <p>City of Carson, Development Services Department, Engineering Services Division</p> | <p>This project would install Automatic Retracting Screens (ARS) in the 1800 Storm Drain Catch Basins in the City of Carson. The proponents favor ARS to collect trash at street level where the trash can be quickly and cost effectively collected weekly by the existing City Street Sweeping Contractor and eliminates the need for other more costly and difficult to maintain downstream trash control systems. This project anticipates the continuing development of local and state waterway trash control efforts and alleviates the need to develop these expensive federal, state and local regulatory mandates. In comparison to other "downstream" trash control systems, the maintenance status of ARS is easily assessed and visible to the public, which is then able to report those locations where maintenance is warranted. Since ARS systems are located in the street sweeper path, maintenance (trash collection) occurs weekly, the trash stays dry and is less subject to the degradation that generates other pollutants (bacteria).</p> |

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| 50 | <u>Dominguez Gap Spreading Grounds West Basin Percolation Enhancement</u> | Los Angeles County Flood Control District | The proposed project will increase the percolation within the spreading grounds facility in order to increase groundwater recharge. The preliminary scope includes removing between 5 to 10-feet of clay sediment or installing vertical trenches/drains through the poorly draining strata in the facility's west basin. Preliminary studies have been conducted including boring samples which will be used to further develop conceptual plans and estimate project benefits. |
| 51 | <u>Duck Farm River Parkway Phase 1 - Water Enhancement Project</u> | Watershed Conservation Authority | The Duck Farm River Park, once a natural floodplain, has been disconnected from the natural processes of the river for decades as a result of urbanization & flood management. The Project reintroduces natural systems through a riparian/pocket wetland/seasonal streambed that improves both habitat and collect, filter & infiltrate stormwater flows onsite, as well as stormwater from the adjacent freeway in collaboration w/Caltrans. The project will transition irrigation source (annually forecasted to require 19M gallons) from imported, highly processed potable water to either local groundwater or recycled water as its source of supply. The public will benefit by being reconnected to nature, the river, & from educational & interpretive programming possible at the site. This change in supply will reduce greenhouse gases & the parks carbon footprint. Outdoor classroom & interactive educational experiences with children will inspire local youth to learn more about our watershed, water conservation & sustainability |
| 52 | <u>Eaton Spreading Grounds Intake Improvements</u> | Los Angeles County Flood Control District | The project will increase the intake and storage capacity of the Eaton Wash Spreading Grounds facility. This will improve the facility's ability to recharge storm water into the groundwater basin, thus greatly increasing the sustainable local groundwater supply that is vital for the region. Los Angeles County Flood Control District will replace the vehicle access slab with a metal grate over the spreading grounds drop intake channel and replace the current diversion flashboards with an inflatable gate within the intake channel. These improvements in Eaton Wash Channel will better direct flows into Eaton Wash Spreading Grounds, thereby increasing its intake capacity. Basin 1 will be enlarged to increase the facility's storage capacity. The project will include improvements to the property along Sierra Madre Boulevard that will significantly improve the sustainability, aesthetics, and safety of the public walkway and street view. Two driveway entrances will be improved by increasing the gate set-back fu |
| 53 | <u>Eaton Wash Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | The dam outlet works rehabilitation project involves the removal of the existing outlet tower and gate house. Once these major components are removed, construction of a gate valve, debris racks, hydraulic power system with a block house, control systems, modification of the outlet works structure, and rehabilitation of the gate valves will commence. It will provide necessary erosion protection measures and improve water quality during low-flow releases from the dam. |

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| 54 | <u>Elysian Reservoir Water Quality Improvement Project</u> | LADWP | LADWP is planning to cover the existing Elysian Reservoir in order to meet US EPA water quality regulations. In April 2012, the Board of Water & Power Commissioners certified the Environmental Impact Report and approved the floating cover alternative. The project will install a flexible membrane floating cover over the existing water surface. Also included are supporting infrastructure (piping, valves, liner) and site improvements (roadway paving, fencing). The reservoir will operate in the same manner, providing potable storage for the distribution system. Construction is anticipated to being by 2015. In conjunction with the project, a Community Parks Fund was established by the Board of Commissioners. The fund is to be used for unspecified public purposes related to community parks. Best efforts will be made to locate enhancements primarily in the Elysian Park area, working together with the community and other City of Los Angeles agencies. |
| 55 | <u>Encinal Emergency Connection</u> | Los Angeles County Waterworks District No. 29 | The project consists of adding a new emergency water source to supply Waterworks District No. 29 through a new interconnection along Encinal Canyon Road at the District boundary with Las Virgenes Municipal Water District (LVMWD). This interconnection would bring water from Metropolitan Water District of Southern California through LVMWD to provide additional supply to the District during emergencies. |
| 56 | <u>Foothill Municipal Water District Recycled Water Project</u> | Foothill Municipal Water District | Three hydrologic areas were studied for the development of satellite recycled water facilities. Foothill Municipal Water District (FMWD) is pursuing the construction of one facility near Berkshire Place in La Canada at this time. This project will treat wastewater using a membrane bioreactor and recharge the product into the groundwater basin using infiltration galleries underneath athletic fields for multi-beneficial uses. Cal Poly Pomona has partnered with FMWD and is developing a model that will also capture stormwater for recharge using the same infiltration galleries. A conservation and education component has also been added. Landscaping will be done to showcase drought tolerant plants at both the MBR site and school site. Tours will be available so that students may learn about stormwater capture, groundwater, recycled water, conservation and the watershed since the Arroyo Seco and Hahamongna Park are across the street. This 0.250 MGD plant will save enough energy annually for 80 homes in So. Cal. |
| 57 | <u>Freeway Runoff Infiltration Demonstration Project</u> | City of Santa Monica | Divert runoff from a section of the Santa Monica Freeway within the City of Santa Monica, treat and infiltrate within an area near the freeway, either a landscaped area or parking lot. The infiltration zones will be augered, if necessary to by-pass poor permeable soils. There will be pre-treatment before infiltration to remove trash, oil/grease, sediments. It will be a passive system, i.e. gravity-fed and low into the system. The treatment-infiltration areas will be areas either already with a storm drain in the area, or the creation of new ones to harvest the runoff. The goal will be to keep runoff out of the existing storm drains and out of the storm drain system. |

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| 58 | <u>Glen Oaks Storm Water Capture Project</u> | Los Angeles Beautification Team | The Prop O funded phase I, the installation of six bio-swales and 4 dry wells. This watershed in an average rainfall year brings 300 acre feet of water to Glen Oaks Blvd. Phase I was completed in January 2014 and is currently capturing an estimated 30 acre feet per year leaving approximately 270 acre feet available for storm water capture. Phase II will consist of an additional eight dry wells for an estimated \$625,000, plus the cost of City Services (Design fees, permits and over site), that will capture an additional 40 to 45 acre feet annually. |
| 59 | <u>Glendale Narrows Habitat Enhancement Project</u> | Council for Watershed Health | The Glendale Narrows Riverwalk will provide approximately one mile of multi-use recreation along the Los Angeles River. There are several invasive plant species that are prevalent adjacent to the Riverwalk in the Glendale Narrows area of the Los Angeles River. These invasive plant infestations jeopardize the improvements to water quality and degrade habitat for native aquatic, avian, reptile, amphibian, and invertebrate species. In collaboration with the City of Glendale Community Services & Parks Department, the Council for Watershed Health (Council) proposes to develop and manage a 3-4 year restoration project to map, control, and monitor invasive arundo and invasive palm trees in the Riverwalk project area in the Glendale Narrows sections of the Los Angeles River. A native plant propagation and replanting effort is also proposed to reestablish riparian plants. |
| 60 | <u>Goldsworthy Groundwater Desalter Expansion</u> | City of Torrance | The Goldsworthy Desalter (Desalter) treats water from the saline plume in the West Coast Groundwater Basin for drinking water. The brackish water is treated to meet or exceed municipal drinking water standards through the use of a reverse osmosis system. The existing Desalter produces approximately 2,000 acre-feet of potable drinking water per year. When the Desalter was originally constructed in 2002, it was designed for expansion to over 5000 acre-feet per year of drinking water. In 2012 the Water Replenishment District of Southern California had a Feasibility Study for the Expansion of Desalter prepared for and approved by the U. S. Bureau of Reclamation. The expansion would involve the installation of additional reverse osmosis treatment units, construction of two additional source water wells, transmission mains and related appurtenance. The project also diverts waste water away from Santa Monica Bay where discharges cause TMDL violations for bacteria. |

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| 61 | <u>Groundwater Reliability Improvement Project (GRIP)</u> | Water Replenishment District of Southern California | The overarching goal of the GRIP Recycled Water Project is to offset the current use of imported water by providing up to 21,000 acre-feet per year (AFY) of recycled water as a reliable supply source for groundwater basin replenishment via the Montebello Forebay within a reasonable timeframe. The source for the recycled water will be the Los Angeles County Sanitation Districts' San Jose Creek Water Reclamation Plant (SJCWRP). Tertiary treated recycled water, advanced treated recycled water (microfiltration, reverse osmosis and advanced oxidation), or a combination of the two will be conveyed from the SJCWRP via an existing pipeline or possibly a new pipeline for recharge in the Central Groundwater Basin through the Montebello Forebay Spreading Grounds or potentially a new injection well field. |
| 62 | <u>Groundwater System Improvement Study</u> | LADWP | The purpose of the Groundwater System Improvement Study (GSIS) is to perform an independent study to identify, characterize, and evaluate emerging water quality constituents for the San Fernando Basin (SFB). This will include a comprehensive analysis that will provide recommendations in developing short and long-term projects, including the design and construction of groundwater treatment facilities, to maximize the use of the groundwater supply in the SFB. As a part of the GSIS, the LADWP will be drilling approximately 26 new groundwater monitoring wells, and perform short-term monitoring of existing and new wells, in order to obtain supplemental water quality data necessary for planning the groundwater treatment facilities in the SFB. |
| 63 | <u>Groundwater Treatment Facilities</u> | LADWP | Design and construction of groundwater treatment facilities in North Hollywood, Rinaldi-Toluca and Tujunga Wellfields in the San Fernando Basin (SFB), with a treatment capacity of 122,900 acre-feet per year. |
| 64 | <u>Hansen Dam Golf Course Water Recycling Project</u> | LADWP | Construct 4,500 feet of 20" pipeline, pumping station and pipe support bridge to deliver recycled water from the Tillman Plant to the Hansen Dam Golf Course and other potential future users. Water will be pumped from the Hansen Tank. |
| 65 | <u>Hansen Dam Water Conservation Project</u> | Los Angeles County Flood Control District | Hansen Dam, situated adjacent to the Tujunga Wash Channel in the San Fernando Valley, is a vital part of flood control efforts in the Los Angeles River drainage basin. The primary purpose of Hansen Dam is flood control; however the opportunity exists to increase water conservation and water supply through increased water recharge upstream of the dam. The current operation of the dam allows for an average annual water conservation of 17,100 acre feet per year. The Water Conservation Project, which involves utilizing the existing Debris and Flood Control Pools for water conservation purposes by raising their respective maximum elevations to allow for additional water supply storage, would increase the dam's water conservation ability. This extra supply storage would allow for dam releases to downstream spreading grounds and other facilities to |
| 66 | <u>Hansen Dam Water Conservation and Supply</u> | The River Project | Change management regime of Hansen Dam to focus on water conservation by maintaining a water conservation pool within the reservoir during and subsequent to flood season. |

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| 67 | <u>Headworks East Reservoir</u> | LADWP | onstruction of a 110 MG buried reservoir along with a 4 MW hydroplant at the former Headworks Spreading Grounds to replace the storage capacity lost when Ivanhoe Reservoir is removed from service. Needed to bring the Water System into compliance with state and federal drinking water regulations by the regulatory deadline of November 2014 |
| 68 | <u>Headworks Ecosystem Restoration</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 69 | <u>Herondo Parking Lot and Beach Infiltration</u> | City of Redondo Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 70 | <u>Hoover, Toll, & Keppel School Recycled Water Project</u> | Glendale Water & Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 71 | <u>Humboldt Stormwater Greenway</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 72 | <u>Improvements to Entradero Storm Drain Channel for Storm Water Infiltration and Habitat Restoration</u> | City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6 | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 73 | <u>Improvements to San Gabriel River Diversion and San Gabriel River Water Committee Canal and Appurtenances</u> | Azusa Light and Water | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 74 | <u>Indirect Reuse Replenishment Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 75 | <u>Johnny Carson Park Stream Restoration and Park Revitalization</u> | City of Burbank | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 76 | <u>Jordan Downs Daylighting Study</u> | Multi-jurisdictional Agencies-LA City Housing and Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 77 | <u>LA River Sixth Street Bridge Greenway</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 78 | <u>LVMWD Woodland Hills Golf Course Recycled Water Pipeline Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 79 | <u>La Puente Valley County Water District Recycled Water Project</u> | Upper San Gabriel Valley Municipal Water District & La Puente Valley County Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 80 | <u>Landscape Irrigation Efficiency Program (LIEP)</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 81 | <u>Large Landscape Irrigation Survey and Retrofit Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 82 | <u>Las Virgenes Creek Bank Stabilization, Stream Restoration, Fish Migration Enhancement and Trail Connection</u> | City of Calabasas | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 83 | <u>Live Oak Dam Inlet/Outlet Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

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| 84 | <u>Live Oak Spreading Grounds Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 85 | <u>Lopez Spreading Grounds Improvement</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 86 | <u>Los Angeles River Center and Gardens Green Conference Center</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 87 | <u>Los Angeles River Natural Park</u> | City of Los Angeles Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 88 | <u>Los Angeles River Revitalization Master Plan 32 Mile Channel and Easement Greening</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 89 | <u>Los Angeles State Historic Park Water Recycling Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 90 | <u>Los Angeles-Burbank Groundwater System Interconnection</u> | LADWP / Burbank Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 91 | <u>Los Angeles-Glendale Groundwater System Interconnection</u> | LADWP / Glendale Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 92 | <u>Lower Los Angeles River Area Linear Water Storage Feasibility Study</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 93 | <u>Malibu Civic Center Area Recycled Water Delivery Project</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 94 | <u>Malibu Civic Center Linear Park Phase 3</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 95 | <u>Malibu Drought Preparedness Project: Graywater Reuse and Rainwater Harvesting</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 96 | <u>Malibu Equestrian Center Runoff BMPs</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 97 | <u>Malibu Rainwater Harvesting</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 98 | <u>Malibu Road/Malibu Colony Stormwater Management</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 99 | <u>Manhattan Strand 28th Street Subsurface Infiltration Trench</u> | City of Manhattan Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 100 | <u>Manhattan Wells Improvement</u> | LADWP / Water Replenishment District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 101 | <u>Marsh Park, Phase II</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 102 | <u>Medea Creek Restoration at Chumash Park</u> | City of Agoura Hills | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 103 | <u>Miller Pit Spreading Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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|-----|--|---|---|
| 104 | <u>MillerCoors Recycled Water Project</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 105 | <u>Milton Street Park and Green Street project - Ballona Creek</u> | Mountains Recreation and Conservation Authority | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 106 | <u>Mission Hills Green Belt</u> | The River Project | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 107 | <u>Mission Wells Improvement</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 108 | <u>North Hollywood Groundwater and Surface Water Benefits Study</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 109 | <u>North Hollywood Street Enhancement</u> | City of Los Angeles | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 110 | <u>North Hollywood Transmission Corridor Easement Stormwater Capture Study</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 111 | <u>North Santa Monica Bay Firecamp 13 LID Retrofit</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 112 | <u>North Santa Monica Bay Probation Camp Miller LID Retrofit</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 113 | <u>Northeast Gardena Recycled Water Line</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 114 | <u>Northeast Gardena Storm Water Quality Park, Recycled Water Line, and Landscape Makeover</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 115 | <u>Northeast Gardena Water and Landscape Makeover, Community Involvement Module</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 116 | <u>Oak Park Green Streets Urban Retrofit</u> | County of Ventura | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 117 | <u>Oak Park Medea Creek Restoration</u> | Mountains Restoration Trust | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 118 | <u>Ocean Friendly Garden (OFG) Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 119 | <u>Olive Pit Water Conservation Park</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 120 | <u>Oxford Retention Basin Multi-Use Enhancement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 121 | <u>Ozone Park Runoff Treatment and ReUse Project</u> | City of Santa Monica | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 122 | <u>Pacoima Dam Inlet/Outlet Works Rehabilitation Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 123 | <u>Pacoima Neighborhood Retrofit</u> | The River Project | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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|-----|---|--|---|
| 124 | <u>Pacoima Reservoir Sediment Removal</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 125 | <u>Pacoima Spreading Grounds Improvements</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 126 | <u>Palos Verdes Peninsula Satellite Facilities Study</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 127 | <u>Palos Verdes Recycled Water Lateral</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 128 | <u>Pasadena Recycled Water Project</u> | Pasadena Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 129 | <u>Peck Water Conservation Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 130 | <u>Puddingstone Diversion Dam Inlet/Outlet Works Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 131 | <u>Raw Wastewater Diversion to the City of Los Angeles</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 132 | <u>Recycled Water On-Site Retrofit Projects</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 133 | <u>Recycled Water Storage and Distribution System Expansion</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 134 | <u>Recycled Water Supply for Palos Verdes Golf Course</u> | City of Palos Verdes Estates | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 135 | <u>Recycled Water Turnouts</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 136 | <u>Regional Water Supply Reliability Program Phase 1b</u> | Puente Basin Water Agency | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 137 | <u>Residential Indoor Plumbing Retrofit Kits</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 138 | <u>Residential SMART Timer Retrofit "Plus" Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 139 | <u>Rio Hondo Coastal Basin Spreading Grounds - Sediment Removal from Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 140 | <u>Rockhaven Well</u> | Crescenta Valley Water District and Glendale Water and Power | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 141 | <u>SMURRF Distributed Water Reuse Project</u> | City of Santa Monica | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 142 | <u>San Gabriel Coastal Basin Spreading Grounds Improvement Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 143 | <u>San Gabriel Dam Penstock Coatings and Valve Repair</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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|-----|---|--|---|
| 144 | <u>San Gabriel Valley Water Recycling Project (Phase I - Rose Hills Expansion)</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 145 | <u>San Gabriel Valley Water Recycling Project - Membrane Bioreactor Treatment Plant</u> | Upper San Gabriel Valley Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 146 | <u>San Jose Creek Water Reclamation Plant East Process Optimization Project</u> | County Sanitation Districts of Los Angeles County | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 147 | <u>San Rafael Creek Restoration</u> | Arroyo Seco Foundation | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 148 | <u>San Ramon Canyon Stormwater Flood Reduction Project</u> | City of Rancho Palos Verdes | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 149 | <u>Santa Anita Dam Seismic Rehabilitation</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 150 | <u>Santa Fe Dam Water Conservation Pool</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 151 | <u>Santa Fe Spillway Basins</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 152 | <u>Sawpit Debris Dam Seismic Strengthening Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 153 | <u>Septic-To-Sewer Drinking Waterwell Protection Project</u> | City of Los Angeles Bureau of Sanitation/Wastewater Engineering Services Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 154 | <u>Sepulveda Basin Sports Complex Multi-Purpose Open Space Project</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 155 | <u>Sepulveda Basin Sports Complex Riparian Buffer</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 156 | <u>Sheldon Pit</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 157 | <u>Shoestring Park</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 158 | <u>Silver Lake Reservoir Bypass & Regulator Station</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 159 | <u>Six Basins and Puente Basin Integrated Water Supply Project</u> | Puente Basin Water Agency | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 160 | <u>South Coast Botanic Gardens</u> | Los Angeles County Department of Public Works | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 161 | <u>South El Monte Recycled Water Expansion Project Package 1</u> | Upper San Gabriel Valley Municipal Water District & San Gabriel Valley Water Company | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 162 | <u>South El Monte Recycled Water Expansion Project</u> | Upper San Gabriel Valley Municipal Water District & San Gabriel Valley Water Company | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

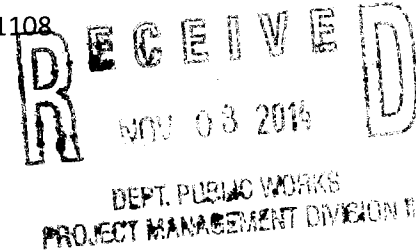
| | | | |
|-----|---|---|---|
| 163 | <u>South Los Angeles County Groundwater Pipeline Project</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 164 | <u>South Park Subsurface Infiltration Gallery</u> | City of Hermosa Beach | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 165 | <u>Southeast Gardena Recycled Water Line</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 166 | <u>Stormwater Diversion to Walnut Avenue Sump</u> | City of Torrance | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 167 | <u>Sun Valley Watershed Rory M. Shaw Wetlands Park Project (a.k.a. Strathern Wetlands Park)</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 168 | <u>Taylor Yard River Park Parcel G2</u> | City of Los Angeles, Bureau of Engineering | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 169 | <u>Terminal Island WRP Advanced Water Purification Facility and Distribution System Expansion Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 170 | <u>Terminal Island WRP Advanced Water Purification Facility and Distribution System Expansion</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 171 | <u>Thousand Oaks Boulevard and Westlake Elementary Recycled Water System Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 172 | <u>Topanga Connection Acquisition</u> | Mountains Restoration Trust | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 173 | <u>Transfer Station Cover Structure and Site Improvements</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 174 | <u>Triunfo Community Park and Evanstar Park Recycled Water Extension</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 175 | <u>Trunk Sewer Rehabilitation Projects</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 176 | <u>Turf's Up Water Use Efficiency Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 177 | <u>Valley Generating Station Stormwater Recharge Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 178 | <u>Van Ness and Slauson Infiltration Best Management Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 179 | <u>Verdugo Hills Stormwater Project</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 180 | <u>Vermont Avenue Storm Water Capture and Green Street Beautification Project</u> | City of Los Angeles, Bureau of Sanitation/Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

Attachment A

Reasonably Foreseeable Water Resources Projects in LA County - NOP: Draft PEIR, EWMP

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|-----|--|--|---|
| 181 | <u>Vermont Median Stormwater Park</u> | Council for Watershed Health | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 182 | <u>Victoria Street CSUDH Water Reuse Concept Proposal</u> | City of Carson | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 183 | <u>WRD Eco Gardener Program</u> | Water Replenishment District of Southern California | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 184 | <u>Walnut Creek Spreading Basin Improvements</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 185 | <u>Water Budget Based Rate Implementation</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 186 | <u>Water Star Schools Pilot Program</u> | West Basin Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 187 | <u>Well 15</u> | San Gabriel County Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 188 | <u>Well 7</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 189 | <u>Well No. 2 Rehabilitation</u> | City of Inglewood | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 190 | <u>West Coast Basin Barrier Project</u> | Los Angeles County Flood Control District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 191 | <u>Westlake Filtration Plant Enhancement & Backbone Improvements</u> | Las Virgenes Municipal Water District | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 192 | <u>Westward Beach Road Bioinfiltration Project</u> | City of Malibu | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 193 | <u>Westwood Neighborhood Greenway Project</u> | City of Los Angeles Bureau of Sanitation Watershed Protection Division | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 194 | <u>Whiting St. and El Segundo Blvd. Dry Weather Diversion Structure</u> | City of El Segundo | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |
| 195 | <u>Whitnall HWY Powerline Easement Stormwater Capture Project</u> | LADWP | Please refer to the Greater Los Angeles County Integrated Regional Water Management OPTI database for a project description |

2195 Sherwood Road
San Marino, CA 91108
October 28, 2014



Mr. Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803

Dear Mr. BeGell,

The purpose of this letter is to register my support for the restoration of Baldwin Lake as part of the Enhanced Watershed Management Plan (EWMP) for the Rio Hondo Watershed. The lake has experienced significant deterioration in recent decades as a consequence of surface run-off and its very future is very much at risk. Establishing the restoration of Baldwin Lake as a priority project as part of the EWMP will ensure its status as an important ecological and historic asset for generations to come.

Many thanks for attention to this matter.

Very truly yours,

A handwritten signature in black ink, appearing to be "G. L. Ball".

George L. Ball

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Tuesday, October 14, 2014 4:06 PM
To: Crumpacker, Andrea; David Pohl
Subject: FW: Restoration of Baldwin Lake

Comment for record

Gregg BeGell P E
Project Manager
Project Management Division II

From: Jane Florentinus [<mailto:java5@att.net>]
Sent: Tuesday, October 14, 2014 1:23 PM
To: Begell, Gregg - Consultant
Subject: Restoration of Baldwin Lake

Hello Mr. BeGell,

I am a volunteer and member of the Arboretum located in Arcadia and would like to express my concern for the poor condition of the lake. As a volunteer docent I provide guided walks through the gardens as well as the lake perimeter. Visitors are dismayed and saddened to see the decline of such a great and wonderful treasure in the midst of our urban lifestyle. To have open space in our crowded communities is truly a rarity and must be preserved for future generations to appreciate. Please take my request for restoring the lake to heart.

Thank you for reading my message.

Jane Florentinus
7140 Hidden Pine Drive
San Gabriel, CA 91775
Copy of email sent to G. Osmena

Paige Anderson

To: Tom Barnes
Subject: RE: Enhanced Watershed Management Plan

From: Jane Williams [<mailto:janeann64@yahoo.com>]
Sent: Wednesday, October 29, 2014 2:16 PM
To: Begell, Gregg - Consultant; Osmena, Genevieve
Subject: Enhanced Watershed Management Plan

As a volunteer at the L.A. County Arboretum, I would like to voice my support for the Enhanced Watershed Management Plan (EWMP) for the Rio Hondo Watershed, in which the Arboretum resides.

Every time I set foot in the Arboretum and look around me I see what can only be described as a treasure that belongs to the people of Los Angeles County. The condition of Baldwin Lake, the centerpiece around which the Arboretum exists is deplorable. It is in desperate need of restoration. Please do all that you can to see that this plan is instituted and that, through it, funding may be found to preserve Baldwin Lake.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Monday, September 29, 2014 4:41 PM
To: Crumpacker, Andrea; Tom Barnes; David Pohl
Subject: FW: Comments LACFCD SCH 2014081106 NOP Enhanced Watershed Management Programs due 9.29.2014

Here are a few good comments.

Are you filing all the comments into a file or folder such that the County can view all the comments in one place?

Gregg BeGell P E

Project Manager

Project Management Division II

From: Joyce Dillard [<mailto:dillardjoyce@yahoo.com>]
Sent: Monday, September 29, 2014 4:30 PM
To: Begell, Gregg - Consultant
Subject: Comments LACFCD SCH 2014081106 NOP Enhanced Watershed Management Programs due 9.29.2014

The Project Description is listed on the State Clearinghouse site as:

The development of the EWMP will involve the evaluation and selection of multiple watershed control measures or best management practices (BMP) types including non-structural and distributed, centralized and regional structural BMPs. These BMPs will be implemented to meet compliance goals and strategies under the 2014 MS4 Permit. Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage. These are three categories of structural BMPs, defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit.

Comments:

Watershed control measures seems to be the emphasis, but that term is not defined. It seems to exclude Watershed Protection Management Measure in areas applicable to the Coastal Zone Act Reauthorization Amendments which recognizes the impact of land-use activities on estuaries, beaches, marine resources and the ocean. *Economically feasible measures* and *greatest degree of pollutant reduction achievable* are terms from that Act.

All receiving waters should be identified as to type and federal jurisdiction.

The project only allows a build environment in a watershed that should have natural lands, ecosystems and normal watershed characteristics including ambient water quality standards and the Southern California Bight.

Antidegradation procedures should be addressed.

Alternatives should be presented for non-structural or structural projects.

Surrounding land uses and settings should be addressed as should settings such as air space in relationship to bird migratory patterns. Ambient air quality should be included.

Other public agencies should be included. US Army Corps of Engineers plays a role in navigable waters as does Caltrans in its responsibility for NPDES compliance.

Private parties, such as Lauren Bon (Water Rights Draft Permit A032212) should be included.

Baselines should be presented.

There should be consistency including applications of the various General Plan and its Elements across jurisdictions. Infrastructure should be addressed including but not limited to age, condition and operations and maintenance.

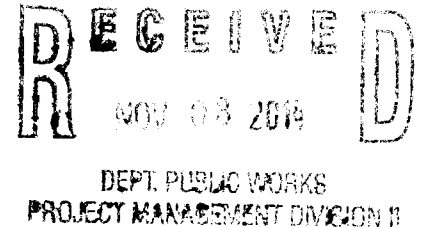
Since federal regulations are enforced involving Clean Water Act Navigable Waters, we question why there is no NEPA document preparation.

Joyce Dillard
P.O. Box 31377
Los Angeles, CA 90031

Kenneth D. Hill, Ph.D., P.E.
1994 Meadowbrook Rd.
Altadena, CA 91001-3404
(626) 797-2089

October 27, 2014

Mr. Gregg BeGell, P.E.
County of Los Angeles Department of Public Works
Project Management Division II
900 South Fremont, 5th Floor
Alhambra, CA 91803



Subject: Baldwin Lake Restoration
Los Angeles County Arboretum and Botanic Garden

Dear Mr. BeGell:

As president of the L.A. County Arboretum Foundation and as a concerned citizen, I encourage you to restore Baldwin Lake at the Arboretum. I am sure you are aware that the lake has environmental significance to Los Angeles County including impact on water conservation and reclamation, regional ecology, educational opportunity, and historical importance.

The restoration of Baldwin Lake, including improvements to its function as an urban runoff collection basin, should be considered as a high-priority project within the Rio Hondo Enhanced Watershed Management Plan.

Please note the following:

1. Baldwin Lake, with a current capacity of just under four million gallons, if returned to its original depth, would provide over twelve million gallons of storage capacity. With modification, it could also serve as a significant infiltration basin for aquifer recharge.
2. Tule Pond to the north, a canal roughly 600ft. in length, is the point of entry for the urban watershed, feeding directly into Baldwin Lake. Its size, shape and location offer great potential for water quality enhancement through modification as a bioswale.
3. The Lake is a key educational, scenic, wildlife, and historic resource serving over 330,000 visitors per year, including over 16,000 elementary school students on field trips. The project would provide an unrivaled opportunity to educate a broad public about regional water management, home and community water conservation, and the role of the Raymond Basin and other key water resources that sustain us.
4. The Los Angeles Arboretum Foundation, the County's non-profit partner in operating the Arboretum, stands ready to help leverage public dollars to realize the site's unique educational potential. **At our recent strategic planning meeting (October 25th) the restoration of Baldwin Lake was the top priority for the foundation over the next year.**

In sum, Baldwin Lake offers the ideal project to both enhance watershed function and serve the public with remarkable educational, ecological, and scenic benefits. It is an exceptionally strong candidate for inclusion in the Rio Hondo Enhanced Watershed Management Plan.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Hill". The signature is stylized with a long horizontal stroke and a small flourish at the end.

Kenneth D. Hill, Ph.D., P.E.

President, L.A. County Arboretum Foundation

GM II

Marsha Perez <marshaaperez@gmail.com>

Baldwin Lake

2 messages

Marsha Perez <marshaaperez@gmail.com>
To: gbegell@dwp.lacounty.gov

Thu, Oct 23, 2014 at 4:45

Dear Mr. BeGell,

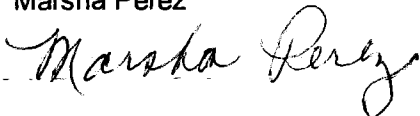
I am a frequent visitor to our LA County Arboretum. Here I can find beauty, contentment and sollice for my busy lifestyle.

Baldwin Lake is one of our families favorite visiting areas. Here we find the solitude and the different forms of wildfowl very enjoyable.

Lately we find that our lake is becoming a disaster! The water is murkey, the banks are crumbling and it has a swamp like look in certain areas.

On behalf of my family and many friends and visitors I implore you to take advantage of the opportunity now available to restore the health and beauty of our beloved lake.

Thank you for your consideration.
Sincerely,
Marsha Perez





MWD

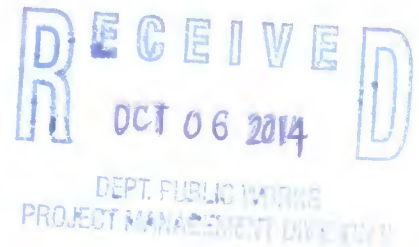
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

September 24, 2014

Via Mail

Mr. Gregg BeGell
Project Management Division II
Los Angeles County Flood Control District
900 South Fremont Avenue, 5th Floor
Alhambra, CA 91803



Dear Mr. BeGell:

Notice of Preparation for the Draft Program
Environmental Impact Report for the Enhanced Watershed Management Programs

The Metropolitan Water District of Southern California (Metropolitan) has reviewed the Notice of Preparation of a Draft Program Environmental Impact Report for Enhanced Watershed Management Programs (EWMPs) in Los Angeles County, California. The Los Angeles County Flood Control District (LACFCD) is the Lead Agency. An EWMP is one regulatory compliance mechanism for stormwater management under the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit adopted in 2012 (hereafter referred to as 2012 LA County MS4 Permit). The LACFCD proposes the development of 12 separate EWMPs in their respective watershed groups. The potential benefits from the EWMPs include the following: (1) improved water quality; (2) reduction in the impairment of water bodies for Designated Beneficial Uses; (3) promotion of water conservation and supply; (4) enhanced recreational opportunities; (4) support for public education opportunities; (5) improved local aesthetics; and (6) management of flood risks. This letter contains Metropolitan's comments to the proposed project as a potentially affected agency.

Metropolitan is a public agency and regional water wholesaler. It is comprised of 26 member public agencies serving approximately 18.4 million people in portions of six counties in Southern California, including Los Angeles County. Metropolitan's mission is to provide its 5,200-square-mile service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way. Metropolitan owns and operates numerous facilities within Los Angeles County including pipelines, a water treatment plant, power plants, dams, reservoirs, and other infrastructure associated with our water conveyance and distribution system.

The proposed project may impact Metropolitan's ability to dewater its pipelines. As part of a proactive maintenance and refurbishment program, Metropolitan periodically dewater its treated and raw water pipelines prior to inspection, maintenance, or repair activities. Such periodic inspections and repairs are essential to prevent pipe failures and subsequent damage from high-pressure water releases. These water discharges are short-term in nature and are acknowledged

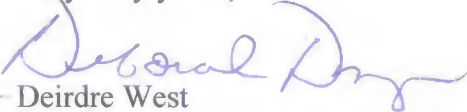
by the LA County Regional Water Quality Control Board as having a *de minimus*, or low-threat, impact to the environment and aquatic life. As such, these discharges are categorized as “Conditionally Exempt Essential Non-Storm Water Discharges” under the 2012 LA County MS4 Permit.

Metropolitan requests that LACFCD and its co-permittees continue to allow for periodic discharges by potable water systems into the MS4 under the proposed EWMPs. These “Conditionally Exempt Essential Non-Storm Water Discharges” are specifically called out as permissible under the 2012 LA County MS4 Permit. Per the conditions set forth in the 2012 LA County MS4 Permit, Metropolitan will continue to follow industry-accepted best management practices (BMPs) for its potable water system discharges. BMPs include, but are not limited to, the following: (a) advanced notification of LACFCD 72 hours prior to all planned discharges greater than 100,000 gallons and as soon as possible after an unplanned discharge greater than 100,000 gallons; (b) dechlorination; (c) monitoring for pollutants of concern; and (d) recordkeeping (e.g., date, time, and location of discharge, discharge pathway, receiving water, total number of gallons discharged, BMPs used, etc.).

Based on a review of the proposed project boundaries, the proposed project has potential to impact Metropolitan facilities. Metropolitan must be allowed to maintain its rights-of-way and requires unobstructed access to its facilities in order to maintain and repair its system. Any future design plans associated with this project should be submitted to the attention of Metropolitan’s Substructures Team. Approval of the project should be contingent on Metropolitan’s approval of design plans for portions of the proposed project that could impact its facilities.

Detailed prints of drawings of Metropolitan’s pipelines and rights-of-way may be obtained by calling Metropolitan’s Substructures Information Line at (213) 217-6564. To assist the applicant in preparing plans that are compatible with Metropolitan’s facilities and easements, we have enclosed a copy of the “Guidelines for Developments in the Area of Facilities, Fee Properties, and/or Easement of The Metropolitan Water District of Southern California.” Please note that all submitted designs or plans must clearly identify Metropolitan’s facilities and rights-of-way. We appreciate the opportunity to provide input to your planning process and we look forward to receiving future documentation and plans for this project. For further assistance, please contact Ms. Michelle Morrison at (213) 217-7906.

Very truly yours,


for Deirdre West
Manager, Environmental Planning Team

MM:rdl

J:\Environmental Planning&Compliance\COMPLETED JOBS\September2014\EPT Job No. 20140944MIS

Enclosures: Planning Guidelines and Map of Metropolitan Facilities in Project Vicinity

Guidelines for Developments in the
Area of Facilities, Fee Properties, and/or Easements
of The Metropolitan Water District of Southern California

1. Introduction

a. The following general guidelines should be followed for the design of proposed facilities and developments in the area of Metropolitan's facilities, fee properties, and/or easements.

b. We require that 3 copies of your tentative and final record maps, grading, paving, street improvement, landscape, storm drain, and utility plans be submitted for our review and written approval as they pertain to Metropolitan's facilities, fee properties and/or easements, prior to the commencement of any construction work.

2. Plans, Parcel and Tract Maps

The following are Metropolitan's requirements for the identification of its facilities, fee properties, and/or easements on your plans, parcel maps and tract maps:

a. Metropolitan's fee properties and/or easements and its pipelines and other facilities must be fully shown and identified as Metropolitan's on all applicable plans.

b. Metropolitan's fee properties and/or easements must be shown and identified as Metropolitan's with the official recording data on all applicable parcel and tract maps.

c. Metropolitan's fee properties and/or easements and existing survey monuments must be dimensionally tied to the parcel or tract boundaries.

d. Metropolitan's records of surveys must be referenced on the parcel and tract maps.

3. Maintenance of Access Along Metropolitan's Rights-of-Way

a. Proposed cut or fill slopes exceeding 10 percent are normally not allowed within Metropolitan's fee properties or easements. This is required to facilitate the use of construction and maintenance equipment, and provide access to its aboveground and belowground facilities.

b. We require that 16-foot-wide commercial-type driveway approaches be constructed on both sides of all streets crossing Metropolitan's rights-of-way. Openings are required in any median island. Access ramps, if necessary, must be at least 16-foot-wide. Grades of ramps are normally not allowed to exceed 10 percent. If the slope of an access ramp must exceed 10 percent due to the topography, the ramp must be paved. We require a 40-foot-long level area on the driveway approach to access ramps where the ramp meets the street. At Metropolitan's fee properties, we may require fences and gates.

c. The terms of Metropolitan's permanent easement deeds normally preclude the building or maintenance of structures of any nature or kind within its easements, to ensure safety and avoid interference with operation and maintenance of Metropolitan's pipelines or other facilities. Metropolitan must have vehicular access along the easements at all times for inspection, patrolling, and for maintenance of the pipelines and other facilities on a routine basis. We require a 20-foot-wide clear zone around all above-ground facilities for this routine access. This clear zone should slope away from our facility on a grade not to exceed 2 percent. We must also have access along the easements with construction equipment. An example of this is shown on Figure 1.

d. The footings of any proposed buildings adjacent to Metropolitan's fee properties and/or easements must not encroach into the fee property or easement or impose additional loading on Metropolitan's pipelines or other facilities therein. A typical situation is shown on Figure 2. Prints of the detail plans of the footings for any building or structure adjacent to the fee property or easement must be submitted for our review and written approval as they pertain to the pipeline or other facilities therein. Also, roof eaves of buildings adjacent to the easement or fee property must not overhang into the fee property or easement area.

e. Metropolitan's pipelines and other facilities, e.g. structures, manholes, equipment, survey monuments, etc. within its fee properties and/or easements must be protected from damage by the easement holder on Metropolitan's property or the property owner where Metropolitan has an easement, at no expense to Metropolitan. If the facility is a cathodic protection station it shall be located prior to any grading or excavation. The exact location, description and way of protection shall be shown on the related plans for the easement area.

4. Easements on Metropolitan's Property

a. We encourage the use of Metropolitan's fee rights-of-way by governmental agencies for public street and utility purposes, provided that such use does not interfere with Metropolitan's use of the property, the entire width of the property is accepted into the agency's public street system and fair market value is paid for such use of the right-of-way.

b. Please contact the Director of Metropolitan's Right of Way and Land Division, telephone (213) 250-6302, concerning easements for landscaping, street, storm drain, sewer, water or other public facilities proposed within Metropolitan's fee properties. A map and legal description of the requested easements must be submitted. Also, written evidence must be submitted that shows the city or county will accept the easement for the specific purposes into its public system. The grant of the easement will be subject to Metropolitan's rights to use its land for water pipelines and related purposes to the same extent as if such grant had not been made. There will be a charge for the easement. Please note that, if entry is required on the property prior to issuance of the easement, an entry permit must be obtained. There will also be a charge for the entry permit.

5. Landscaping

Metropolitan's landscape guidelines for its fee properties and/or easements are as follows:

a. A green belt may be allowed within Metropolitan's fee property or easement.

b. All landscape plans shall show the location and size of Metropolitan's fee property and/or easement and the location and size of Metropolitan's pipeline or other facilities therein.

c. Absolutely no trees will be allowed within 15 feet of the centerline of Metropolitan's existing or future pipelines and facilities.

d. Deep-rooted trees are prohibited within Metropolitan's fee properties and/or easements. Shallow-rooted trees are the only trees allowed. The shallow-rooted trees will not be permitted any closer than 15 feet from the centerline of the pipeline, and such trees shall not be taller than 25 feet with a root spread no greater than 20 feet in diameter at maturity. Shrubs, bushes, vines, and ground cover are permitted, but larger shrubs and bushes should not be planted directly over our pipeline. Turf is acceptable. We require submittal of landscape plans for Metropolitan's prior review and written approval. (See Figure 3).

e. The landscape plans must contain provisions for Metropolitan's vehicular access at all times along its rights-of-way to its pipelines or facilities therein. Gates capable of accepting Metropolitan's locks are required in any fences across its rights-of-way. Also, any walks or drainage facilities across its access route must be constructed to AASHTO H-20 loading standards.

f. Rights to landscape any of Metropolitan's fee properties must be acquired from its Right of Way and Land Division. Appropriate entry permits must be obtained prior to any entry on its property. There will be a charge for any entry permit or easements required.

6. Fencing

Metropolitan requires that perimeter fencing of its fee properties and facilities be constructed of universal chain link, 6 feet in height and topped with 3 strands of barbed wire angled upward and outward at a 45 degree angle or an approved equal for a total fence height of 7 feet. Suitable substitute fencing may be considered by Metropolitan. (Please see Figure 5 for details).

7. Utilities in Metropolitan's Fee Properties and/or Easements or Adjacent to Its Pipeline in Public Streets

Metropolitan's policy for the alinement of utilities permitted within its fee properties and/or easements and street rights-of-way is as follows:

a. Permanent structures, including catch basins, manholes, power poles, telephone riser boxes, etc., shall not be located within its fee properties and/or easements.

b. We request that permanent utility structures within public streets, in which Metropolitan's facilities are constructed under the Metropolitan Water District Act, be placed as far from our pipeline as possible, but not closer than 5 feet from the outside of our pipeline.

c. The installation of utilities over or under Metropolitan's pipeline(s) must be in accordance with the requirements shown on the enclosed prints of Drawings Nos. C-11632 and C-9547. Whenever possible we request a minimum of one foot clearance between Metropolitan's pipe and your facility. Temporary support of Metropolitan's pipe may also be required at undercrossings of its pipe in an open trench. The temporary support plans must be reviewed and approved by Metropolitan.

d. Lateral utility crossings of Metropolitan's pipelines must be as perpendicular to its pipeline alignment as practical. Prior to any excavation our pipeline shall be located manually and any excavation within two feet of our pipeline must be done by hand. This shall be noted on the appropriate drawings.

e. Utilities constructed longitudinally within Metropolitan's rights-of-way must be located outside the theoretical trench prism for uncovering its pipeline and must be located parallel to and as close to its rights-of-way lines as practical.

f. When piping is jacked or installed in jacked casing or tunnel under Metropolitan's pipe, there must be at least two feet of vertical clearance between the bottom of Metropolitan's pipe and the top of the jacked pipe, jacked casing or tunnel. We also require that detail drawings of the shoring for the jacking or tunneling pits be submitted for our review and approval. Provisions must be made to grout any voids around the exterior of the jacked pipe, jacked casing or tunnel. If the piping is installed in a jacked casing or tunnel the annular space between the piping and the jacked casing or tunnel must be filled with grout.

g. Overhead electrical and telephone line requirements:

1) Conductor clearances are to conform to the California State Public Utilities Commission, General Order 95, for Overhead Electrical Line Construction or at a greater clearance if required by Metropolitan. Under no circumstances shall clearance be less than 35 feet.

2) A marker must be attached to the power pole showing the ground clearance and line voltage, to help prevent damage to your facilities during maintenance or other work being done in the area.

3) Line clearance over Metropolitan's fee properties and/or easements shall be shown on the drawing to indicate the lowest point of the line under the most adverse conditions including consideration of sag, wind load, temperature change, and support type. We require that overhead lines be located at least 30 feet laterally away from all above-ground structures on the pipelines.

4) When underground electrical conduits, 120 volts or greater, are installed within Metropolitan's fee property and/or easement, the conduits must be incased in a minimum of three inches of red concrete. Where possible, above ground warning signs must also be placed at the right-of-way lines where the conduits enter and exit the right-of-way.

h. The construction of sewerlines in Metropolitan's fee properties and/or easements must conform to the California Department of Health Services Criteria for the Separation of Water Mains and Sanitary Services and the local City or County Health Code Ordinance as it relates to installation of sewers in the vicinity of pressure waterlines. The construction of sewerlines should also conform to these standards in street rights-of-way.

i. Cross sections shall be provided for all pipeline crossings showing Metropolitan's fee property and/or easement limits and the location of our pipeline(s). The exact locations of the crossing pipelines and their elevations shall be marked on as-built drawings for our information.

j. Potholing of Metropolitan's pipeline is required if the vertical clearance between a utility and Metropolitan's pipeline is indicated on the plan to be one foot or less. If the indicated clearance is between one and two feet, potholing is suggested. Metropolitan will provide a representative to assist others in locating and identifying its pipeline. Two-working days notice is requested.

k. Adequate shoring and bracing is required for the full depth of the trench when the excavation encroaches within the zone shown on Figure 4.

l. The location of utilities within Metropolitan's fee property and/or easement shall be plainly marked to help prevent damage during maintenance or other work done in the area. Detectable tape over buried utilities should be placed a minimum of 12 inches above the utility and shall conform to the following requirements:

1) Water pipeline: A two-inch blue warning tape shall be imprinted with:

"CAUTION BURIED _____ PIPELINE"

2) Gas, oil, or chemical pipeline: A two-inch yellow warning tape shall be imprinted with:

"CAUTION BURIED _____ PIPELINE"

3) Sewer or storm drain pipeline: A two-inch green warning tape shall be imprinted with:

"CAUTION BURIED _____ PIPELINE"

4) Electric, street lighting, or traffic signals conduit: A two-inch red warning tape shall be imprinted with:

"CAUTION BURIED _____ CONDUIT"

5) Telephone, or television conduit: A two-inch orange warning tape shall be imprinted with:

"CAUTION BURIED _____ CONDUIT"

m. Cathodic Protection requirements:

1) If there is a cathodic protection station for Metropolitan's pipeline in the area of the proposed work, it shall be located prior to any grading or excavation. The exact location, description and manner of protection shall be shown on all applicable plans. Please contact Metropolitan's Corrosion Engineering Section, located at Metropolitan's F. E. Weymouth Softening and Filtration Plant, 700 North Moreno Avenue, La Verne, California 91750, telephone (714) 593-7474, for the locations of Metropolitan's cathodic protection stations.

2) If an induced-current cathodic protection system is to be installed on any pipeline crossing Metropolitan's pipeline, please contact Mr. Wayne E. Risner at (714) 593-7474 or (213) 250-5085. He will review the proposed system and determine if any conflicts will arise with the existing cathodic protection systems installed by Metropolitan.

3) Within Metropolitan's rights-of-way, pipelines and carrier pipes (casings) shall be coated with an approved protective coating to conform to Metropolitan's requirements, and shall be maintained in a neat and orderly condition as directed by Metropolitan. The application and monitoring of cathodic protection on the pipeline and casing shall conform to Title 49 of the Code of Federal Regulations, Part 195.

4) If a steel carrier pipe (casing) is used:

(a) Cathodic protection shall be provided by use of a sacrificial magnesium anode (a sketch showing the cathodic protection details can be provided for the designers information).

(b) The steel carrier pipe shall be protected with a coal tar enamel coating inside and out in accordance with AWWA C203 specification.

n. All trenches shall be excavated to comply with the CAL/OSHA Construction Safety Orders, Article 6, beginning with Sections 1539 through 1547. Trench backfill shall be placed in 8-inch lifts and shall be compacted to 95 percent relative compaction (ASTM D698) across roadways and through protective dikes. Trench backfill elsewhere will be compacted to 90 percent relative compaction (ASTM D698).

o. Control cables connected with the operation of Metropolitan's system are buried within streets, its fee properties and/or easements. The locations and elevations of these cables shall be shown on the drawings. The drawings shall note that prior to any excavation in the area, the control cables shall be located and measures shall be taken by the contractor to protect the cables in place.

p. Metropolitan is a member of Underground Service Alert (USA). The contractor (excavator) shall contact USA at 1-800-422-4133 (Southern California) at least 48 hours prior to starting any excavation work. The contractor will be liable for any damage to Metropolitan's facilities as a result of the construction.

8. Paramount Right

Facilities constructed within Metropolitan's fee properties and/or easements shall be subject to the paramount right of Metropolitan to use its fee properties and/or easements for the purpose for which they were acquired. If at any time Metropolitan or its assigns should, in the exercise of their rights, find it necessary to remove any of the facilities from the fee properties and/or easements, such removal and replacement shall be at the expense of the owner of the facility.

9. Modification of Metropolitan's Facilities

When a manhole or other of Metropolitan's facilities must be modified to accommodate your construction or reconstruction, Metropolitan will modify the facilities with its forces. This should be noted on the construction plans. The estimated cost to perform this modification will be given to you and we will require a deposit for this amount before the work is performed. Once the deposit is received, we will schedule the work. Our forces will coordinate the work with your contractor. Our final billing will be based on actual cost incurred, and will include materials, construction, engineering plan review, inspection, and administrative overhead charges calculated in accordance with Metropolitan's standard accounting practices. If the cost is less than the deposit, a refund will be made; however, if the cost exceeds the deposit, an invoice will be forwarded for payment of the additional amount.

10. Drainage

a. Residential or commercial development typically increases and concentrates the peak storm water runoff as well as the total yearly storm runoff from an area, thereby increasing the requirements for storm drain facilities downstream of the development. Also, throughout the year water from landscape irrigation, car washing, and other outdoor domestic water uses flows into the storm drainage system resulting in weed abatement, insect infestation, obstructed access and other problems. Therefore, it is Metropolitan's usual practice not to approve plans that show discharge of drainage from developments onto its fee properties and/or easements.

b. If water must be carried across or discharged onto Metropolitan's fee properties and/or easements, Metropolitan will insist that plans for development provide that it be carried by closed conduit or lined open channel approved in writing by Metropolitan. Also the drainage facilities must be maintained by others, e.g., city, county, homeowners association, etc. If the development proposes changes to existing drainage features, then the developer shall make provisions to provide for replacement and these changes must be approved by Metropolitan in writing.

11. Construction Coordination

During construction, Metropolitan's field representative will make periodic inspections. We request that a stipulation be added to the plans or specifications for notification of Mr. _____ of Metropolitan's Operations Services Branch, telephone (213) 250-_____, at least two working days prior to any work in the vicinity of our facilities.

12. Pipeline Loading Restrictions

a. Metropolitan's pipelines and conduits vary in structural strength, and some are not adequate for AASHTO H-20 loading. Therefore, specific loads over the specific sections of pipe or conduit must be reviewed and approved by Metropolitan. However, Metropolitan's pipelines are typically adequate for AASHTO H-20 loading provided that the cover over the pipeline is not less than four feet or the cover is not substantially increased. If the temporary cover over the pipeline during construction is between three and four feet, equipment must be restricted to that which

imposes loads no greater than AASHTO H-10. If the cover is between two and three feet, equipment must be restricted to that of a Caterpillar D-4 tract-type tractor. If the cover is less than two feet, only hand equipment may be used. Also, if the contractor plans to use any equipment over Metropolitan's pipeline which will impose loads greater than AASHTO H-20, it will be necessary to submit the specifications of such equipment for our review and approval at least one week prior to its use. More restrictive requirements may apply to the loading guideline over the San Diego Pipelines 1 and 2, portions of the Orange County Feeder, and the Colorado River Aqueduct. Please contact us for loading restrictions on all of Metropolitan's pipelines and conduits.

b. The existing cover over the pipeline shall be maintained unless Metropolitan determines that proposed changes do not pose a hazard to the integrity of the pipeline or an impediment to its maintenance.

13. Blasting

a. At least 20 days prior to the start of any drilling for rock excavation blasting, or any blasting, in the vicinity of Metropolitan's facilities, a two-part preliminary conceptual plan shall be submitted to Metropolitan as follows:

b. Part 1 of the conceptual plan shall include a complete summary of proposed transportation, handling, storage, and use of explosions.

c. Part 2 shall include the proposed general concept for blasting, including controlled blasting techniques and controls of noise, fly rock, airblast, and ground vibration.

14. CEQA Requirements

a. When Environmental Documents Have Not Been Prepared

1) Regulations implementing the California Environmental Quality Act (CEQA) require that Metropolitan have an opportunity to consult with the agency or consultants preparing any environmental documentation. We are required to review and consider the environmental effects of the project as shown in the Negative Declaration or Environmental Impact Report (EIR) prepared for your project before committing Metropolitan to approve your request.

2) In order to ensure compliance with the regulations implementing CEQA where Metropolitan is not the Lead Agency, the following minimum procedures to ensure compliance with the Act have been established:

a) Metropolitan shall be timely advised of any determination that a Categorical Exemption applies to the project. The Lead Agency is to advise Metropolitan that it and other agencies participating in the project have complied with the requirements of CEQA prior to Metropolitan's participation.

b) Metropolitan is to be consulted during the preparation of the Negative Declaration or EIR.

c) Metropolitan is to review and submit any necessary comments on the Negative Declaration or draft EIR.

d) Metropolitan is to be indemnified for any costs or liability arising out of any violation of any laws or regulations including but not limited to the California Environmental Quality Act and its implementing regulations.

b. When Environmental Documents Have Been Prepared

If environmental documents have been prepared for your project, please furnish us a copy for our review and files in a timely manner so that we may have sufficient time to review and comment. The following steps must also be accomplished:

1) The Lead Agency is to advise Metropolitan that it and other agencies participating in the project have complied with the requirements of CEQA prior to Metropolitan's participation.

2) You must agree to indemnify Metropolitan, its officers, engineers, and agents for any costs or liability arising out of any violation of any laws or regulations including but not limited to the California Environmental Quality Act and its implementing regulations.

15. Metropolitan's Plan-Review Cost

a. An engineering review of your proposed facilities and developments and the preparation of a letter response

giving Metropolitan's comments, requirements and/or approval that will require 8 man-hours or less of effort is typically performed at no cost to the developer, unless a facility must be modified where Metropolitan has superior rights. If an engineering review and letter response requires more than 8 man-hours of effort by Metropolitan to determine if the proposed facility or development is compatible with its facilities, or if modifications to Metropolitan's manhole(s) or other facilities will be required, then all of Metropolitan's costs associated with the project must be paid by the developer, unless the developer has superior rights.

b. A deposit of funds will be required from the developer before Metropolitan can begin its detailed engineering plan review that will exceed 8 hours. The amount of the required deposit will be determined after a cursory review of the plans for the proposed development.

c. Metropolitan's final billing will be based on actual cost incurred, and will include engineering plan review, inspection, materials, construction, and administrative overhead charges calculated in accordance with Metropolitan's standard accounting practices. If the cost is less than the deposit, a refund will be made; however, if the cost exceeds the deposit, an invoice will be forwarded for payment of the additional amount. Additional deposits may be required if the cost of Metropolitan's review exceeds the amount of the initial deposit.

16. Caution

We advise you that Metropolitan's plan reviews and responses are based upon information available to Metropolitan which was prepared by or on behalf of Metropolitan for general record purposes only. Such information may not be sufficiently detailed or accurate for your purposes. No warranty of any kind, either express or implied, is attached to the information therein conveyed as to its accuracy, and no inference should be drawn from Metropolitan's failure to comment on any aspect of your project. You are therefore cautioned to make such surveys and other field investigations as you may deem prudent to assure yourself that any plans for your project are correct.

17. Additional Information

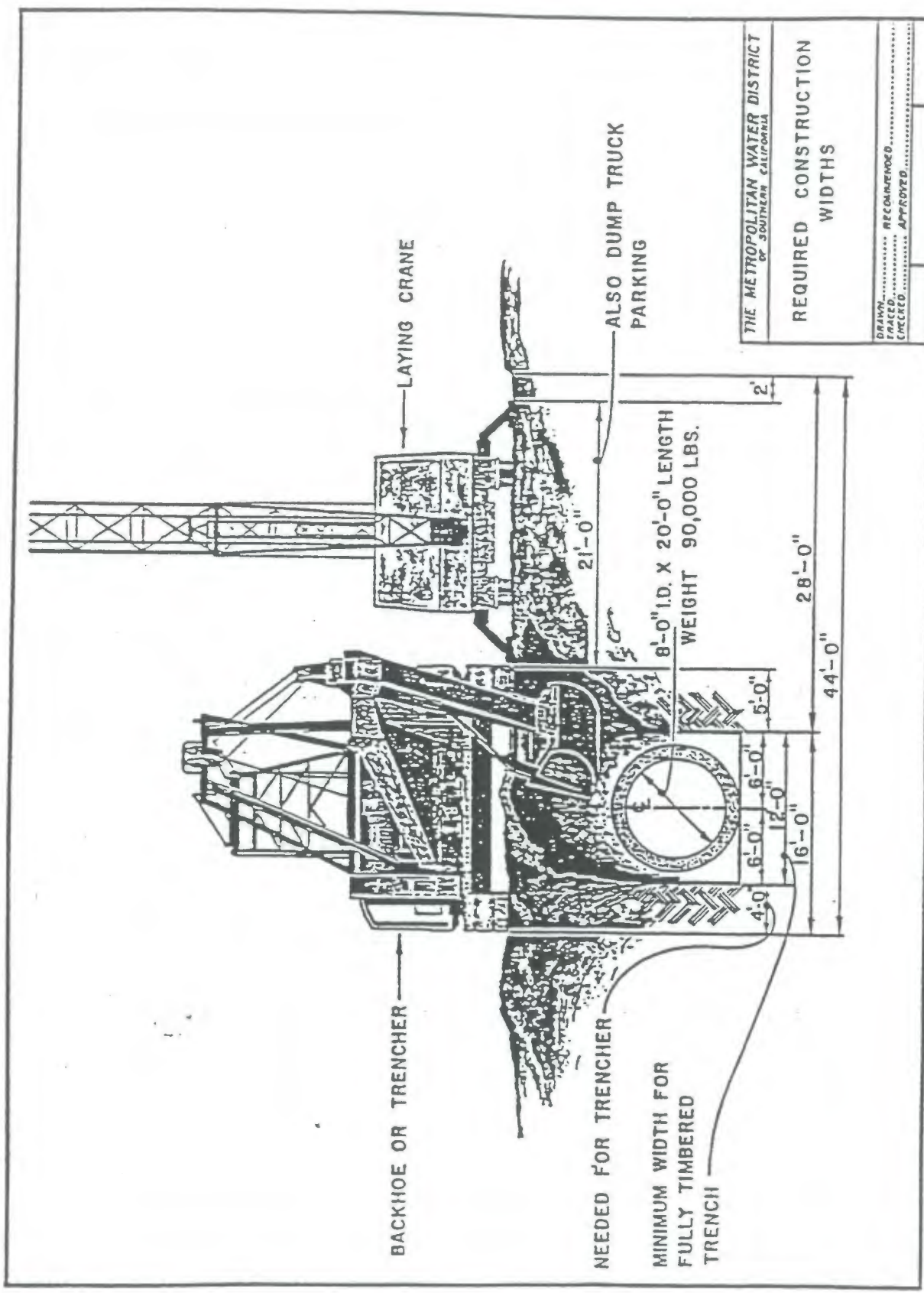
Should you require additional information, please contact:

Civil Engineering Substructures Section
Metropolitan Water District
of Southern California
P.O. Box 54153
Los Angeles, California 90054-0153
(213) 217-6000

JEH/MRW/lk

Rev. January 22, 1989

Encl.

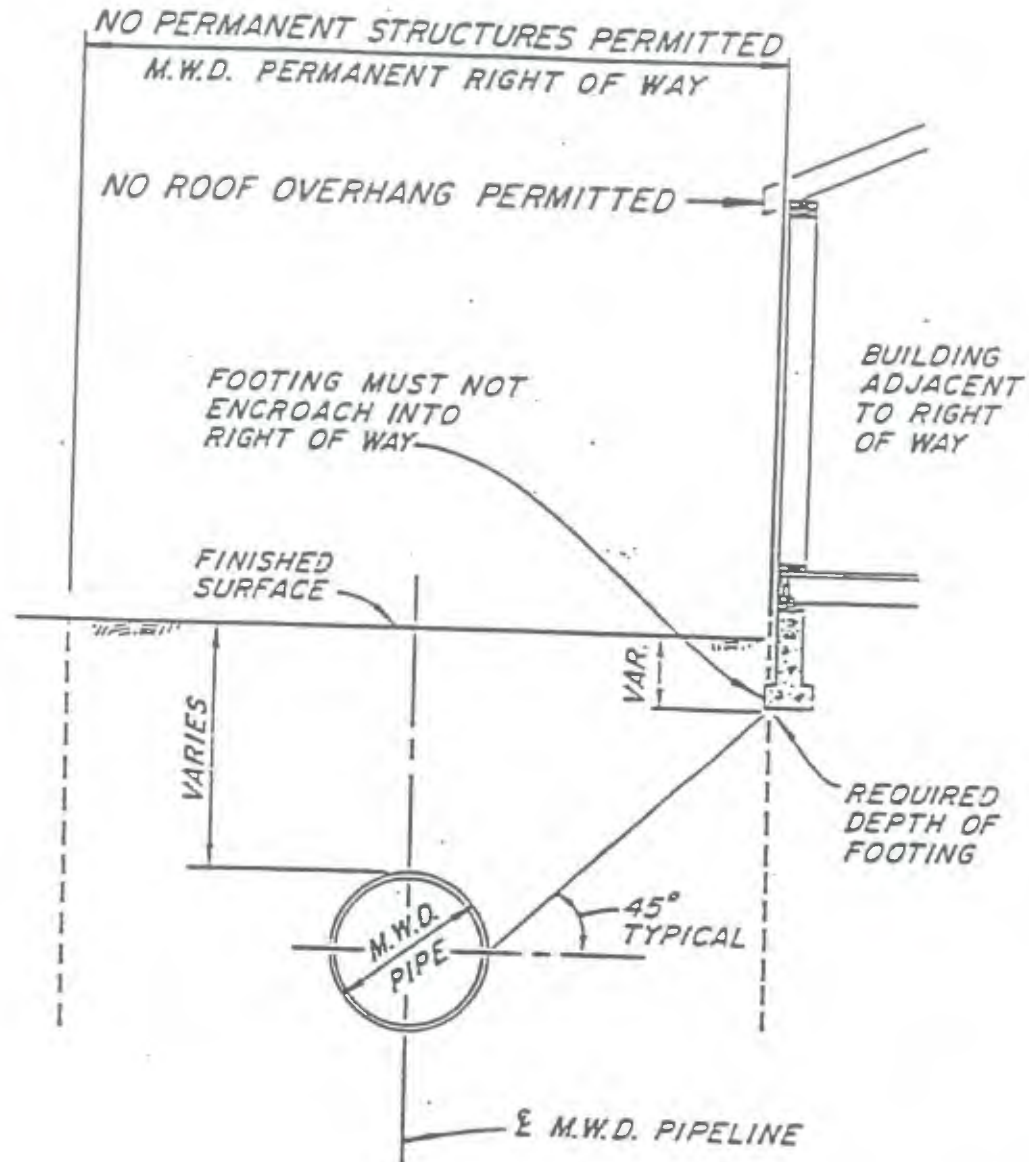


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

REQUIRED CONSTRUCTION
WIDTHS

DRAWN..... RECOMMENDED.....
CHECKED..... APPROVED.....

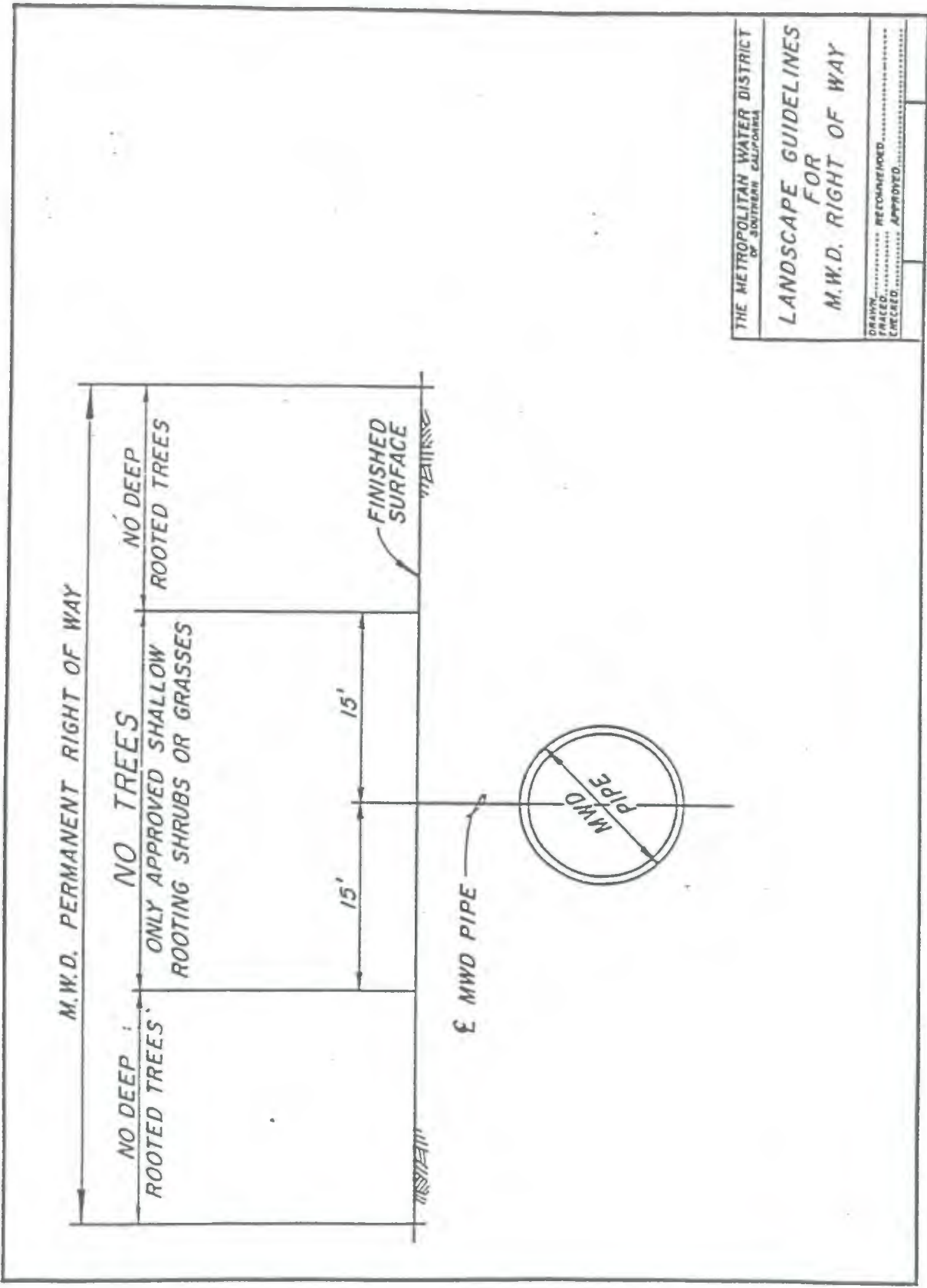
FIGURE 1



NOTE: M.W.D. PIPELINE SIZE, DEPTH, LOCATION AND WIDTH OF PERMANENT RIGHT OF WAY VARIES.

| | |
|--|-------------------|
| THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA | |
| REQUIREMENTS FOR BUILDINGS AND FOOTINGS ADJACENT TO M.W.D. RIGHT OF WAY | |
| DRAWN _____ | RECOMMENDED _____ |
| TRACED _____ | APPROVED _____ |
| CHECKED _____ | |

FIGURE 2

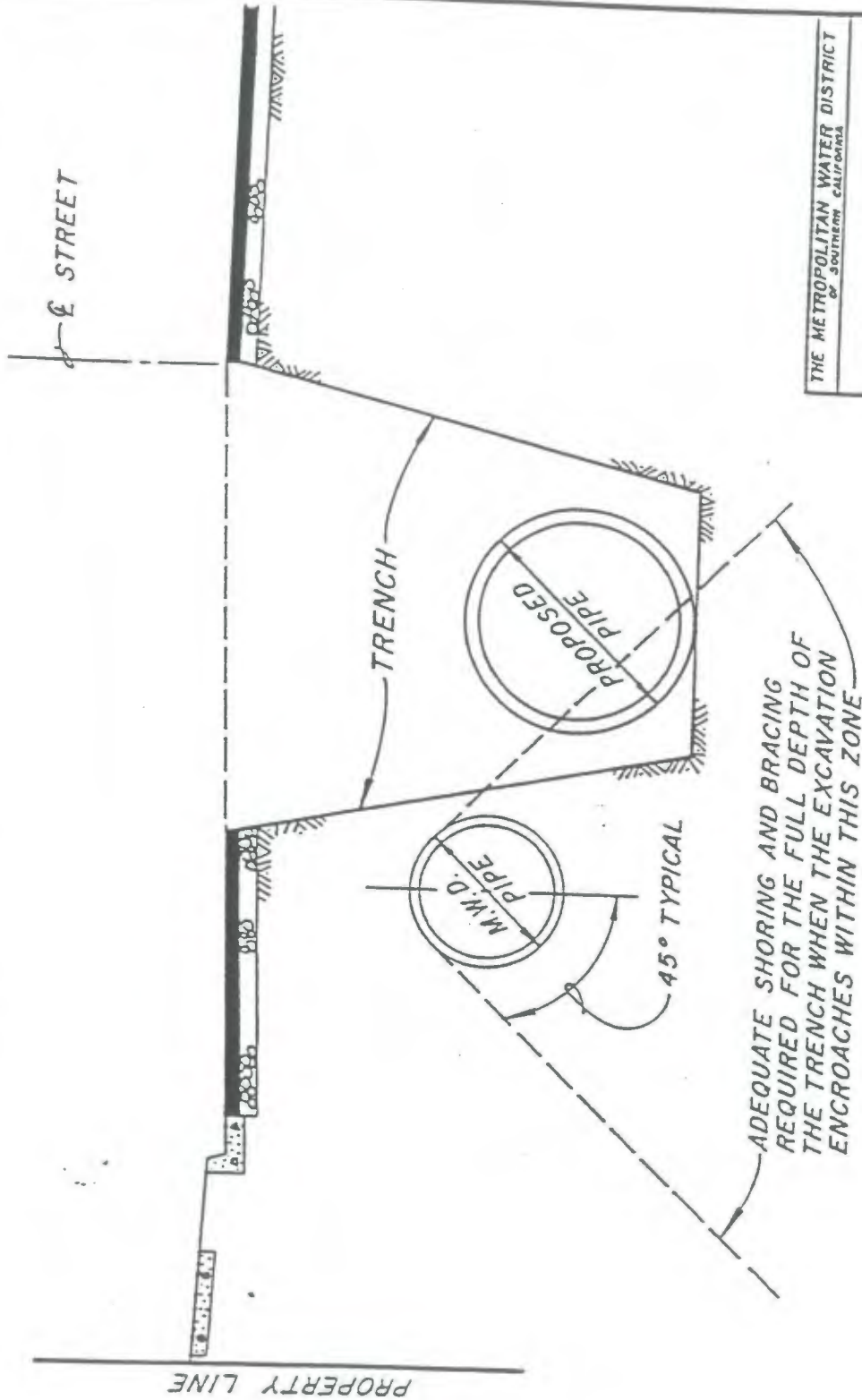


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

LANDSCAPE GUIDELINES
FOR
M.W.D. RIGHT OF WAY

DRAWN RECOMMENDED
 PLOTTED APPROVED
 CHECKED

FIGURE 3

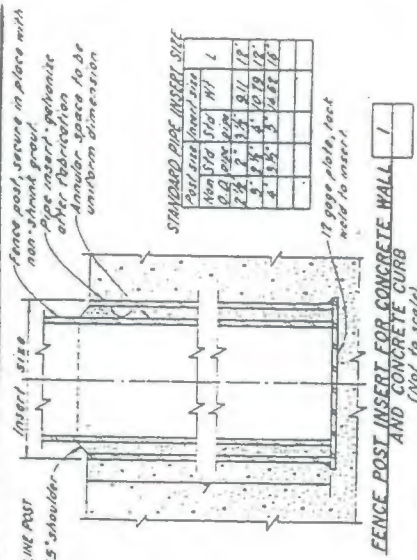


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

**SHORING AND BRACING
REQUIREMENTS**

DRAWN..... RECOMMENDED.....
 CHECKED..... APPROVED.....

FIGURE 4

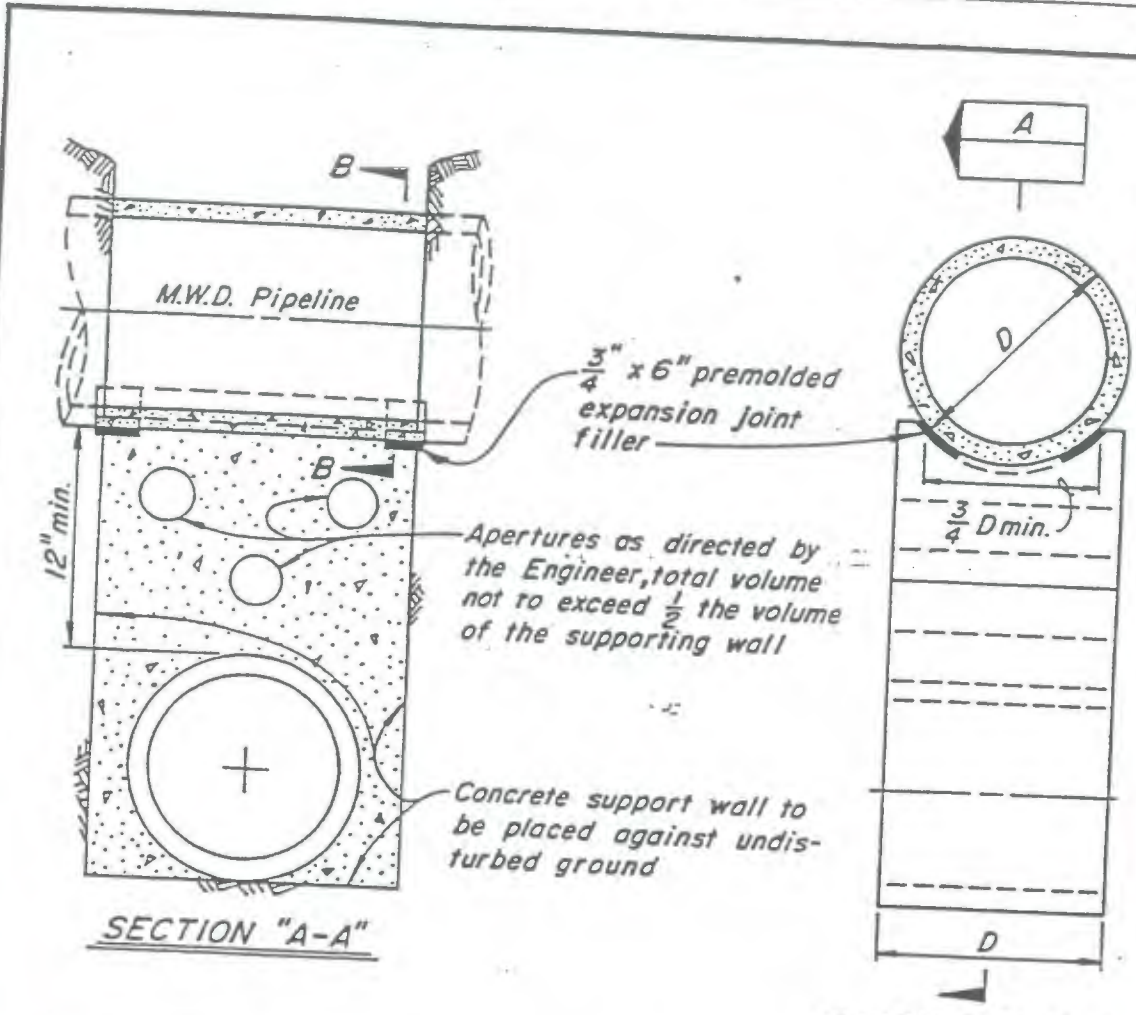


STANDARD PIPE INSERT SIZE

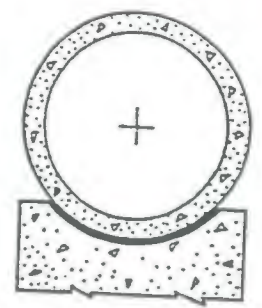
| Post Size (Nominal Size) | Insert Size (Nominal Size) | Insert Length (Feet) |
|--------------------------|----------------------------|----------------------|
| 1 1/2" | 1 1/2" | 1 |
| 2" | 2" | 1 1/2 |
| 2 1/2" | 2 1/2" | 2 |
| 3" | 3" | 2 1/2 |
| 3 1/2" | 3 1/2" | 3 |
| 4" | 4" | 3 1/2 |
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| 5" | 5" | 4 1/2 |
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FENCE POST INSERT FOR CONCRETE WALL AND CONCRETE CURB (Not to scale)

| Use | Type | Nominal Size (Inches) | Actual Size (Inches) | Weight per foot (Pounds) |
|---|------|-----------------------|----------------------|--------------------------|
| End, corner, slope, pull and gate posts for single gates 6 feet or less in width and 18 feet or less in height. Use in 10 ft or wider-14 ft or wider-18 ft or wider-22 ft or wider-26 ft or wider-30 ft or wider-36 ft or wider-42 ft or wider-48 ft or wider-54 ft or wider-60 ft or wider-66 ft or wider-72 ft or wider-78 ft or wider-84 ft or wider-90 ft or wider-96 ft or wider-102 ft or wider-108 ft or wider-114 ft or wider-120 ft or wider-126 ft or wider-132 ft or wider-138 ft or wider-144 ft or wider-150 ft or wider-156 ft or wider-162 ft or wider-168 ft or wider-174 ft or wider-180 ft or wider-186 ft or wider-192 ft or wider-198 ft or wider-204 ft or wider-210 ft or wider-216 ft or wider-222 ft or wider-228 ft or wider-234 ft or wider-240 ft or wider-246 ft or wider-252 ft or wider-258 ft or wider-264 ft or wider-270 ft or wider-276 ft or wider-282 ft or wider-288 ft or wider-294 ft or wider-300 ft or wider-306 ft or wider-312 ft or wider-318 ft or wider-324 ft or wider-330 ft or wider-336 ft or wider-342 ft or wider-348 ft or wider-354 ft or wider-360 ft or wider-366 ft or wider-372 ft or 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1. Supporting wall shall have a firm bearing on the subgrade and against the side of the excavation.
2. Premolded expansion joint filler per ASTM D-1751-73 to be used in support for steel pipe only.
3. If trench width is 4 feet or greater, measured along centerline of M.W.D. pipe, concrete support must be constructed.
4. If trench width is less than 4 feet, clean sand backfill, compacted to 90% density in accordance with the provisions of ASTM Standard D-1557-70 may be used in lieu of the concrete support wall.

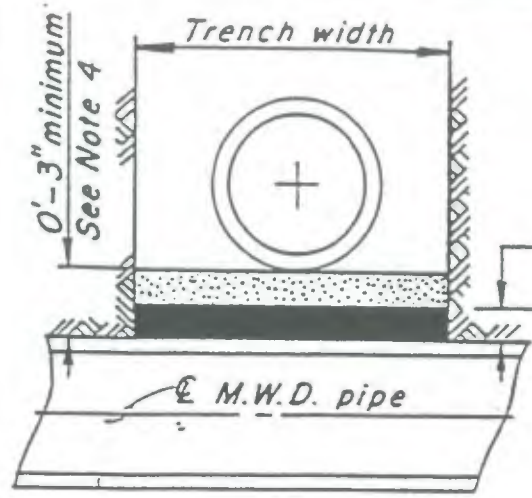


THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

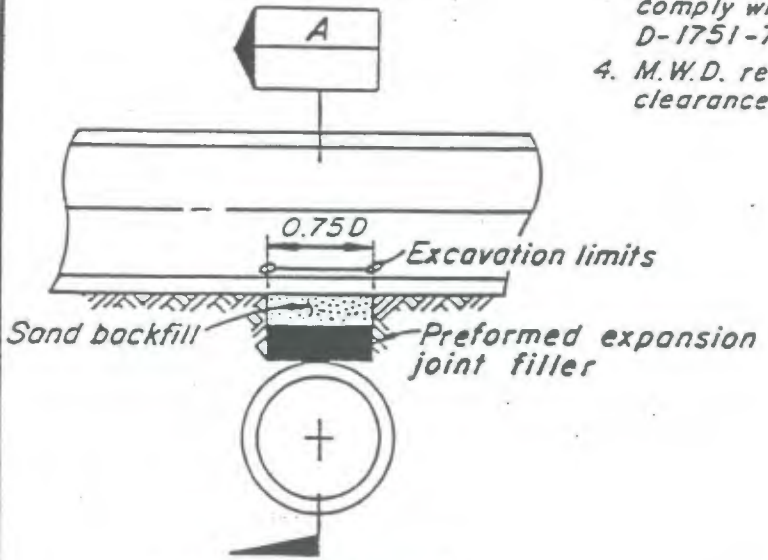
TYPICAL SUPPORT FOR
M.W.D. PIPELINE

DRAWN: _____ RECOMMENDED: _____
 TRACED: _____ CHECKED: _____
 APPROVED: _____

C-9547



SECTION A



CROSS SECTION

3" Preformed expansion joint filler

NOTES

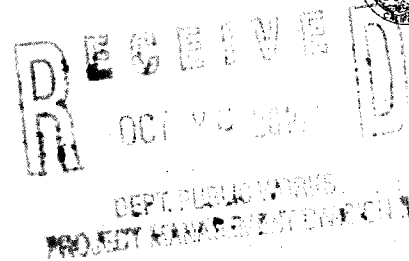
1. This method to be used where the utility line is 24" or greater in diameter and the clearance between the utility line and M.W.D. pipe is 12" or less.
2. Special protection may be required if the utility line diameter is greater than M.W.D. pipe or if the cover over the utility line to the street surface is minimal and there is 12" or less clearance between M.W.D. pipe and the utility line.
3. Preformed expansion joint filler to comply with ASTM designation D-1751-73.
4. M.W.D. requests 12" minimum clearance whenever possible.

| | |
|--|-------------------|
| THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA | |
| TYPICAL EXPANSION JOINT FILLER PROTECTION FOR OVCROSSING OF M.W.D. PIPELINE | |
| DRAWN _____ | RECOMMENDED _____ |
| TRACED _____ | APPROVED _____ |
| CHECKED _____ | |
| C-11632 | |

Gregg

STATE OF CALIFORNIA
NATIVE AMERICAN HERITAGE COMMISSION1550 Harbor Blvd., ROOM 100
West SACRAMENTO, CA 95691
(916) 373-3710
Fax (916) 373-5471

September 25, 2014

Gregg BeGell
Los Angeles County Flood Control District
900 South Fremont Avenue, 11th Floor
Alhambra, CA 91803

RE: SCH# 2014081106 Enhanced Watershed Management Programs (EWMP) Program EIR, Los Angeles County.

Dear Mr. BeGell,

The Native American Heritage Commission (NAHC) has reviewed the Notice of Preparation (NOP) referenced above. The California Environmental Quality Act (CEQA) states that any project that causes a substantial adverse change in the significance of an historical resource, which includes archeological resources, is a significant effect requiring the preparation of an EIR (CEQA Guidelines 15064(b)). To comply with this provision the lead agency is required to assess whether the project will have an adverse impact on historical resources within the area of project effect (APE), and if so to mitigate that effect. To adequately assess and mitigate project-related impacts to archaeological resources, the NAHC recommends the following actions:

- ✓ Contact the appropriate regional archaeological Information Center for a record search. The record search will determine:
 - If a part or all of the area of project effect (APE) has been previously surveyed for cultural resources.
 - If any known cultural resources have already been recorded on or adjacent to the APE.
 - If the probability is low, moderate, or high that cultural resources are located in the APE.
 - If a survey is required to determine whether previously unrecorded cultural resources are present.
- ✓ If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure.
 - The final written report should be submitted within 3 months after work has been completed to the appropriate regional archaeological Information Center.
- ✓ Contact the Native American Heritage Commission for:
 - A Sacred Lands File Check. **USGS 7.5-minute quadrangle name, township, range, and section required**
 - A list of appropriate Native American contacts for consultation concerning the project site and to assist in the mitigation measures. **Native American Contacts List attached**
- ✓ Lack of surface evidence of archeological resources does not preclude their subsurface existence.
 - Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, per California Environmental Quality Act (CEQA) Guidelines §15064.5(f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities.
 - Lead agencies should include in their mitigation plan provisions for the disposition of recovered cultural items that are not burial associated, which are addressed in Public Resources Code (PRC) §5097.98, in consultation with culturally affiliated Native Americans.
 - Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, PRC §5097.98, and CEQA Guidelines §15064.5(e), address the process to be followed in the event of an accidental discovery of any human remains and associated grave goods in a location other than a dedicated cemetery.

Sincerely,

Katy Sanchez
Associate Government Program Analyst

CC: State Clearinghouse

**Native American Contacts
Los Angeles County
September 25, 2014**

Tongva Ancestral Territorial Tribal Nation
John Tommy Rosas, Tribal Admin.
Gabrielino Tongva
tattnlaw@gmail.com
(310) 570-6567

Gabrielino-Tongva Tribe
Bernie Acuna, Co-Chairperson
Contact information unavailable Gabrielino

Last attempted verification 9/5/14

(310) 428-5690 Cell

Gabrielino/Tongva San Gabriel Band of Mission Indian
Anthony Morales, Chairperson
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GTTribalcouncil@aol.com
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Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson
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Last attempted verification 9/5/14

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Gabrielino /Tongva Nation
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Gabrielino Band of Mission Indians
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Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Tribal Chair/Cultural Resources
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Conrad Acuna
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Last attempted verification 9/5/14

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH # 2014081106, Enhanced Watershed Management Programs (EWMP) Program EIR, Los Angeles County.

**Native American Contacts
Los Angeles County
September 25, 2014**

Gabrielino /Tongva Nation
Sam Dunlap, Cultural Resources Director
P.O. Box 86908 Gabrielino Tongva
Los Angeles , CA 90086
samdunlap@earthlink.net
(909) 262-9351

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This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH # 2014081106, Enhanced Watershed Management Programs (EWMP) Program EIR, Los Angeles County.

Laura Rocha

From: Begell, Gregg - Consultant <gbegell@dpw.lacounty.gov>
Sent: Monday, October 06, 2014 6:59 AM
To: Crumpacker, Andrea; David Pohl
Subject: FW: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR LA COUNTY

Comment Letter.

Gregg BeGell P E
Project Manager
Project Management Division II

From: patricia mc pherson [mailto:patriciamcpherson1@verizon.net]
Sent: Friday, October 03, 2014 1:27 PM
To: Begell, Gregg - Consultant
Subject: COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR LA COUNTY

Grassroots Coalition submits its support of the comments made below by Mr. Rex Frankel. Due on the 29th, GC was in transit from out of state and belatedly requests that its support of the comments below be part of the record.

Please also note attachment of imagery of California.

Currently, the State Coastal Conservancy and the Dept of Fish and Wildlife have created a preordained outcome for the Ballona Wetlands Restoration. This outcome that has been determined to destroy the freshwater aquifers of Ballona (classified as potential drinking water) without the legal requirements of public participation and transparency of process that the millions of dollars of public bond money set forth in 2004. Such destructive plans to the watershed of the Ballona Valley should not be allowed to proceed.

The failure of the state to fully engage the public and provide accountability and transparency of process has led to the dire situation of groundwater removal that California and Ballona Wetlands have.

<http://www.latimes.com/science/sciencenow/la-sci-sn-california-drought-groundwater-satellite-20141002-story.html>

Thank you,
Patricia McPherson, President -Grassroots Coalition

COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

September 29, 2014, 1:30 pm

From Rex Frankel, director, Ballona Ecosystem Education Project,
6038 west 75th street, L.A. CA 90045
310-738-0861, email: rexfrankel@yahoo.com

I understand why no one but myself attended the NOP hearing on September 9th in Marina Del Rey. You have no specific projects to analyze for environmental impacts. You are attempting to analyze the environmental impact of words, not specific actions. It is impossible to analyze the impacts of no stated physical projects, just as it is impossible to analyze those unstated projects' impacts on the environmental setting, ie., the proper baseline, because you have no specific locations for these unspecified projects. Thus all you can say is to analyze the entire county. The two most essential parts of an environmental analysis are missing here: specific projects and specific sites. You have the process all backwards here, and thus, commenting on this NOP in any specific manner is impossible.

Some background: In 2002, local governments settled lawsuits and agreed to consent decrees and promised to stop violations of bacterial health codes at our beaches by 2021. This agreement gave the public agencies an extension beyond the original deadline of 2013 but only if the projects created new parkland and river corridors that could catch and clean water before it fouled the beaches.

In 2006, L.A. City proposed its first big plan under this agreement, an Implementation Plan for the Santa Monica Bay Beaches watersheds. This plan was sent back for redrafting by the RWQCB as it only reached 2% of its target and thus, would not accomplish the goal in the consent decree.

Also in 2006, L.A. city proposed the Integrated Resource Plan which mainly focused on building 25 Hyperion-style urban runoff treatment plants which would have cost the average homeowner ratepayer \$400 a month. This plan went nowhere.

In 2012, the County Supervisors tried to quietly approve a \$300 million per year property tax hike to build a non-existent list of runoff cleansing and capturing projects. Howls of opposition arose and that plan went nowhere. The public wanted to know what they were paying for.

Now, you are finally starting to design the cleanup plan. But how can you ask the public to weigh in on the scope of the environmental analysis of that plan, when your description of that plan contains no specifics? Your stated plan to defer the environmental analysis of specific project impacts to when each one is up for approval thus ignores the cumulative impacts and therefore is "piecemealing", by starting major momentum of a project that is composed of many necessary parts, yet deferring analysis and the controversy to a multitude of separate EIRs and CEQA documents and public hearings, all the while public input is diffused. We never get to weigh in on whether we like the complete plan because the Program EIR has no specifics to arouse concern and the real project discussion is delayed until much later in a way that requires massive efforts by the public to keep track of the success of the big plan.

The people who will pay for this plan want to see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you produce an EIR, not the other way around.

Please put me on the notification list for all actions relating to this project. Thank you.

Paige Anderson

To: Tom Barnes
Subject: RE: ADDITIONAL COMMENTS ON L.A. County Enhanced Watershed Management Program, Notice of Preparation

From: Rex Frankel [<mailto:rexfrankel@yahoo.com>]
Sent: Wednesday, October 29, 2014 5:28 PM
To: Begell, Gregg - Consultant
Cc: kathy.knight@verizon.net
Subject: ADDITIONAL COMMENTS ON L.A. County Enhanced Watershed Management Program, Notice of Preparation

ADDITIONAL COMMENTS ON EWMP NOP: October 29, 2014

The problem I have with a Program EIR for a "program" that is devoid of a list of all necessary specific projects is that it short-circuits the cumulative impacts review plus it facilitates illegal piecemealing of the many TMDL compliance projects. A program EIR can be allowed when the individual and currently unknown specific sub projects have "independent utility", thus building and analyzing them separately has no impact on the effectiveness of the other sub projects, nor does it make it mandatory that these other projects also be approved. That is not the case here. The goal of the EWMP and the sub projects is "to achieve permit compliance with RWLs" (NOP page 7 paragraph 3 and page 8, paragraph 1). Thus, all projects must be approved and successfully achieve their goals or the region will not be in compliance with the 2012 MS4 permit, the Federal Clean Water Act and the NPDES permits. If only some of the projects prove feasible and buildable, the construction of the others will not result in CWA compliance. That begs the question of is this project worthwhile if piecemealed at all? Will the beach only be clean in certain locations along the shore, while others will not be as a treatment strategy proved too expensive or technologically infeasible? If the taxpayers ultimately decide this project is too expensive, but certain parts are already built, does that mean that pulling-the-plug will result in non compliance and thus a waste of the taxpayers' dollars already spent? This s

How can the public know if the permits and Clean Water Act will be complied with if the approval of the individual pieces of the compliance strategy are broken up into numerous pieces each receiving their own separate CEQA review? All of this leads me to conclude that the specific projects must be reviewed and approved as part of a master plan project, with the public knowing the full cost of compliance, the full impacts of all projects and alternative policy choices. One specific alternative, distasteful as I find it, would be analysis of only building some projects and also enforcing no-swimming rules for three days after rainfall at beaches.

I will repeat the conclusion of my first NOP comments: The people who will pay for this plan want to all of the see the specifics before you raise our taxes to pay for it. We want expanded and unpaved river corridor parks. We do not want the plan to include converting existing wetlands and wildlife habitat into pollution dumps and sumps. We want what we were promised, not a lame compromise that puts the cleanup burden on existing public lands, parks and house front yards. We want a complete plan for us to judge whether it will accomplish its promises and goals before you analyze and mandate it with an EIR, not the other way around.

Rex Frankel

From: "Begell, Gregg - Consultant" <gbegell@dpw.lacounty.gov>
To: Rex Frankel <rexfrankel@yahoo.com>
Sent: Monday, September 29, 2014 2:26 PM
Subject: RE: L.A. County Enhanced Watershed Management Program, comments on Notice of Preparation

Rex

Thank you for your comments. It will be reviewed for use in the PEIR.

Yes, when people think of an EIR they are thinking of a project. This is a Program EIR, the main PEIR document contains some projects as examples but it's a program.

We are presently working on the PEIR, check our website for information and details.
www.LACoH2Osheds.com. We will be posting the PEIR plus public review meetings on the website.

Gregg BeGell P E
Project Manager
Project Management Division II

From: Rex Frankel [<mailto:rexfrankel@yahoo.com>]
Sent: Monday, September 29, 2014 1:59 PM
To: Begell, Gregg - Consultant
Subject: L.A. County Enhanced Watershed Management Program, comments on Notice of Preparation

COMMENTS ON NOTICE OF PREPARATION FOR DRAFT PROGRAM EIR FOR ENHANCED WATERSHED MANAGEMENT PROGRAMS FOR L.A. COUNTY

September 29, 2014, 1:30 pm

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6038 west 75th street, L.A. CA 90045
310-738-0861, email: rexfrankel@yahoo.com

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Paige Anderson

To: Tom Barnes
Subject: RE: ADDITIONAL COMMENTS ON L.A. County Enhanced Watershed Management Program, Notice of Preparation

From: Rex Frankel [<mailto:rexfrankel@yahoo.com>]
Sent: Monday, September 29, 2014 1:59 PM
To: Begell, Gregg - Consultant
Subject: L.A. County Enhanced Watershed Management Program, comments on Notice of Preparation

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TRANSMITTAL

DATE: October 29, 2014

TO: Gregg BeGell, P.E.
County of Los Angeles, Department of Public Works/LACo Flood Control District
900 South Fremont Avenue, 5th Floor Alhambra, CA 91803
gbegell@dpw.lacounty.gov

CC: **Gloria Molina, LACo Supervisor**
Micheal Antonovich, LACo Supervisor
Sierra Club, Angeles Chapter, Water Committee
CCFAC Executive Director

FROM: **Dr. Tom Williams,**
Sierra Club, Angeles Chapter, Water Committee
Citizens Coalition For A Community
4117 Barrett Road, Los Angeles, CA 90032-1712
ctwilliams2012@yahoo.com, 323-528-9682

SUBJECT: **County of Los Angeles, Enhanced Watershed Management Plan**
Scoping for Programmatic EIR

RE: **COMMENTS for Enhanced Watershed Management Plan PEIR CS-CH#2014081106**
Based on NOP and other project information downloaded from www.LACoH2Osheds.com.

Thank you for the opportunities to comment on the Notice of Preparation/Initial Study (NOP/IS) and other Scoping documents related to the proposed LA County Enhanced Watershed Management Plan (EWMP). Also thank you for the extension of the deadline for such comments, I believe it was very helpful for our commenters.

I could have continued for many more pages but I have been exhausted by the lack of real effort on the part of the preparers to make the Enhanced Watershed Program project meaningful, adequate, and complete and initially assess its secondary and tertiary impacts for knowledgeable public reviewers. Unfortunately the current NOP/IS and supporting documents appears to be an initial version of the vague program that has been developed by others, rather than a project or even program level DEIR preparation and is in need of major technical additions, editing, technical, and other revisions. The Scoping documents are inadequate and incomplete for the purposes of Scoping, and Scoping documents must updated, revised, and reissued. If you need further clarifications and many more comments, I am available for discussions or correspondence with your staff.

Dr. TW: Background: 40+ years with Worldwide/California water resources, management plans, water supplies, water distribution and transmission systems, and remote water resources development, with preparation, review, and commenting for 300+ EIRs/EISs/EAs (1972 to Date) and with 30+ years in Parsons and URS Corporations, 12+ years with Dubai Govt./Dubai World, and 6+years with Sierra Club Angeles Chapter (Water, Transportation, and Oil and Gas Comtes) and Citizens Coalition for a Safe Community.

Thank you for the opportunity to review and comment. Our comments form two parts: general and specific comments, as shown below for the Section and the two segments.

I have tried to provide citations in comment format with Doc./page/paragraph. Where appropriate, text has been inserted from documents and emphasis added usually as **bolded/underlines**. **Comments/Requests are added in bolded/italics.**

Dr. Tom Williams
323-528-9682

1. GENERAL COMMENTS

1-1 Scoping and Project/Program Purposes and Needs

The Program description for any DEIR or PDEIR must include the basis of the project: Purposes, Needs Goals, Objectives,

Absence of clearly defined purposes and need, goals and objectives, and priorities renders both the Program and Projects virtually non-reviewable and thereby inadequate and incomplete for public review and comment.

Without purposes and needs/goals and objectives, the public and reviewers cannot be expected to provide reasonable alternatives.

NOP/IS

p.1/par.2 The **purpose** of the MS4 Permit is to ensure Permittees are not causing or contributing to exceedances of water quality **objectives** or impairments of beneficial uses in the receiving waters of the Los Angeles region.

7/3 2.2 States are required not only to identify these "water quality limited segments" but also to prioritize such waters for the **purpose of developing Total Maximum Daily Loads** (TMDLs).

9/5 4.1.1 Capture and Use BMPs collect and use stormwater where applicable for **purposes** such as irrigation.

1/3 The overarching **goal** of BMPs in the EWMP is to reduce the impact of stormwater and non-stormwater on receiving water 2/1 quality and address the water quality priorities as defined by the MS4 Permit.

2/1 The development of each EWMP will involve the evaluation and selection of multiple BMP types, including nonstructural (institutional) and distributed, centralized, and regional structural watershed control measures, that will be implemented to meet **compliance goals and strategies under the 2012 MS4 Permit**.

8/7 The overarching **goal** of BMPs in the EWMPs is to reduce the impact of stormwater and non-stormwater on receiving water quality and to address water conservation and the water quality **priorities**.

11/3 The MS4 permit allows Permittees to customize MCMs to address high-priority water quality **goals** within their watersheds.

13/2 The PEIR will examine the project's effects on global climate change and evaluate consistency of the project with the State's GHG emissions reduction **goals**.

Scoping Meeting - Pic 4

- **Project Purpose:** MS4 Permit Compliance (R4-2012-0175)
 - Each Permittee is responsible for its local MS4 compliance
 - Permit compliance through EWMPs
- 12 NOIs submitted to LARWQCB
- Collectively prepared by participating Permittees
 - Los Angeles Regional Water Quality Control Board (LARWQCB) approves EWMPs

1-2 PEIR Contents

1-2 Total lack of reference to assignment of significance and related mitigation.

NOP/IS lacks clear definition and presentation as to potential effects, scopes, and schedules of the program and related projects and their implementation, construction, and operations.

As a water resources project, the physical changes represent a small portion of the overall potential effect of the program and projects, and the NOP does not reflect the systemic nature of water resources effects on the environment.

The NOP and the PDEIR and PjDEIRs must clearly provide a Scope for each basin, schedules, and related environmental sectors, a Schedule for "implementation", construction, and "operations" (?=forever).

The PEIR will -

"result from implementation of the projects and management actions identified in each EWMP

"result from the construction and operation of EWMP projects,

"focus on potential effects.

"assess the physical changes...including direct, indirect, and cumulative impacts.

"identify mitigation measures to minimize potentially significant impacts of each EWMP.

"anticipated to evaluate...following preliminary listing of environmental issues.

1-3. Environmental Resources, Setting, and Effects - Employment, Costs, Revenues, and Socioeconomics

Employment, Costs, Revenues, and Socioeconomics Although mentions are made regarding economic and employment effects related to the Program and its projects, no costs-benefits, financials/funding sources, or other revenues assessments are included in the NOP.

Similarly, socioeconomics for major infrastructure programs and projects are closely related to "Environmental Justice" of those receiving benefits and those experiencing adverse effects directly through water-related operations and indirectly through direct/indirect payments for such effects and prospective benefits for those with much largely parcels and incomes.

5/1 The primary approach to each of the EWMPs, as identified in the Draft Work Plans, includes identifying community-friendly, cost-effective methods of reducing urban runoff pollution and incorporating distributed and centralized structural and nonstructural watershed control measures for a multi-pollutant, multi-benefit approach.

8/3 The EWMPs include multi-benefit stormwater management projects that may also provide environmental, aesthetic, recreational, water supply, and/or other community enhancements cost-effective manner.

11/1 Most institutional BMPs are implemented to meet Minimum Control Measure (MCM) requirements in the MS4 permit; MCMs are considered a subset of institutional BMPs. MCMs do not involve construction of facilities that physically remove pollutants, but may involve costs associated with the procurement and installation of items such as signage or spill response kits.

12.3 Air Quality Construction and operation of EWMP projects could cause air emissions...vehicle trips associated with any increases in employment....

14/3 Population...The PEIR will, however, identify current population and employment projections...

1-4 Controversies Regarding Program/Projects --- Stormwater Fees

Since the LACo Board of Supervisors have experienced significant controversy regarding the imposition of parcel fees for stormwater revenue and funding and has further created controversies regarding reassignment of parcel-area fees to parcel only fees, a thorough review of the economic, employment, and environmental justice issues must be addressed and defined for the NOP/IS,

As currently understood but avoided in Water agency and County presentations, an increase (e.g., x2+) in LACo stormwater fees would be applied on a parcel basis (no matter the size of parcel) as being proposed under the 2014 Measure P initiative which has no relationship to stormwater runoff and effects, compared to the current Recreation and Parks 1990s initiative which are based on parcel area (sqft) fees. For stormwater generation, area is directly related stormwater generation (e.g., 5000sqft may generate less runoff than 50,000sqft lots).

Therefore the NOP has not discussed the socioeconomic effects and related Environmental Justice issues related to the proposed program and the related controversy. A thorough assessment of all related revenue/costs issues must be presented in the PDEIR, including sources of revenues, revenue streams for life-of-project costs (especially for operations, maintenance, and replacements), basis for revenues (by parcel or by parcel-area), and Environmental Justice (which is not mentioned any where in the NOP/IS or presentation).

1-5 Mitigation Measures

Inconsistency uses and lack of definitions for most if not all related terms.

activities of "develop", "identify", "proposed", or "evaluate".

to reduce potential, reduce the level, reduce potential adverse effect, any significant effects, to avoid,

are reduced or avoided, recommend

Vague generalities are presented and are so inconsistently applied within the same or related paragraphs as to render the entire presentation as useless.

The PDEIR must clearly present in matrices with links to discussions and appendices the project and program effects (quantified/ranked), levels of significance for each sector/parameter, criteria levels for significances, proposed mitigations/compensations for significant effects, and a quantitative ranking of the effects levels following mitigation/compensation.

Lack of Mitigation

1-6 No measures are mentioned for many sectors but no basis could be established for such omissions, and comparable effects could be expected within these sectors similar to those that had need for measures mentioned.

12/2 Aesthetics **No mitigation mentioned.**

12/4 Biology... **No mitigation mentioned.**

13/2 Greenhouse Gases **No mitigation mentioned.**

13/6 Land Use... **No mitigation mentioned.**

14/4 Public Services... **No mitigation mentioned.**

15/1 The PEIR will **evaluate potential energy consumption** associated with implementation of structural and nonstructural BMPs. **No mitigation mentioned for Energy**

1-7 Mitigation, protection, and other measures and strategies are mentioned along with textual review of environmental sector but without any clear and concise statement of what they are, when they would be used, and how they could affect impacts, effects, and conditions.

Mitigation measures in the Scoping NOP/IS are inconsistently mentioned as shown below.

Mitigation or compensation is required by CEQA for significant impacts.

Although mitigation is mentioned in the NOP/IS, mitigation and compensation are not mentioned in the Scoping Presentation slides; in reverse of "Alternatives", not mentioned in NOP/IS but present once in the Presentation.

Various terms - without definitions and consistent uses.

Protection measures mitigation strategies

significant effects

significant impacts

potentially necessary significant impacts

mitigate secondary effects of growth

As lead agency for the program LACo must clearly state the sole responsibility for thorough and consistent implementation in all projects of CEQA compliance and consistency of impact mitigation and compensation (including Environmental Justice and Socioeconomics).

The recirculated NOP/IS and PDEIR must provide a thorough presentation of:

Definitions of all related terms,

Process and quantified analyses for establishing the level of effects, mitigation, and remaining adverse effects and potential subjects of compensation,

Consistency of mitigations amongst all watersheds,

All current mitigation and compensation measures planned or anticipated by the Program and Project proponents, and

Explanation of absence of mitigation or compensation.

Examples

12/3 Air Quality...The PEIR...will **develop** mitigation measures if necessary to **reduce potential impacts**.

12/5 Cultural Resources Mitigation measures will be **identified** if necessary to **reduce the level of impact where possible**.

13/1 Geology... The PEIR will identify mitigation measures if necessary to **reduce potential adverse effects** to proposed facilities.

13/3 Hazards... Mitigation measures will be **proposed** if necessary to **reduce any significant effects** of the project...encountered during construction would be handled in accordance with applicable regulations.

13/4 Hydrology... The PEIR will identify stormwater quality **protection measures** required during construction and operation of proposed facilities. The PEIR also will **evaluate** potential impacts to flood control capacity and **develop mitigation strategies** if necessary **to avoid significant impacts**.

13/5 The PEIR will **evaluate** potential effects of increased storm water recharge and will identify mitigation measures if necessary to ensure that **potentially necessary significant impacts are reduced or avoided**.

14/2 Noise... The PEIR will **recommend mitigation strategies** to ensure that proposed EWMP projects implemented by local agencies comply with local noise policies and ordinances.

14/3 Population... The PEIR will...identify local planning jurisdictions with the authority to approve growth and **mitigate secondary effects of growth**.

14/5 Traffic... The PEIR will **identify mitigation strategies to reduce any potential effects**.

14/6 Utilities... The PEIR will **evaluate the project's potential to affect utilities** and will **identify mitigation measures to minimize the effects**.

1-8 Alternatives *Although the project proponent has chosen to prepare an Environmental Impact Report, no mention is made regarding alternatives in the Initial Study/NOP. Only one reference to alternatives in all available related documents occurs in Slide 28, "Issues to be Analyzed" in the PEIR Scoping Presentation.*

As the preparer included one reference to Alternatives, complete exclusion of such from the IS/NOP represents an arbitrary and incomplete presentation of CEQA documents. Without a clear concise statement of purposes and needs (goals and objectives, etc.), reasonable alternatives cannot be developed through the public participation and have not been developed by the watershed stakeholders.

LACo must revise and recirculate the NOP.

LACo must include a thorough description of Purposes and Needs for the project, quantification of such P&Ns, detailed quantified analyses as to how the Program achieves such P&Ns, basis for development of other alternative programs and projects within each alternative, and an assessment as to the best available alternative.

Some prospective alternatives include:

*Single parcel fee assessment for 20-plus year full Administration, O&M and replacements;
Parcel-Area fee assessment for 20-plus year full Administration, O&M and replacements;
Hybrid Parcel-Area/Runoff fee assessment for 20-plus year full Administration, O&M and replacements;*

Zero-Parcel Discharge Assessment and fee adjustment for 20-plus year full Administration, O&M and replacements;

Large-Parcel and Large Discharge Assessment and fee increments for 20-plus year full Administration, O&M and replacements;

Full capture and recharge of flows of >100cfs from all waterways;

1-9 Mitigation Monitoring and Report Plan *The Draft Programmatic Environmental Impact Reports must include draft plans for the implementation, monitoring, and enforcements of the Mitigation Monitoring, and Reporting Plan for the Program. Also the PDEIR and draft Programmatic MMR Plan must provide the descriptions and process for funding, staffing, means, monitoring, enforcement, and reporting for the public for the monitoring of all Project-Level activities and compliance which must be subject to noticing/subscriptions, public reviews, and comment as part of the project-DEIR processes and not wait until the "Final EIR" is circulated for projects.*

1-10 Scoping Report *Because of the poor development of the NOP/IS and lack of coordination between the LACo efforts and those projected for the individual Project DEIRs and dispersed responsibilities for compliance and responsibilities, following the October 29th deadline for these comments, we request that LACo recirculate the entire NOP/IS, and if not done issue a Scoping Report ass to the LACo responses to comments and the table of contents for the PDEIR in order to establish the level of incorporation provided for the Scoping comments herein.*

1-11 *As indicated elsewhere many terms have been used and will be used inconsistently in the NOP/IS and Scoping Presentation and has created confusion and such must be avoided in the PDEIR.*

The PDEIR must contain a single glossary and set of definitions for all terms for the PDEIR, and preparers and editors must assure full and specific compliance and consistency for all usage. Such a glossary may be included as an appendix with proper references throughout the PDEIR.

1-12 Program Compliance and Monitoring *The LACo, Department of Public Works, Flood Control District is assumed to be in charge of the EWMP Program and has 12 groups responsible for specific areas and is related to the Los Angeles Regional Water Quality Control Board through the MS4 permit and sub-permits for water quality and flows within the Program regional and*

area watersheds. No formal agreement has been presented as part of the NOP/IS and discussion seems to differ between the NOP/IS and the Scoping Presentation. As the LACFCD is scoping the PDEIR, reviewers must assume that only the LACo shall answer to the LARWQCB for compliance and monitoring for the next 20 years and that LACo shall have the powers, staffing, expertise, and funding to assure compliance of 12 different agencies/sub-permittees.

The Program description of the PDEIR must clearly and concisely present the administrative and operational arrangement and oversight assurance mechanisms to achieve implementation of all aspects of the MS4 permit and sub-permits and any and all CEQA and MS4 permit terms, conditions, mitigations, and compensations which may be related the Program and its projects. All contractual, regulatory, and judicial records must be provided as appendices and referenced within the text.

1-13 During a 20+ year Program, Implementation and Enforcement of all elements for 12+ different plans represent a major quality control/assurance and management and must be provided with adequate enforcement capabilities and support. The LACo, Department of Public Works, Flood Control District is assumed to be in charge of the EWMP Program and has 12 groups responsible for implementation, completion, and enforcement activities related to but in addition to those of the Los Angeles Regional Water Quality Control Board through the MS4 permit and sub-permits for water quality and flows within the Program regional and area watersheds.

No formal management and enforcement agreement has been presented as part of the NOP/IS and the Scoping Presentation. As the LACFCD is scoping the PDEIR, reviewers must assume that only the LACo shall answer to the LARWQCB for implementation and enforcements for the next 20 years and that LACo shall have the powers, staffing, expertise, and funding to assure implementation and enforcement with 12 different agencies/sub-permittees.

Fundamentally, will LACFCD or LARWQCB assess penalties against the sub-permittees for lack of timely implementation, achievement, and penalties.

The Program description of the PDEIR must clearly and concisely present the administrative and operational arrangement and quality-controls/assurance processes to achieve initiation and completion of all aspects of the MS4 permit and sub-permits and assignment of penalties , both financial and organizational for any and all CEQA and MS4 permits which may be related the Program and its projects. The LACFCD must also have the specific powers to assume direct authority over any projects under its responsibilities to the LARWQCB, and such must be documented within the PDEIR and PFEIR as appendices and referenced within the text

Environmental Sectors

2-1 No mention is made of "wetlands" which are often not included under either riparian (trees and bushes with dry land beneath) or aquatic habitats (open and standing water). Although this is one of the few specific habitats with federal and special protections, it is not mentioned which indicates the lack of background on the preparers part or a specific avoidance of controversial issues. The current NOP/IS lack competence, adequacy, and completeness for the public and stakeholder to review and comment upon the scope and specificity required for the PDEIR and subsequent PjDEIRs.

Revise and recirculate the entire NOP/IS and related documents.

The recirculation NOP/IS and the PDEIR must contain a general map of the Program and area maps for each of the projects with the following:

**all existing delineated riparian, wetlands, and aquatic habitats;
related existing upstream and adjacent infiltration, recharge, and liquefaction areas;
potential groundwater movement patterns for 1500ft upstream and downstream of wetlands and riparian habitats; and
current surface water flows for 1500ft upstream and downstream of wetlands and riparian habitats.**

12/4 Biological Resources Implementation of the EWMP projects could occur within existing sensitive habitats...result in changes to wildlife habitat, disruption of natural movement corridors, fragmentation or isolation of wildlife habitats, and disturbance of sensitive species during construction or operation...could alter riparian and aquatic habitats. The PEIR will evaluate the

potential for such facilities to impact biological resources and will also discuss local ordinances and state and federal regulations governing biological resources.

2-2 Geology and Groundwater *Slight mention is made of groundwater, infiltration, recharge, and related liquefaction although much of the stormwater reduction must depend upon groundwater storage of captured runoff. The General Plan has not specific policies regarding changing the entire groundwater regime by massive expansion of septic tank/leach field system in another LACo project (i.e., Hauled Water Initiative) and this Programs LID and related recharge systems.*

No information has been provided as to where recharge/infiltration areas are in relation to liquefaction zones and their drier extensions of alluvium and other permeable soils and bedrock.

The recirculation NOP/IS and the PDEIR must contain a general map of the Program and area maps for each of the projects with the following:

All geologically potential recharge/infiltration areas, existing recharging project, and proposed recharging areas and of all areas with more than 10 septic tanks per any 100 acres;

Currently delineated liquefaction areas and geologically similar surface materials which are not now considered as liquefiable due to lack of high groundwater tables;

Known groundwater levels and elevations of stream beds downslope of the groundwater tables; and

Anticipated local and project recharging rates.

12/6 5. Geology, Soils, and Seismicity Southern Los Angeles County is a seismically active region. The proposed EWMP BMPs would require construction of structural BMPs that could be subject to potential seismic and geologic hazards, including 13/1 ground shaking, liquefaction, soil stability conditions, soil erosion rates, expansive soils, and landslides. Policies provided in the County's General Plan and applicable standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects...

13/4 Hydrology and Water Quality Implementation of the proposed EWMP BMPs may change local drainage patterns at construction sites,...which could affect the hydrology, hydraulics, and/or water quality of streams, rivers, and other receiving waters...The PEIR also will evaluate potential impacts to flood control capacity and develop mitigation strategies if necessary to avoid significant impacts.

13/5 Implementation of the proposed EWMP BMPs would likely result in increased infiltration and recharge in various locations throughout the EWMP watersheds. Such activities could affect local groundwater levels and water quality. The PEIR will evaluate potential effects of increased storm water recharge and will identify mitigation measures if necessary to ensure that potentially necessary significant impacts are reduced or avoided.

2-3 Hazards and Groundwater Recharge *No mention is made regarding the influence of groundwater movements upon hazards and hazardous materials in the soil/alluvium/bedrock context. Groundwater plumes have cause major expansions of underground contamination from storage tanks and contaminated soil. Contaminated groundwater in the northeastern and western San Fernando Valley and elsewhere are known to be migrating based on the groundwater flows and basin pumping for water supplies.*

Current LACo policies do not reflect the responsibilities and liabilities of LACo approved watershed plans causing the changes of hazardous materials migration induced by groundwater flows fed by LACo and agency approved recharge/infiltration projects.

No information has been provided as to where recharge/infiltration areas, groundwater flows, and known or expected contaminated groundwater and soils, and potential routes for plume migration through extensions of alluvium and other permeable soils and bedrock.

The recirculation NOP/IS and the PDEIR must contain a general map of the Program and projects' area maps with the following:

Known subsurface contaminated soils and groundwater and active remediation sites;

Known pump/treat/use or pump/treat/recharge projects;

Current and expected recharge/infiltration areas; and

Known/Expected groundwater migration pathways.

13/3 Hazards and Hazardous Materials Excavation during construction of proposed EWMP BMPs could uncover contaminated soils or hazardous substances that pose a substantial hazard

to human health or the environment...The policies provided in the County's General Plan and any standard County requirements will be evaluated as to their effect of mitigating or avoiding any potentially significant effects.

2-4 Socioeconomics (including Total and Disposal Incomes, Employment, Existing Infrastructure Costs, and Property and Other Revenues)

No information has been provided as to any socioeconomic setting, effects, and mitigation for the program or the projects.

The recirculation NOP/IS and the PDEIR must contain an overall socioeconomic review of the Program area and separate project area for each of the projects with the following:

Educational, employment, age/gender, and other socioeconomic parameters to characterize the areas for the Program and its projects;

Incomes, Current Taxes and Fees, and other Ability-To-Pay parameters to characterize the areas for the Program and its projects;

Existing Special Assessment Districts and Other Urban Costs for Local Residents and Property Owners for the Program's and its projects' areas; and

State and conditions of existing infrastructure and potential for major future projects in the same Program's and its projects' areas.

2-5 "Environmental Justice" No information has been provided as to any information regarding the setting, effects, and mitigation for the program or the projects related to issues of Environmental Justice.

The recirculation NOP/IS and the PDEIR must contain an overall and specific projects' Environmental Justice review of the similar major infrastructure programs and projects as related to those receiving benefits and those experiencing adverse effects directly through water-related operations and indirectly through direct/indirect payments for such effects and prospective benefits for those with much largely parcels and incomes.

2-6 Mitigation Monitoring and Reporting Plan The Draft Programmatic and Draft Project Environmental Impact Reports must include tiered draft plans for the implementation, monitoring, and enforcements of the Mitigation Monitoring, and Reporting Plan which will be subject to public review and comment as part of the DEIR processes and not wait until the "Final EIR" is circulated.



Edmund G. Brown Jr.
Governor

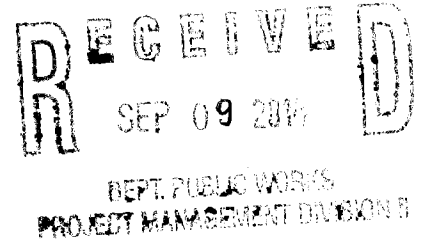
STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

Notice of Preparation

August 29, 2014



To: Reviewing Agencies

Re: Enhanced Watershed Management Programs (EWMP) Program EIR
SCH# 2014081106

Attached for your review and comment is the Notice of Preparation (NOP) for the Enhanced Watershed Management Programs (EWMP) Program EIR draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Gregg BeGell
Los Angeles County Flood Control District
900 South Fremont Avenue, 11th Floor
Alhambra, CA 91803

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Attachments
cc: Lead Agency

**Document Details Report
State Clearinghouse Data Base**

SCH# 2014081106
Project Title Enhanced Watershed Management Programs (EWMP) Program EIR
Lead Agency Los Angeles County Flood Control District

Type **NOP** Notice of Preparation

Description The development of the EWMP will involve the evaluation and selection of multiple watershed control measures or best management practices (BMP) types including non-structural and distributed, centralized and regional structural BMPs. These BMPs will be implemented to meet compliance goals and strategies under the 2014 MS4 Permit. Structural BMPs involve the construction of a physical control measure to alter the hydrology and/or water quality of incoming stormwater or non-stormwater. The three major functions for structural BMPs are infiltration, water quality treatment, and storage. These are three categories of structural BMPs, defined by the runoff area treated by the BMP and the required retention volume in accordance with the Permit.

Lead Agency Contact

Name Gregg BeGell
Agency Los Angeles County Flood Control District
Phone 626 300 3298 **Fax**
email
Address 900 South Fremont Avenue, 11th Floor
City Alhambra **State** CA **Zip** 91803

Project Location

County Los Angeles
City Los Angeles, City of
Region
Cross Streets Throughout Los Angeles County
Lat / Long
Parcel No. Various
Township **Range** **Section** **Base**

Proximity to:

Highways Various
Airports LAX, Burbank
Railways Various
Waterways Various
Schools Various
Land Use Various land uses throughout the County

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Flood Plain/Flooding; Geologic/Seismic; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Soil Erosion/Compaction/Grading; Toxic/Hazardous; Traffic/Circulation; Water Quality; Vegetation; Water Supply; Wetland/Riparian; Wildlife; Cumulative Effects; Other Issues

Reviewing Agencies Resources Agency; Coachella Valley Mountains Conservancy; Department of Parks and Recreation; Department of Water Resources; Department of Fish and Wildlife, Headquarters; Department of Fish and Wildlife, Marine Region; Native American Heritage Commission; Santa Monica Bay Restoration; Caltrans, District 7; Air Resources Board; State Water Resources Control Board, Division of Water Quality; State Water Resources Control Board, Division of Water Rights; Regional Water Quality Control Board, Region 4; San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy; Santa Monica Mountains Conservancy

Date Received 08/29/2014 **Start of Review** 08/29/2014 **End of Review** 09/29/2014

| | | | | |
|---|---|---|---|--|
| <input checked="" type="checkbox"/> <u>Resources Agency</u> Nadell Gayou | <input type="checkbox"/> Fish & Wildlife Region 1E Laurie Hainsberger | <input type="checkbox"/> Native American Heritage Comm. Debbie Treadway | <input type="checkbox"/> Caltrans, District 8 Dan Kopulsky | <input type="checkbox"/> Regional Water Quality Control Board (RWQCB) |
| <input type="checkbox"/> Dept. of Boating & Waterways Nicole Wong | <input type="checkbox"/> Fish & Wildlife Region 2 Jeff Drongesen | <input type="checkbox"/> Public Utilities Commission Leo Wong | <input type="checkbox"/> Caltrans, District 9 Gayle Rosander | <input type="checkbox"/> RWQCB 1 Cathleen Hudson |
| <input checked="" type="checkbox"/> California Coastal Commission Elizabeth A. Fuchs | <input type="checkbox"/> Fish & Wildlife Region 3 Charles Armor | <input checked="" type="checkbox"/> Santa Monica Bay Restoration Guangyu Wang | <input type="checkbox"/> Caltrans, District 10 Tom Dumas | <input type="checkbox"/> RWQCB 2 Environmental Document Coordinator |
| <input type="checkbox"/> Colorado River Board Lisa Johansen | <input type="checkbox"/> Fish & Wildlife Region 4 Julie Vance | <input type="checkbox"/> State Lands Commission Jennifer Deleong | <input type="checkbox"/> Caltrans, District 11 Jacob Armstrong | <input type="checkbox"/> RWQCB 3 San Francisco Bay Region (2) |
| <input type="checkbox"/> Dept. of Conservation Elizabeth Carpenter | <input type="checkbox"/> Fish & Wildlife Region 5 Leslie Newton-Reed Habitat Conservation Program | <input type="checkbox"/> Tahoe Regional Planning Agency (TRPA) Cherry Jacques | <input type="checkbox"/> Caltrans, District 12 Maureen El Harake | <input type="checkbox"/> RWQCB 4 Central Coast Region (3) |
| <input type="checkbox"/> California Energy Commission Eric Knight | <input type="checkbox"/> Fish & Wildlife Region 6 Tiffany Ellis Habitat Conservation Program | <input type="checkbox"/> Business, Trans & Housing | <input type="checkbox"/> RWQCB 5 Central Valley Region (5) | <input type="checkbox"/> RWQCB 5F Central Valley Region (5) Fresno Branch Office |
| <input type="checkbox"/> Cal Fire Dan Foster | <input type="checkbox"/> Fish & Wildlife Region 6 I/M Heidi Sickler Inyo/Mono, Habitat Conservation Program | <input type="checkbox"/> Caltrans - Division of Aeronautics Philip Crimmins | <input type="checkbox"/> RWQCB 5R Central Valley Region (5) Redding Branch Office | <input type="checkbox"/> RWQCB 6 Lahontan Region (6) |
| <input type="checkbox"/> Central Valley Flood Protection Board James Herota | <input checked="" type="checkbox"/> Dept. of Fish & Wildlife M George Isaac Marine Region | <input type="checkbox"/> Caltrans - Planning Terri Pencovic | <input type="checkbox"/> RWQCB 6V Lahontan Region (6) Victorville Branch Office | <input type="checkbox"/> RWQCB 7 Colorado River Basin Region (7) |
| <input type="checkbox"/> Office of Historic Preservation Ron Parsons | <input type="checkbox"/> Other Departments | <input type="checkbox"/> California Highway Patrol Suzann Ikeuchi Office of Special Projects | <input type="checkbox"/> RWQCB 8 Santa Ana Region (8) | <input type="checkbox"/> RWQCB 9 San Diego Region (9) |
| <input type="checkbox"/> Dept of Parks & Recreation Environmental Stewardship Section | <input type="checkbox"/> Food & Agriculture Sandra Schubert Dept. of Food and Agriculture | <input type="checkbox"/> Housing & Community Development CEQA Coordinator Housing Policy Division | <input type="checkbox"/> RWQCB 8 Santa Ana Region (8) | |
| <input type="checkbox"/> California Department of Resources, Recycling & Recovery Sue O'Leary | <input type="checkbox"/> Dept. of General Services Public School Construction | <input type="checkbox"/> Air Resources Board All Other Projects Cathi Slaminski | <input type="checkbox"/> RWQCB 9 San Diego Region (9) | |
| <input type="checkbox"/> S.F. Bay Conservation & Dev't Comm. Steve McAdam | <input type="checkbox"/> Dept. of General Services Anna Garbeff Environmental Services Section | <input type="checkbox"/> Transportation Projects Nesamani Kalandiyur | | |
| <input checked="" type="checkbox"/> Dept. of Water Resources Agency Nadell Gayou | <input type="checkbox"/> Delta Stewardship Council Kevan Samsan | <input type="checkbox"/> Industrial Projects Mike Tollstrup | | |
| <input type="checkbox"/> Fish and Game | <input type="checkbox"/> Independent Commissions, Boards | <input type="checkbox"/> State Water Resources Control Board Regional Programs Unit Division of Financial Assistance | | |
| <input type="checkbox"/> Dept. of Fish & Wildlife Scott Flint Environmental Services Division | <input type="checkbox"/> Delta Protection Commission Michael Machado | <input type="checkbox"/> State Water Resources Control Board Jeffery Werth Division of Drinking Water | | |
| <input type="checkbox"/> Fish & Wildlife Region 1 Donald Koch | <input type="checkbox"/> OES (Office of Emergency Services) Dennis Castrillo | <input type="checkbox"/> State Water Resources Control Board Student Intern, 401 Water Quality Certification Unit Division of Water Quality | | |
| | | <input checked="" type="checkbox"/> State Water Resources Control Board Phil Crader Division of Water Rights | | |
| | | <input type="checkbox"/> Dept. of Toxic Substances Control CEQA Tracking Center | | |
| | | <input type="checkbox"/> Department of Pesticide Regulation CEQA Coordinator | | |
| | | <input type="checkbox"/> Other AND LA RIVER CONSERVATION SANTA ANA MTR Conservancy | | |

Appendix C

CalEEMod Air Quality Data



Centralized BMP South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|------|-------------------|-------------|--------------------|------------|
| User Defined Industrial | 0.00 | User Defined Unit | 10.00 | 435,600.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 9 | | | Operational Year | 2015 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 1227.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2ac, 2,000 sq. feet

Construction Phase - correct days/ratios

Off-road Equipment - Equipment for Blding Const

Off-road Equipment - Equipment for Grading

Off-road Equipment - Equipment for Site Prep

Grading - ac. disturbed

Construction Off-road Equipment Mitigation -

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays | 230.00 | 33.00 |
| tblConstructionPhase | NumDays | 20.00 | 17.00 |

| | | | |
|---------------------------|----------------------------|-------|------------|
| tblConstructionPhase | NumDays | 10.00 | 16.00 |
| tblGrading | AcresOfGrading | 17.00 | 10.00 |
| tblGrading | AcresOfGrading | 0.00 | 10.00 |
| tblGrading | MaterialExported | 0.00 | 45,173.00 |
| tblLandUse | LandUseSquareFeet | 0.00 | 435,600.00 |
| tblLandUse | LotAcreage | 0.00 | 10.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 3.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2015 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 12.3264 | 165.4322 | 117.0269 | 0.2835 | 18.9218 | 4.8885 | 23.8103 | 8.3619 | 4.4971 | 12.8590 | 0.0000 | 28,945.2292 | 28,945.2292 | 1.3553 | 0.0000 | 28,973.6910 |
| Total | 12.3264 | 165.4322 | 117.0269 | 0.2835 | 18.9218 | 4.8885 | 23.8103 | 8.3619 | 4.4971 | 12.8590 | 0.0000 | 28,945.2292 | 28,945.2292 | 1.3553 | 0.0000 | 28,973.6910 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 12.3264 | 165.4322 | 117.0269 | 0.2835 | 11.7891 | 4.8885 | 16.6776 | 4.6586 | 4.4971 | 9.1557 | 0.0000 | 28,945.2292 | 28,945.2292 | 1.3553 | 0.0000 | 28,973.6910 |
| Total | 12.3264 | 165.4322 | 117.0269 | 0.2835 | 11.7891 | 4.8885 | 16.6776 | 4.6586 | 4.4971 | 9.1557 | 0.0000 | 28,945.2292 | 28,945.2292 | 1.3553 | 0.0000 | 28,973.6910 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 37.70 | 0.00 | 29.96 | 44.29 | 0.00 | 28.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 11.3906 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 11.3906 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 11.3906 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 11.3906 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 4/1/2015 | 4/22/2015 | 5 | 16 | |
| 2 | Grading | Grading | 4/23/2015 | 5/15/2015 | 5 | 17 | |
| 3 | Building Construction | Building Construction | 5/16/2015 | 7/1/2015 | 5 | 33 | |

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Excavators | 2 | 6.00 | 162 | 0.38 |
| Site Preparation | Other General Industrial Equipment | 1 | 8.00 | 87 | 0.34 |
| Site Preparation | Rubber Tired Dozers | 0 | 8.00 | 255 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 0 | 8.00 | 162 | 0.38 |
| Grading | Graders | 2 | 8.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 2 | 8.00 | 255 | 0.40 |
| Grading | Scrapers | 0 | 8.00 | 361 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 7.00 | 226 | 0.29 |
| Building Construction | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 5,647.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 183.00 | 71.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6628 | 0.0000 | 0.6628 | 0.0716 | 0.0000 | 0.0716 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.1028 | 20.9856 | 14.5647 | 0.0198 | | 1.4545 | 1.4545 | | 1.3381 | 1.3381 | | 2,081.4286 | 2,081.4286 | 0.6214 | | 2,094.4779 |
| Total | 2.1028 | 20.9856 | 14.5647 | 0.0198 | 0.6628 | 1.4545 | 2.1173 | 0.0716 | 1.3381 | 1.4097 | | 2,081.4286 | 2,081.4286 | 0.6214 | | 2,094.4779 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0709 | 0.0951 | 0.9938 | 1.9900e-003 | 0.1677 | 1.4800e-003 | 0.1691 | 0.0445 | 1.3500e-003 | 0.0458 | | 173.3466 | 173.3466 | 9.9400e-003 | | 173.5553 |
| Total | 0.0709 | 0.0951 | 0.9938 | 1.9900e-003 | 0.1677 | 1.4800e-003 | 0.1691 | 0.0445 | 1.3500e-003 | 0.0458 | | 173.3466 | 173.3466 | 9.9400e-003 | | 173.5553 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |

| | | | | | | | | | | | | | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|
| Fugitive Dust | | | | | 0.2983 | 0.0000 | 0.2983 | 0.0322 | 0.0000 | 0.0322 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.1028 | 20.9856 | 14.5647 | 0.0198 | | 1.4545 | 1.4545 | | 1.3381 | 1.3381 | 0.0000 | 2,081.4286 | 2,081.4286 | 0.6214 | | 2,094.4779 |
| Total | 2.1028 | 20.9856 | 14.5647 | 0.0198 | 0.2983 | 1.4545 | 1.7528 | 0.0322 | 1.3381 | 1.3704 | 0.0000 | 2,081.4286 | 2,081.4286 | 0.6214 | | 2,094.4779 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0709 | 0.0951 | 0.9938 | 1.9900e-003 | 0.1677 | 1.4800e-003 | 0.1691 | 0.0445 | 1.3500e-003 | 0.0458 | | 173.3466 | 173.3466 | 9.9400e-003 | | 173.5553 |
| Total | 0.0709 | 0.0951 | 0.9938 | 1.9900e-003 | 0.1677 | 1.4800e-003 | 0.1691 | 0.0445 | 1.3500e-003 | 0.0458 | | 173.3466 | 173.3466 | 9.9400e-003 | | 173.5553 |

3.3 Grading - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 12.9685 | 0.0000 | 12.9685 | 6.7333 | 0.0000 | 6.7333 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.3907 | 57.3739 | 36.7654 | 0.0365 | | 3.1019 | 3.1019 | | 2.8538 | 2.8538 | | 3,836.9708 | 3,836.9708 | 1.1455 | | 3,861.0263 |
| Total | 5.3907 | 57.3739 | 36.7654 | 0.0365 | 12.9685 | 3.1019 | 16.0704 | 6.7333 | 2.8538 | 9.5871 | | 3,836.9708 | 3,836.9708 | 1.1455 | | 3,861.0263 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 6.8648 | 107.9632 | 79.2677 | 0.2451 | 5.7856 | 1.7851 | 7.5707 | 1.5842 | 1.6420 | 3.2261 | | 24,934.918 | 24,934.9118 | 0.1999 | | 24,939.1094 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0709 | 0.0951 | 0.9938 | 1.9900e-003 | 0.1677 | 1.4800e-003 | 0.1691 | 0.0445 | 1.3500e-003 | 0.0458 | | 173.3466 | 173.3466 | 9.9400e-003 | | 173.5553 |
| Total | 6.9357 | 108.0583 | 80.2615 | 0.2470 | 5.9533 | 1.7866 | 7.7399 | 1.6286 | 1.6433 | 3.2719 | | 25,108.2583 | 25,108.2583 | 0.2098 | | 25,112.6648 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 5.8358 | 0.0000 | 5.8358 | 3.0300 | 0.0000 | 3.0300 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.3907 | 57.3739 | 36.7654 | 0.0365 | | 3.1019 | 3.1019 | | 2.8538 | 2.8538 | 0.0000 | 3,836.9708 | 3,836.9708 | 1.1455 | | 3,861.0263 |
| Total | 5.3907 | 57.3739 | 36.7654 | 0.0365 | 5.8358 | 3.1019 | 8.9377 | 3.0300 | 2.8538 | 5.8837 | 0.0000 | 3,836.9708 | 3,836.9708 | 1.1455 | | 3,861.0263 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--------------------|--------------------|---------------|--|--------------------|
| Hauling | 6.8648 | 107.9632 | 79.2677 | 0.2451 | 5.7856 | 1.7851 | 7.5707 | 1.5842 | 1.6420 | 3.2261 | | 24,934.918 | 24,934.918 | 0.1999 | | 24,939.1094 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0709 | 0.0951 | 0.9938 | 1.9900e-003 | 0.1677 | 1.4800e-003 | 0.1691 | 0.0445 | 1.3500e-003 | 0.0458 | | 173.3466 | 173.3466 | 9.9400e-003 | | 173.5553 |
| Total | 6.9357 | 108.0583 | 80.2615 | 0.2470 | 5.9533 | 1.7866 | 7.7399 | 1.6286 | 1.6433 | 3.2719 | | 25,108.2583 | 25,108.2583 | 0.2098 | | 25,112.6648 |

3.4 Building Construction - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.4820 | 25.4773 | 18.6212 | 0.0269 | | 1.9712 | 1.9712 | | 1.8869 | 1.8869 | | 2,633.9358 | 2,633.9358 | 0.5358 | | 2,645.1874 |
| Total | 3.4820 | 25.4773 | 18.6212 | 0.0269 | | 1.9712 | 1.9712 | | 1.8869 | 1.8869 | | 2,633.9358 | 2,633.9358 | 0.5358 | | 2,645.1874 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.7370 | 7.1583 | 9.1286 | 0.0154 | 0.4436 | 0.1221 | 0.5657 | 0.1263 | 0.1123 | 0.2386 | | 1,553.3543 | 1,553.3543 | 0.0127 | | 1,553.6200 |
| Worker | 0.8645 | 1.1604 | 12.1246 | 0.0243 | 2.0455 | 0.0180 | 2.0635 | 0.5425 | 0.0165 | 0.5590 | | 2,114.8280 | 2,114.8280 | 0.1213 | | 2,117.3749 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Total | 1.6015 | 8.3187 | 21.2532 | 0.0397 | 2.4891 | 0.1401 | 2.6292 | 0.6688 | 0.1288 | 0.7976 | | 3,668.1823 | 3,668.1823 | 0.1339 | | 3,670.9949 |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 3.4820 | 25.4773 | 18.6212 | 0.0269 | | 1.9712 | 1.9712 | | 1.8869 | 1.8869 | 0.0000 | 2,633.9358 | 2,633.9358 | 0.5358 | | 2,645.1874 |
| Total | 3.4820 | 25.4773 | 18.6212 | 0.0269 | | 1.9712 | 1.9712 | | 1.8869 | 1.8869 | 0.0000 | 2,633.9358 | 2,633.9358 | 0.5358 | | 2,645.1874 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.7370 | 7.1583 | 9.1286 | 0.0154 | 0.4436 | 0.1221 | 0.5657 | 0.1263 | 0.1123 | 0.2386 | | 1,553.3543 | 1,553.3543 | 0.0127 | | 1,553.6200 |
| Worker | 0.8645 | 1.1604 | 12.1246 | 0.0243 | 2.0455 | 0.0180 | 2.0635 | 0.5425 | 0.0165 | 0.5590 | | 2,114.8280 | 2,114.8280 | 0.1213 | | 2,117.3749 |
| Total | 1.6015 | 8.3187 | 21.2532 | 0.0397 | 2.4891 | 0.1401 | 2.6292 | 0.6688 | 0.1288 | 0.7976 | | 3,668.1823 | 3,668.1823 | 0.1339 | | 3,670.9949 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.515437 | 0.060435 | 0.179988 | 0.139880 | 0.041945 | 0.006639 | 0.015487 | 0.028746 | 0.001918 | 0.002517 | 0.004333 | 0.000596 | 0.002079 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | | | | | | | | | | | | | | | | | |
|-------|--|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|--------|--------|--------|--------|--------|
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|-------|--|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|--------|--------|--------|--------|--------|

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Mitigated | 11.3906 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |
| Unmitigated | 11.3906 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 2.7658 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 8.6249 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 11.3906 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 2.7658 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 8.6249 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 11.3906 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

Distributed BMP South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|------|-------------------|-------------|--------------------|------------|
| User Defined Industrial | 0.00 | User Defined Unit | 2.00 | 87,120.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 9 | | | Operational Year | 2015 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 1227.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2ac, 2,000 sq. feet

Construction Phase - correct days/ratios

Off-road Equipment - Equipment for Blding Const

Off-road Equipment - Equipment for Grading

Off-road Equipment - Equipment for Site Prep

Grading - ac. disturbed

Construction Off-road Equipment Mitigation -

Trips and VMT - VMT trips reduced

| Table Name | Column Name | Default Value | New Value |
|----------------|------------------------------|---------------|-----------|
| tblAreaCoating | Area_Nonresidential_Interior | 130680 | 3000 |

| | | | |
|---------------------------|----------------------------|----------|-----------|
| tblConstructionPhase | NumDays | 200.00 | 14.00 |
| tblConstructionPhase | NumDays | 2.00 | 5.00 |
| tblGrading | AcresOfGrading | 1.00 | 2.00 |
| tblGrading | AcresOfGrading | 0.00 | 2.00 |
| tblGrading | MaterialExported | 0.00 | 9,000.00 |
| tblLandUse | LandUseSquareFeet | 0.00 | 87,120.00 |
| tblLandUse | LotAcreage | 0.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 4.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 6.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2015 |
| tblTripsAndVMT | HaulingTripNumber | 1,125.00 | 989.00 |
| tblTripsAndVMT | VendorTripNumber | 14.00 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 6.6754 | 96.4709 | 69.9358 | 0.1942 | 8.1916 | 2.2393 | 10.4309 | 2.9538 | 2.0599 | 5.0137 | 0.0000 | 19,775.326 | 19,775.3226 | 0.4893 | 0.0000 | 19,785.5988 |
| Total | 6.6754 | 96.4709 | 69.9358 | 0.1942 | 8.1916 | 2.2393 | 10.4309 | 2.9538 | 2.0599 | 5.0137 | 0.0000 | 19,775.326 | 19,775.3226 | 0.4893 | 0.0000 | 19,785.5988 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 6.6754 | 96.4709 | 69.9358 | 0.1942 | 6.1039 | 2.2393 | 8.3432 | 1.9908 | 2.0599 | 4.0507 | 0.0000 | 19,775.326 | 19,775.3226 | 0.4893 | 0.0000 | 19,785.5988 |
| Total | 6.6754 | 96.4709 | 69.9358 | 0.1942 | 6.1039 | 2.2393 | 8.3432 | 1.9908 | 2.0599 | 4.0507 | 0.0000 | 19,775.326 | 19,775.3226 | 0.4893 | 0.0000 | 19,785.5988 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 25.49 | 0.00 | 20.01 | 32.60 | 0.00 | 19.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|---------------|---------------|---------------|---------------|---------------|
| Area | 1.8728 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 1.8728 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.8728 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 1.8728 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 3/1/2015 | 3/6/2015 | 5 | 5 | |
| 2 | Grading | Grading | 3/7/2015 | 3/12/2015 | 5 | 4 | |

| | | | | | | |
|---|-----------------------|-----------------------|-----------|----------|---|----|
| 3 | Building Construction | Building Construction | 3/13/2015 | 4/1/2015 | 5 | 14 |
|---|-----------------------|-----------------------|-----------|----------|---|----|

Acres of Grading (Site Preparation Phase): 2

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Excavators | 1 | 8.00 | 162 | 0.38 |
| Site Preparation | Graders | 0 | 8.00 | 174 | 0.41 |
| Site Preparation | Other General Industrial Equipment | 1 | 8.00 | 87 | 0.34 |
| Site Preparation | Scrapers | 0 | 8.00 | 361 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Grading | Graders | 1 | 4.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 4.00 | 255 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 989.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 37.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.4242 | 0.0000 | 0.4242 | 0.0458 | 0.0000 | 0.0458 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0837 | 10.8309 | 7.3875 | 0.0102 | | 0.7300 | 0.7300 | | 0.6716 | 0.6716 | | 1,066.8039 | 1,066.8039 | 0.3185 | | 1,073.4921 |
| Total | 1.0837 | 10.8309 | 7.3875 | 0.0102 | 0.4242 | 0.7300 | 1.1542 | 0.0458 | 0.6716 | 0.7174 | | 1,066.8039 | 1,066.8039 | 0.3185 | | 1,073.4921 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0378 | 0.0507 | 0.5300 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4515 | 92.4515 | 5.3000e-003 | | 92.5628 |
| Total | 0.0378 | 0.0507 | 0.5300 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4515 | 92.4515 | 5.3000e-003 | | 92.5628 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.1909 | 0.0000 | 0.1909 | 0.0206 | 0.0000 | 0.0206 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0837 | 10.8309 | 7.3875 | 0.0102 | | 0.7300 | 0.7300 | | 0.6716 | 0.6716 | 0.0000 | 1,066.8039 | 1,066.8039 | 0.3185 | | 1,073.4921 |
| Total | 1.0837 | 10.8309 | 7.3875 | 0.0102 | 0.1909 | 0.7300 | 0.9209 | 0.0206 | 0.6716 | 0.6922 | 0.0000 | 1,066.8039 | 1,066.8039 | 0.3185 | | 1,073.4921 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0378 | 0.0507 | 0.5300 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4515 | 92.4515 | 5.3000e-003 | | 92.5628 |
| Total | 0.0378 | 0.0507 | 0.5300 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4515 | 92.4515 | 5.3000e-003 | | 92.5628 |

3.3 Grading - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |

| | | | | | | | | | | | | | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Fugitive Dust | | | | | 3.7957 | 0.0000 | 3.7957 | 1.7509 | 0.0000 | 1.7509 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5279 | 16.0596 | 10.4042 | 0.0107 | | 0.9098 | 0.9098 | | 0.8370 | 0.8370 | | 1,122.9865 | 1,122.9865 | 0.3353 | | 1,130.0270 |
| Total | 1.5279 | 16.0596 | 10.4042 | 0.0107 | 3.7957 | 0.9098 | 4.7055 | 1.7509 | 0.8370 | 2.5879 | | 1,122.9865 | 1,122.9865 | 0.3353 | | 1,130.0270 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 5.1097 | 80.3606 | 59.0016 | 0.1824 | 4.3064 | 1.3287 | 5.6351 | 1.1791 | 1.2222 | 2.4013 | | 18,559.8845 | 18,559.8845 | 0.1488 | | 18,563.0090 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0378 | 0.0507 | 0.5300 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4515 | 92.4515 | 5.3000e-003 | | 92.5628 |
| Total | 5.1475 | 80.4113 | 59.5316 | 0.1835 | 4.3958 | 1.3295 | 5.7253 | 1.2029 | 1.2229 | 2.4258 | | 18,652.3360 | 18,652.3360 | 0.1541 | | 18,655.5718 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.7081 | 0.0000 | 1.7081 | 0.7879 | 0.0000 | 0.7879 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5279 | 16.0596 | 10.4042 | 0.0107 | | 0.9098 | 0.9098 | | 0.8370 | 0.8370 | 0.0000 | 1,122.9865 | 1,122.9865 | 0.3353 | | 1,130.0270 |
| Total | 1.5279 | 16.0596 | 10.4042 | 0.0107 | 1.7081 | 0.9098 | 2.6179 | 0.7879 | 0.8370 | 1.6249 | 0.0000 | 1,122.9865 | 1,122.9865 | 0.3353 | | 1,130.0270 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 5.1097 | 80.3606 | 59.0016 | 0.1824 | 4.3064 | 1.3287 | 5.6351 | 1.1791 | 1.2222 | 2.4013 | | 18,559.8845 | 18,559.8845 | 0.1488 | | 18,563.0090 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0378 | 0.0507 | 0.5300 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4515 | 92.4515 | 5.3000e-003 | | 92.5628 |
| Total | 5.1475 | 80.4113 | 59.5316 | 0.1835 | 4.3958 | 1.3295 | 5.7253 | 1.2029 | 1.2229 | 2.4258 | | 18,652.3360 | 18,652.3360 | 0.1541 | | 18,655.5718 |

3.4 Building Construction - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.0613 | 13.7974 | 10.4618 | 0.0150 | | 1.0709 | 1.0709 | | 1.0282 | 1.0282 | | 1,442.0192 | 1,442.0192 | 0.3024 | | 1,448.3690 |
| Total | 2.0613 | 13.7974 | 10.4618 | 0.0150 | | 1.0709 | 1.0709 | | 1.0282 | 1.0282 | | 1,442.0192 | 1,442.0192 | 0.3024 | | 1,448.3690 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--------|-----------------|-----------------|---------------|--|-----------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1748 | 0.2346 | 2.4514 | 4.9100e-003 | 0.4136 | 3.6400e-003 | 0.4172 | 0.1097 | 3.3400e-003 | 0.1130 | | 427.5882 | 427.5882 | 0.0245 | | 428.1031 |
| Total | 0.1748 | 0.2346 | 2.4514 | 4.9100e-003 | 0.4136 | 3.6400e-003 | 0.4172 | 0.1097 | 3.3400e-003 | 0.1130 | | 427.5882 | 427.5882 | 0.0245 | | 428.1031 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.0613 | 13.7974 | 10.4618 | 0.0150 | | 1.0709 | 1.0709 | | 1.0282 | 1.0282 | 0.0000 | 1,442.0192 | 1,442.0192 | 0.3024 | | 1,448.3690 |
| Total | 2.0613 | 13.7974 | 10.4618 | 0.0150 | | 1.0709 | 1.0709 | | 1.0282 | 1.0282 | 0.0000 | 1,442.0192 | 1,442.0192 | 0.3024 | | 1,448.3690 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1748 | 0.2346 | 2.4514 | 4.9100e-003 | 0.4136 | 3.6400e-003 | 0.4172 | 0.1097 | 3.3400e-003 | 0.1130 | | 427.5882 | 427.5882 | 0.0245 | | 428.1031 |

| | | | | | | | | | | | | | | | | |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|--------|--|----------|
| Total | 0.1748 | 0.2346 | 2.4514 | 4.9100e-003 | 0.4136 | 3.6400e-003 | 0.4172 | 0.1097 | 3.3400e-003 | 0.1130 | | 427.5882 | 427.5882 | 0.0245 | | 428.1031 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--|----------|----------|--------|--|----------|

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.515437 | 0.060435 | 0.179988 | 0.139880 | 0.041945 | 0.006639 | 0.015487 | 0.028746 | 0.001918 | 0.002517 | 0.004333 | 0.000596 | 0.002079 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.8728 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 1.8728 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |

| | | | | | | | | | | | | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|--|---------------|
| Architectural Coating | 0.1478 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.7250 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 1.8728 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1478 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.7250 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 1.8728 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

Regional BMP South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|------|-------------------|-------------|--------------------|------------|
| User Defined Industrial | 0.00 | User Defined Unit | 40.00 | 1,742,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 9 | | | Operational Year | 2015 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 1227.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2ac, 2,000 sq. feet

Construction Phase - correct days/ratios

Off-road Equipment - Equipment for Bldg Const

Off-road Equipment - Equipment for Grading

Off-road Equipment - Equipment for Site Prep

Grading - ac. disturbed

Construction Off-road Equipment Mitigation -

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays | 740.00 | 65.00 |
| tblConstructionPhase | NumDays | 75.00 | 20.00 |

| | | | |
|---------------------------|----------------------------|-----------|--------------|
| tblConstructionPhase | NumDays | 30.00 | 25.00 |
| tblConstructionPhase | PhaseEndDate | 7/31/2015 | 8/1/2015 |
| tblConstructionPhase | PhaseEndDate | 4/3/2015 | 4/4/2015 |
| tblGrading | AcresOfGrading | 20.00 | 40.00 |
| tblGrading | AcresOfGrading | 0.00 | 40.00 |
| tblGrading | MaterialExported | 0.00 | 90,346.00 |
| tblLandUse | LandUseSquareFeet | 0.00 | 1,742,400.00 |
| tblLandUse | LotAcreage | 0.00 | 40.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 6.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2015 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 18.5176 | 256.2670 | 184.4165 | 0.4654 | 30.7563 | 6.8767 | 37.6330 | 12.9892 | 6.3260 | 19.3151 | 0.0000 | 47,469.4995 | 47,469.4995 | 1.8018 | 0.0000 | 47,507.3371 |
| | | | | | | | | | | | | 95 | 5 | | | 1 |

| | | | | | | | | | | | | | | | | |
|-------|---------|----------|----------|--------|---------|--------|---------|---------|--------|---------|--------|-----------------|-----------------|--------|--------|-----------------|
| Total | 18.5176 | 256.2670 | 184.4165 | 0.4654 | 30.7563 | 6.8767 | 37.6330 | 12.9892 | 6.3260 | 19.3151 | 0.0000 | 47,469.49 95 | 47,469.499 5 | 1.8018 | 0.0000 | 47,507.337 1 |
|-------|---------|----------|----------|--------|---------|--------|---------|---------|--------|---------|--------|-----------------|-----------------|--------|--------|-----------------|

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 18.5176 | 256.2670 | 184.4165 | 0.4654 | 19.3724 | 6.8767 | 26.2491 | 7.3588 | 6.3260 | 13.6848 | 0.0000 | 47,469.49 95 | 47,469.499 5 | 1.8018 | 0.0000 | 47,507.337 1 |
| Total | 18.5176 | 256.2670 | 184.4165 | 0.4654 | 19.3724 | 6.8767 | 26.2491 | 7.3588 | 6.3260 | 13.6848 | 0.0000 | 47,469.49 95 | 47,469.499 5 | 1.8018 | 0.0000 | 47,507.337 1 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 37.01 | 0.00 | 30.25 | 43.35 | 0.00 | 29.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 45.5626 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

| | | | | | | | | | | | | | | | | |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total | 45.5626 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 45.5626 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Total | 45.5626 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 3/1/2015 | 4/4/2015 | 5 | 25 | |
| 2 | Grading | Grading | 4/5/2015 | 5/1/2015 | 5 | 20 | |
| 3 | Building Construction | Building Construction | 5/2/2015 | 8/1/2015 | 5 | 65 | |

Acres of Grading (Site Preparation Phase): 40

Acres of Grading (Grading Phase): 40

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Excavators | 3 | 8.00 | 162 | 0.38 |
| Site Preparation | Other General Industrial Equipment | 3 | 8.00 | 87 | 0.34 |
| Site Preparation | Rubber Tired Dozers | 2 | 8.00 | 255 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 0 | 8.00 | 162 | 0.38 |
| Grading | Graders | 2 | 8.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 3 | 8.00 | 255 | 0.40 |
| Grading | Scrapers | 0 | 8.00 | 361 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 3 | 6.00 | 97 | 0.37 |
| Building Construction | Cranes | 0 | 7.00 | 226 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 4 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 4 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 12 | 30.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 11,293.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 12 | 732.00 | 286.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.7410 | 0.0000 | 13.7410 | 6.8037 | 0.0000 | 6.8037 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.4281 | 67.2729 | 48.3602 | 0.0537 | | 4.0026 | 4.0026 | | 3.6824 | 3.6824 | | 5,641.3776 | 5,641.3776 | 1.6842 | | 5,676.7455 |
| Total | 6.4281 | 67.2729 | 48.3602 | 0.0537 | 13.7410 | 4.0026 | 17.7436 | 6.8037 | 3.6824 | 10.4861 | | 5,641.3776 | 5,641.3776 | 1.6842 | | 5,676.7455 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1417 | 0.1902 | 1.9876 | 3.9800e-003 | 0.3353 | 2.9500e-003 | 0.3383 | 0.0889 | 2.7100e-003 | 0.0916 | | 346.6931 | 346.6931 | 0.0199 | | 347.1106 |
| Total | 0.1417 | 0.1902 | 1.9876 | 3.9800e-003 | 0.3353 | 2.9500e-003 | 0.3383 | 0.0889 | 2.7100e-003 | 0.0916 | | 346.6931 | 346.6931 | 0.0199 | | 347.1106 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

| Category | lb/day | | | | | | | | | | lb/day | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-------------------|
| Fugitive Dust | | | | | 6.1834 | 0.0000 | 6.1834 | 3.0617 | 0.0000 | 3.0617 | | | 0.0000 | | 0.0000 |
| Off-Road | 6.4281 | 67.2729 | 48.3602 | 0.0537 | | 4.0026 | 4.0026 | | 3.6824 | 3.6824 | 0.0000 | 5,641.3776 | 5,641.3776 | 1.6842 | 5,676.7455 |
| Total | 6.4281 | 67.2729 | 48.3602 | 0.0537 | 6.1834 | 4.0026 | 10.1861 | 3.0617 | 3.6824 | 6.7441 | 0.0000 | 5,641.3776 | 5,641.3776 | 1.6842 | 5,676.7455 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1417 | 0.1902 | 1.9876 | 3.9800e-003 | 0.3353 | 2.9500e-003 | 0.3383 | 0.0889 | 2.7100e-003 | 0.0916 | | 346.6931 | 346.6931 | 0.0199 | | 347.1106 |
| Total | 0.1417 | 0.1902 | 1.9876 | 3.9800e-003 | 0.3353 | 2.9500e-003 | 0.3383 | 0.0889 | 2.7100e-003 | 0.0916 | | 346.6931 | 346.6931 | 0.0199 | | 347.1106 |

3.3 Grading - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 20.6981 | 0.0000 | 20.6981 | 10.2371 | 0.0000 | 10.2371 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.7539 | 72.6190 | 48.3483 | 0.0462 | | 3.8403 | 3.8403 | | 3.5331 | 3.5331 | | 4,852.7740 | 4,852.7740 | 1.4488 | | 4,883.1979 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|-------------------|-------------------|---------------|--|-------------------|
| Total | 6.7539 | 72.6190 | 48.3483 | 0.0462 | 20.6981 | 3.8403 | 24.5384 | 10.2371 | 3.5331 | 13.7701 | | 4,852.7740 | 4,852.7740 | 1.4488 | | 4,883.1979 |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|-------------------|-------------------|---------------|--|-------------------|

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 11.6691 | 183.5212 | 134.7432 | 0.4166 | 9.8347 | 3.0344 | 12.8691 | 2.6928 | 2.7911 | 5.4839 | | 42,385.5968 | 42,385.5968 | 0.3398 | | 42,392.7321 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0945 | 0.1268 | 1.3251 | 2.6600e-003 | 0.2236 | 1.9700e-003 | 0.2255 | 0.0593 | 1.8000e-003 | 0.0611 | | 231.1287 | 231.1287 | 0.0133 | | 231.4071 |
| Total | 11.7636 | 183.6480 | 136.0682 | 0.4192 | 10.0582 | 3.0364 | 13.0946 | 2.7521 | 2.7929 | 5.5450 | | 42,616.7255 | 42,616.7255 | 0.3530 | | 42,624.1392 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.3142 | 0.0000 | 9.3142 | 4.6067 | 0.0000 | 4.6067 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.7539 | 72.6190 | 48.3483 | 0.0462 | | 3.8403 | 3.8403 | | 3.5331 | 3.5331 | 0.0000 | 4,852.7740 | 4,852.7740 | 1.4488 | | 4,883.1979 |
| Total | 6.7539 | 72.6190 | 48.3483 | 0.0462 | 9.3142 | 3.8403 | 13.1545 | 4.6067 | 3.5331 | 8.1398 | 0.0000 | 4,852.7740 | 4,852.7740 | 1.4488 | | 4,883.1979 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 11.6691 | 183.5212 | 134.7432 | 0.4166 | 9.8347 | 3.0344 | 12.8691 | 2.6928 | 2.7911 | 5.4839 | | 42,385.5968 | 42,385.5968 | 0.3398 | | 42,392.7321 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0945 | 0.1268 | 1.3251 | 2.6600e-003 | 0.2236 | 1.9700e-003 | 0.2255 | 0.0593 | 1.8000e-003 | 0.0611 | | 231.1287 | 231.1287 | 0.0133 | | 231.4071 |
| Total | 11.7636 | 183.6480 | 136.0682 | 0.4192 | 10.0582 | 3.0364 | 13.0946 | 2.7521 | 2.7929 | 5.5450 | | 42,616.7255 | 42,616.7255 | 0.3530 | | 42,624.1392 |

3.4 Building Construction - 2015

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 5.4660 | 41.0093 | 29.6913 | 0.0444 | | 3.1411 | 3.1411 | | 3.0241 | 3.0241 | | 4,326.9233 | 4,326.9233 | 0.7964 | | 4,343.6475 |
| Total | 5.4660 | 41.0093 | 29.6913 | 0.0444 | | 3.1411 | 3.1411 | | 3.0241 | 3.0241 | | 4,326.9233 | 4,326.9233 | 0.7964 | | 4,343.6475 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------|--------------------|--------------------|---------------|--------|--------------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.9688 | 28.8349 | 36.7715 | 0.0619 | 1.7868 | 0.4919 | 2.2787 | 0.5088 | 0.4523 | 0.9611 | | 6,257.1737 | 6,257.1737 | 0.0510 | | 6,258.2440 |
| Worker | 3.4581 | 4.6417 | 48.4982 | 0.0972 | 8.1820 | 0.0720 | 8.2540 | 2.1699 | 0.0660 | 2.2359 | | 8,459.3118 | 8,459.3118 | 0.4851 | | 8,469.4996 |
| Total | 6.4269 | 33.4766 | 85.2697 | 0.1591 | 9.9689 | 0.5639 | 10.5328 | 2.6787 | 0.5183 | 3.1970 | | 14,716.4855 | 14,716.4855 | 0.5361 | | 14,727.7437 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 5.4660 | 41.0093 | 29.6913 | 0.0444 | | 3.1411 | 3.1411 | | 3.0241 | 3.0241 | 0.0000 | 4,326.9233 | 4,326.9233 | 0.7964 | | 4,343.6475 |
| Total | 5.4660 | 41.0093 | 29.6913 | 0.0444 | | 3.1411 | 3.1411 | | 3.0241 | 3.0241 | 0.0000 | 4,326.9233 | 4,326.9233 | 0.7964 | | 4,343.6475 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 2.9688 | 28.8349 | 36.7715 | 0.0619 | 1.7868 | 0.4919 | 2.2787 | 0.5088 | 0.4523 | 0.9611 | | 6,257.1737 | 6,257.1737 | 0.0510 | | 6,258.2440 |
| Worker | 3.4581 | 4.6417 | 48.4982 | 0.0972 | 8.1820 | 0.0720 | 8.2540 | 2.1699 | 0.0660 | 2.2359 | | 8,459.3118 | 8,459.3118 | 0.4851 | | 8,469.4996 |
| Total | 6.4269 | 33.4766 | 85.2697 | 0.1591 | 9.9689 | 0.5639 | 10.5328 | 2.6787 | 0.5183 | 3.1970 | | 14,716.4855 | 14,716.4855 | 0.5361 | | 14,727.7437 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.515437 | 0.060435 | 0.179988 | 0.139880 | 0.041945 | 0.006639 | 0.015487 | 0.028746 | 0.001918 | 0.002517 | 0.004333 | 0.000596 | 0.002079 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 45.5626 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Unmitigated | 45.5626 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|--------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 11.0631 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |

| | | | | | | | | | | | | | | | | |
|-------------------|----------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|---------------|---------------|---------------|---------------|
| Consumer Products | 34.4995 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 45.5626 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|---------------|---------------|---------------|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 11.0631 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 34.4995 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | | 0.0000 |
| Total | 45.5626 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

Appendix D

Sensitive Natural Communities Descriptions



APPENDIX D

Sensitive Natural Communities Descriptions

California Walnut Woodland¹

Description: Similar to and intergrading with Interior Live Oak Woodland or Coast Live Oak Woodland, but with a more open tree canopy dominated by *Juglans californica*. The open tree canopy allows development of a grassy understory. In most sites, this understory is composed of introduced winter-active annuals that complete most of their growth cycle before the deciduous *Juglans* leafs out in spring.

Site Factors: On relatively moist, fine-textured soils of valley slopes and bottoms, as well as encircling rocky outcrops. These drier, rocky sites often support Venturan or Riversidian Sage Scrub. Intergrades with Coast Live Oak Woodland or Coast Live Oak Forest on more mesic sites, especially in canyons.

Characteristic Species: *Juglans californica*, *Quercus agrifolia*, *Q. engelmannii*, *Rhus ovata*, *R. trilobata*, [*Bromus rubens*],[*Marrubium vulgare*]

Distribution: South side of San Gabriel Mountains to the Santa Ana Mountains, mostly between 500 feet and 3,000 feet.

Canyon Live Oak Ravine Forest*

Description: Similar to Coast Live Oak Forest, but usually denser and not so tall. Dominated by *Quercus chrysolepis*, a broadleaved sclerophyll. Typically forms forests with little understory up to 20 m tall in canyons. Trees often with multiple trunks, probably from crown-sprouting after fires. Growing season from late spring into summer, similar to that of Lower Montane Coniferous Forests.

Site Factors: Transitional between low elevation broadleaved forests and higher elevation coniferous forests. On rocky, often steep slopes with little soil development. Typically in canyons and on north-facing slopes at relatively low elevations and on south-facing slopes at higher elevations. At higher elevations with colder winters than Mixed Evergreen Forest, Blue Oak Woodland, Coast Live Oak Forest or Californian Mixed Chaparral. Often adjacent to Montane Chaparral on dry slopes or lower Montane Coniferous Forest on less rocky soils. May intergrade with any of the above vegetation types and is not always distinct from them.

Characteristic Species: *Calocedrus decurrens*, *Lithocarpus densiflorus*, *Pinus coulteri* (Southern Coast Ranges), *Pseudotsuga menziesii*, *Quercus chrysolepis*, *Umbellularia californica*

¹ Descriptions taken from: Holland, R. F. 1986. Preliminary descriptions of the terrestrial natural communities of California. Unpublished report. State of California, The Resources Agency, Department of Fish and Game, Natural Heritage Division, Sacramento, California. Please note: Many species names have changed since the preparation of this document. Also, brackets denote species that are non-native.

Distribution: Inner Northern Coast Ranges from Siskiyou County to Lake County, Southern Coast Ranges from Mount Diablo to Monterey County. West slope of the Sierra Nevada from Tehama County to Kern County at elevations of 1,000 to 4,000 feet in the north and 3,000 to 6,000 feet in the south. Replaced by the closely related Bigcone Spruce-Canyon Oak Forest in the Transverse and Peninsular Ranges of Southern California.

Mainland Cherry Forest

Stands of hollyleaf cherry (*Prunus ilicifolia*) on steep, dry, north-facing slopes with rocky, sandstone-derived soils. Plants most often seen as shrubs, but may reach tree size. Stands with large trees are exceptional (California Native Plant Society).

Open Engelmann Oak Woodland*

Description: An evergreen woodland quite reminiscent of Blue Oak Woodland but dominated by *Quercus engelmannii* with an understory of typical “grassland” species.

Site Factors: Relatively moist sites on fine-textured soils of gentle slopes and valley bottoms. Intergrades with Venturan or Riversidean Sage Scrubs on drier, rockier sites, and with Dense Engelmann Oak Woodland on more mesic sites. Often surrounds grassland portreros, occupying the ecotone between the grassland (on fine-textured, deep soils) and surrounding shrub fields (on rockier, drier sites).

Characteristic Species: *Juglans californica*, *Quercus agrifolia*, *Q. engelmannii*, *Rhus ovata*, *R. trilobata*

Distribution: Mainly in the Santa Ana Mountains of San Diego and adjacent Riverside counties, usually below about 4,000 feet.

Riversidean Alluvial Fan Sage Scrub*

Description: This is the most xeric expression of Coastal Sage Scrub south of Point Conception. Typical stands are fairly open and dominated by *Artemisia californica*, *Eriogonum fasciculatum*, and [*Bromus rubens*], each attaining at least 20 percent cover.

Site Factors: Typically on xeric sites such as steep slopes, severely drained soils, or clays that released stored soil moisture only slowly. Intergrades at slightly higher elevations with several Southern Californian chaparrals.

Characteristic Species: *Artemisia californica*, *Atriplex canescens*, [*Bromus rubens*], *Encelia farinosa*, *Ericameria pinefolia*, *Eriodictyon crassifolium*, *Eriogonum fasciculatum*, *Gutierrezia californica*, *Ericameria linearifolia*, *Isomeris arboreus*, *Lotus scoparius*, *Malacothamnus fasciculatus*, *Salvia apiana*, *S. mellifera*, *Yucca whipplei parishii*

Distribution: Along the coastal base of the Transverse and Peninsular ranges from central Los Angeles County to the Mexican frontier.

Southern California Arroyo Chub/Santa Ana Sucker Stream

Streams used by arroyo chub (*Gila orcuttii*) and/or Santa Ana sucker (*Catostomus santaanae*).

Southern California Coastal Lagoon

Coastal lagoons in Southern California.

Southern California Threespine Stickleback Stream

Streams used by threespine stickleback (*Gasterosteus aculeatus*), typically slow-flowing waterways along the coast with emergent vegetation.

Southern Coast Live Oak Riparian Forest*

Description: Open to locally dense evergreen sclerophyllous riparian woodlands dominated by *Quercus agrifolia*. This type appears to be richer in herbs and poorer in understory shrubs than other riparian communities. Similar to and questionably distinct from Central Coast Live Oak Riparian Forest.

Site Factors: Bottomlands and outer floodplains along larger streams, on fine-grained, rich alluvium.

Characteristic species: *Acer macrophyllum*, *Artemisia douglasiana*, *Cardamine californica*, *Eucrypta chrysanthemifolia*, *Heteromeles arbutifolia*, *Keckiella cordifolia*, *Lonicera hispidula*, *Mara macrocarpus*, *Pholistoma auritum*, *Quercus agrifolia*, *Rhus trilobata*, *Rosa californica*, *Rubus ursinus*, *Sambucus Mexicana*, *Symphoricarpos mollis*, *Toxicodendron diversilobum*, *Umbellularia californica*

Distribution: Canyons and valleys of coastal Southern California, mostly south of Point Conception.

Southern Coastal Bluff Scrub*

Description: Similar to Northern Coastal Bluff Scrub (a low, often prostrate, scrub 5-50 cm high, forming continuous mats or more scattered. Dwarf shrubs, herbaceous perennials, and annuals are represented...), but plants less prostrate (up to 2 meters tall). Most plants woody and/or succulent. Most growth and flowering occur from late winter through spring.

Site Factors: Similar to Northern Coastal Bluff Scrub (exposed to nearly constant winds with high salt content; soil usually rocky and poorly developed), but conditions less extreme as a result of less intense but still moisture-laden winds. Intergrades in less exposed settings with Venturan Coastal Sage Scrub, or on finer-grained soils with Valley and Foothill Grassland.

Characteristic Species: *Atriplex* spp., *Calystegia cyclostegia*, *C. macrostegia*, *Castilleja affinis*, *Chorizanthe orcuttiana*, *Coreopsis gigantea*, *C. maritima*, *Dudleya* spp., *Encelia californica*, *Erigeron glaucus*, *Eriophyllum staechadifolium*, *Mesembryanthemum* sp., *Haploppappus* spp., *Malacothrix saxatilis*, *Marah macrocarpus*, [*Carpobrotus aequilateralis*], [*Mesembryanthemum crystallinum*], *Opuntia littoralis*, *Rhus integrifolia*

Distribution: At localized sites along the coast, south of Point Conception; Point Mugu, Point Dume, Point Vicente, Dana Point, Torrey Pines State Reserve, Point Loma, etc. Several sites on the off-shore islands.

Southern Coastal Salt Marsh*

Description: Similar to Northern Coastal Salt Marsh (highly productive, herbaceous and suffrutescent, salt-tolerant hydrophytes forming moderate to dense cover and up to 1 meter tall) but with a longer

growing season and greater abundance of suffrutescent species in the higher, drier sites. Southern “specialties” include *Atriplex watsonii*, *Batis maritima*, *Lycium californicum*, *Monanthochloe littoralis*, *Sueda californica*, and *Salicornia subterminalis*.

Site Factors: Very similar to Northern Coastal Salt Marsh (usually found along sheltered inland margins of bays, lagoons, and estuaries; these hydric soils are subject to regular tidal inundation by saltwater for at least part of each year) but with warmer water and air temperatures. *Frankenia*, *Sueda*, and/or *Salicornia subterminalis* often occur along the upper, landward edges of the marshes; *Salicornia bigelovii*, *S. virginica*, and *Batis maritima* at middle elevations; and *Spartina* closest to open water.

Characteristic Species: *Amblyopappus pusillus*, *Atriplex watsonii*, *Batis maritima*, *Cressa truxillensis*, *Cuscuta salina*, *Distichlis spicata* var. *spicata*, *Frankenia grandifolia*, *Heliotropium curassavicum*, *Jaumea carnosa*, *Juncus acutus sphaerocarpus*, *Limonium californicum*, [*Carpobrotus aequilateralis*], [*Mesembryanthemum crystalinum*], [*M. nodiflorum*], *Monanthochloe littoralis*, *Salicornia bigelovii*, *Salicornia* spp., *Spartina foliosa*, *Suaeda californica*

Distribution: Bays, lagoons, and estuaries along the coast from about Point Conception to the Mexican border. Intergrades broadly with Northern Coastal Salt Marsh along the south central coast. Nowhere as extensive as the larger northern marshes, and now considerably reduced by land development activities. Good to fair examples occur at Goleta Slough and near Carpinteria, Santa Barbara County; Point Mugu, Ventura County; Upper Newport Bay, Orange County; and several small areas in San Diego County.

Southern Cottonwood-Willow Riparian Forest*

Description: Tall, open, broadleaved winter-deciduous riparian forests dominated by *Populus fremontii*, *P. trichocarpa*, and several tree willows. Similar to Central Coast Cottonwood-Sycamore Riparian Forest, although apparently with less *Quercus agrifolia* or *Alnus rhombifolia* (this merits further study). Understories usually are shrubby willows.

Site Factors: Sub-irrigated and frequently overflowed lands along rivers and streams. The dominant species require moist, bare mineral soil for germination and establishment. This is provided after flood waters recede, leading to uniform-aged stands in this seral type.

Characteristic species: *Artemisia douglasiana*, *Baccaris viminea*, *Marah macrocarpus*, *Platanus racemosa*, *Populus fremontii*, *P. trichocarpa*, *Salix gooddingii*, *S. hindsiana*, *S. lasiandra*, *S. lasiolepis*, *Urtica holosericea*

Distribution: Along perennially wet stream reaches of the Transverse and Peninsular ranges, from Santa Barbara County south to Baja California Norte and east to the edge of the deserts.

Southern Dune Scrub*

Description: Similar to Central Dune Scrub (a dense coastal scrub community of scattered shrubs, subshrubs, and herbs, generally less than 1 meter tall and often developing considerable cover) but plants somewhat shorter and often succulent.

Site Factors: Similar to Central and Northern Dune Scrub (Central: restricted to the coast on ± stabilized backdune slopes, ridges, and flats), but drier and somewhat warmer and probably with less onshore wind. Intergrades toward the coast with Southern Foredunes and away from the coast on rockier soils with Venturan Sage Scrub, or Coastal Succulent Scrub.

Characteristic Species: *Atriplex leucophylla*, *Croton californicus*, *Ephedra californica*, *Ericameria ericoides*, *Haplopappus venetus vernonioides*, *Lupinus chamissonia*, *Lycium brevipes*,

[*Mesembryanthemum crystallinum*], *Opuntia littoralis*, *Rhus integrifolia*, *Simmondsia chinensis*
Distribution: Same general areas as Southern Foredunes (areas of sand accumulation along the coast between Point Conception and the Mexican border), but usually a little farther back from the coast. With the notable exception of the El Segundo Dunes, this community has been virtually eliminated from mainland Southern California. Other small examples persist in Baja California and the Channel Islands.

Southern Mixed Riparian Forest

Streamside forest with mixed species composition.

Southern Riparian Forest

Streamside forest with mixed species composition.

Southern Sycamore-Alder Riparian Woodland*

Description: A tall, open, broadleafed, winter-deciduous streamside woodland dominated by *Platanus racemosa* (and often also *Alnus rhombifolia*). These stands seldom form closed canopy forests, and even may appear as trees scattered in a shrubby thicket of sclerophyllous and deciduous species. Lianas include *Rubus ursinus* and *Toxicodendron diversilobum*. Distinctions between this type and Sycamore Alluvial Woodland merit additional study.

Site Factors: Very rocky streambeds subject to seasonally high-intensity flooding. *Alnus* increases in abundance on more perennial streams, while *Platanus* favors more intermittent hydrographs.

Characteristic Species: *Acer macrophyllum*, *Alnus rhombifolia*, *Artemisia douglasiana*, *Aralia californica*, *Equisetum hyemale*, *Oryzopsis miliacea*, *Quercus agrifolia*, *Rubus ursinus*, *Sambucus Mexicana*, *Toxicodendron diversilobum*, *Umbellularia californica*, *Urtica holsoericea*

Distribution: Transverse and Peninsular Ranges from Point Conception south into Baja California Norte.

Southern Willow Scrub*

Description: Dense, broadleafed, winter-deciduous riparian thickets dominated by several *Salix* species, with scattered emergent *Populus fremontii* and *Platanus racemosa*. Most stands are too dense to allow much understory development.

Site Factors: Loose, sandy, or fine gravelly alluvium deposited near stream channels during flood flows. This early seral type requires repeated flooding to prevent succession to Southern Cottonwood-Sycamore Riparian Forest.

Characteristic Species: Pluchea sericea, Populus fremontii, Salix gooddingii, S. hindsiana, S. laevigata arauipa, S. lasiandra, S. lasiolepis, S. leucodendroides, others?

Distribution: Formerly extensive along the major rivers of coastal Southern California, but now much reduced by urban expansion, flood control, and channel “improvements.”

Valley Oak Woodland*

Description: Similar to Northern Oak Woodland and Blue Oak Woodland, but typically more open, forming a grassy-understoried savanna rather than a closed woodland. *Quercus lobata* is usually the only tree present. This winter-deciduous species is California’s largest broad-leaved tree, with mature individuals reaching 15–35 meters. Most stands consist of open-canopy growth form trees and seldom exceed 30–40 percent absolute cover.

Site Factors: On deep, well-drained alluvial soils, usually in valley bottoms, apparently with more moisture in summer than in Blue Oak Woodland. Intergrades with Valley Oak Riparian Forest near rivers and with Blue Oak Woodland on drier slopes. Also found on non-alluvial settings in the South Coast and Transverse Ranges. Fire may have prevented some valley oak stands from succeeding to Ponderosa Pine or Coulter Pine forests before fire suppression.

Characteristic Species: Quercus lobata, Elymus triticoides, Toxicodendron diversilobum, Q. douglasii

Distribution: Sacramento and San Joaquin valleys adjacent to the Sierra Nevada foothills, valleys of the Coast Ranges from Lake County to western Los Angeles County. Usually below 2000 feet (610 meters).

Walnut Forest

Riparian corridors dominated by California walnut (*Juglans californica*). Other species present may include foothill ash (*Fraxinus dipetala*), coast live oak (*Quercus agrifolia*), Mexican elderberry (*Sambucus Mexicana*), and California bay (*Umbellularia californica*).

Appendix E

CNDDDB Species List



Selected Elements by Element Code
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Taxonomic Group is (Fish or Amphibians or Reptiles or Birds or Mammals or Mollusks or Arachnids or Crustaceans or Insects or Ferns or Gymnosperms or Monocots or Dicots or Lichens or Bryophytes) and County is (Los Angeles)

| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|---|----------------|--------------|-------------|------------|--------------------------------|
| AAAAD02110 | <i>Batrachoseps gabrieli</i> San Gabriel slender salamander | None | None | G2 | S2 | |
| AAAAD04011 | <i>Ensatina eschscholtzii croceator</i> yellow-blotched salamander | None | None | G5T3 | S3 | SSC |
| AAAAD04013 | <i>Ensatina klauberi</i> large-blotched salamander | None | None | G2G3 | S2S3 | SSC |
| AAAAF02032 | <i>Taricha torosa</i> Coast Range newt | None | None | G4 | S4 | SSC |
| AAABB01230 | <i>Anaxyrus californicus</i> arroyo toad | Endangered | None | G2G3 | S2S3 | SSC |
| AAABF02020 | <i>Spea hammondi</i> western spadefoot | None | None | G3 | S3 | SSC |
| AAABH01022 | <i>Rana draytonii</i> California red-legged frog | Threatened | None | G2G3 | S2S3 | SSC |
| AAABH01330 | <i>Rana muscosa</i> southern mountain yellow-legged frog | Endangered | Endangered | G1 | S1 | SSC |
| ABNDC04030 | <i>Oceanodroma homochroa</i> ashy storm-petrel | None | None | G2 | S2 | SSC |
| ABNGE02020 | <i>Plegadis chihi</i> white-faced ibis | None | None | G5 | S3S4 | WL |
| ABNKA03010 | <i>Gymnogyps californianus</i> California condor | Endangered | Endangered | G1 | S1 | |
| ABNKC06010 | <i>Elanus leucurus</i> white-tailed kite | None | None | G5 | S3 | FP |
| ABNKC10010 | <i>Haliaeetus leucocephalus</i> bald eagle | Delisted | Endangered | G5 | S2 | FP |
| ABNKC12040 | <i>Accipiter cooperii</i> Cooper's hawk | None | None | G5 | S3 | WL |
| ABNKC19070 | <i>Buteo swainsoni</i> Swainson's hawk | None | Threatened | G5 | S3 | |
| ABNKC19120 | <i>Buteo regalis</i> ferruginous hawk | None | None | G4 | S3S4 | WL |
| ABNKC22010 | <i>Aquila chrysaetos</i> golden eagle | None | None | G5 | S3 | FP |
| ABNKD06030 | <i>Falco columbarius</i> merlin | None | None | G5 | S3S4 | WL |
| ABNKD06071 | <i>Falco peregrinus anatum</i> American peregrine falcon | Delisted | Delisted | G4T4 | S3S4 | FP |



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California Department of Fish and Wildlife
California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---------------------|--|-----------------------|---------------------|--------------------|-------------------|---------------------------------------|
| ABNKD06090 | <i>Falco mexicanus</i> prairie falcon | None | None | G5 | S4 | WL |
| ABNME03041 | <i>Laterallus jamaicensis coturniculus</i> California black rail | None | Threatened | G4T1 | S1 | FP |
| ABNNB03031 | <i>Charadrius alexandrinus nivosus</i> western snowy plover | Threatened | None | G3T3 | S2 | SSC |
| ABNNB03100 | <i>Charadrius montanus</i> mountain plover | None | None | G3 | S2? | SSC |
| ABNNM08103 | <i>Sternula antillarum browni</i> California least tern | Endangered | Endangered | G4T2T3Q | S2S3 | FP |
| ABNNN07012 | <i>Synthliboramphus scrippsi</i> Scripps's murrelet | Candidate | Threatened | G3 | S2 | |
| ABNRB02022 | <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo | Proposed Threatened | Endangered | G5T3Q | S1 | |
| ABNSB10010 | <i>Athene cunicularia</i> burrowing owl | None | None | G4 | S3 | SSC |
| ABNSB13040 | <i>Asio flammeus</i> short-eared owl | None | None | G5 | S3 | SSC |
| ABNUA01010 | <i>Cypseloides niger</i> black swift | None | None | G4 | S2 | SSC |
| ABPAE33043 | <i>Empidonax traillii extimus</i> southwestern willow flycatcher | Endangered | Endangered | G5T1T2 | S1 | |
| ABPAT02011 | <i>Eremophila alpestris actia</i> California horned lark | None | None | G5T3Q | S3 | WL |
| ABPAU08010 | <i>Riparia riparia</i> bank swallow | None | Threatened | G5 | S2S3 | |
| ABPBG02095 | <i>Campylorhynchus brunneicapillus sandiegensis</i> coastal cactus wren | None | None | G5T3Q | S3 | SSC |
| ABPBJ08081 | <i>Poliophtila californica californica</i> coastal California gnatcatcher | Threatened | None | G3T2 | S2 | SSC |
| ABPBK06100 | <i>Toxostoma lecontei</i> Le Conte's thrasher | None | None | G4 | S3 | SSC |
| ABPBR01030 | <i>Lanius ludovicianus</i> loggerhead shrike | None | None | G4 | S4 | SSC |
| ABPBR01036 | <i>Lanius ludovicianus mearnsi</i> San Clemente loggerhead shrike | Endangered | None | G4T1Q | S1 | SSC |
| ABPBW01114 | <i>Vireo bellii pusillus</i> least Bell's vireo | Endangered | Endangered | G5T2 | S2 | |
| ABPBX03010 | <i>Setophaga petechia</i> yellow warbler | None | None | G5 | S3S4 | SSC |
| ABPBX24010 | <i>Icteria virens</i> yellow-breasted chat | None | None | G5 | S3 | SSC |



Selected Elements by Element Code
 California Department of Fish and Wildlife
 California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|--|----------------|--------------|-------------|------------|--------------------------------|
| ABPBX91091 | <i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow | None | None | G5T3 | S2S3 | WL |
| ABPBX97021 | <i>Artemisiospiza belli belli</i> Bell's sage sparrow | None | None | G5T2T4 | S2? | WL |
| ABPBX97024 | <i>Artemisiospiza belli clementeae</i> San Clemente sage sparrow | Threatened | None | G5T1Q | S1 | SSC |
| ABPBX99015 | <i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow | None | Endangered | G5T3 | S3 | |
| ABPBXA0020 | <i>Ammodramus savannarum</i> grasshopper sparrow | None | None | G5 | S2 | SSC |
| ABPBXA301C | <i>Melospiza melodia graminea</i> Channel Island song sparrow | None | None | G5T1 | S1 | SSC |
| ABPBXB0020 | <i>Agelaius tricolor</i> tricolored blackbird | None | None | G2G3 | S1S2 | SSC |
| AFCHA0209J | <i>Oncorhynchus mykiss irideus</i> southern steelhead - southern California DPS | Endangered | None | G5T1Q | S1 | SSC |
| AFCJB1303H | <i>Siphateles bicolor mohavensis</i> Mohave tui chub | Endangered | Endangered | G4T1 | S1 | FP |
| AFCJB13120 | <i>Gila orcuttii</i> arroyo chub | None | None | G2 | S2 | SSC |
| AFCJB3705K | <i>Rhinichthys osculus ssp. 3</i> Santa Ana speckled dace | None | None | G5T1 | S1 | SSC |
| AFCJC02190 | <i>Catostomus santaanae</i> Santa Ana sucker | Threatened | None | G1 | S1 | SSC |
| AFCPA03011 | <i>Gasterosteus aculeatus williamsoni</i> unarmored threespine stickleback | Endangered | Endangered | G5T1 | S1 | FP |
| AFCQN04010 | <i>Eucyclogobius newberryi</i> tidewater goby | Endangered | None | G3 | S2S3 | SSC |
| AMABA01101 | <i>Sorex ornatus willetti</i> Santa Catalina shrew | None | None | G5T1 | S1 | SSC |
| AMABA01104 | <i>Sorex ornatus salicornicus</i> southern California saltmarsh shrew | None | None | G5T1? | S1 | SSC |
| AMACB01010 | <i>Macrotus californicus</i> California leaf-nosed bat | None | None | G4 | S3 | SSC |
| AMACC01020 | <i>Myotis yumanensis</i> Yuma myotis | None | None | G5 | S4? | |
| AMACC01070 | <i>Myotis evotis</i> long-eared myotis | None | None | G5 | S4? | |
| AMACC01090 | <i>Myotis thysanodes</i> fringed myotis | None | None | G4 | S4 | |
| AMACC01110 | <i>Myotis volans</i> long-legged myotis | None | None | G5 | S4? | |



Selected Elements by Element Code
California Department of Fish and Wildlife
California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|--|----------------|----------------------|-------------|------------|--------------------------------|
| AMACC01140 | <i>Myotis ciliolabrum</i> western small-footed myotis | None | None | G5 | S2S3 | |
| AMACC02010 | <i>Lasionycteris noctivagans</i> silver-haired bat | None | None | G5 | S3S4 | |
| AMACC05030 | <i>Lasiurus cinereus</i> hoary bat | None | None | G5 | S4? | |
| AMACC05060 | <i>Lasiurus blossevillii</i> western red bat | None | None | G5 | S3? | SSC |
| AMACC05070 | <i>Lasiurus xanthinus</i> western yellow bat | None | None | G5 | S3 | SSC |
| AMACC07010 | <i>Euderma maculatum</i> spotted bat | None | None | G4 | S3 | SSC |
| AMACC08010 | <i>Corynorhinus townsendii</i> Townsend's big-eared bat | None | Candidate Threatened | G3G4 | S2S3 | SSC |
| AMACC10010 | <i>Antrozous pallidus</i> pallid bat | None | None | G5 | S3 | SSC |
| AMACD02011 | <i>Eumops perotis californicus</i> western mastiff bat | None | None | G5T4 | S4 | SSC |
| AMACD04010 | <i>Nyctinomops femorosaccus</i> pocketed free-tailed bat | None | None | G4 | S3 | SSC |
| AMACD04020 | <i>Nyctinomops macrotis</i> big free-tailed bat | None | None | G5 | S2 | SSC |
| AMAEB03051 | <i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit | None | None | G5T3T4 | S3S4 | SSC |
| AMAFB02172 | <i>Neotamias speciosus speciosus</i> lodgepole chipmunk | None | None | G4T2T3 | S2S3 | |
| AMAFB04040 | <i>Ammospermophilus nelsoni</i> Nelson's antelope squirrel | None | Threatened | G2 | S2 | |
| AMAFB05150 | <i>Xerospermophilus mohavensis</i> Mohave ground squirrel | None | Threatened | G2G3 | S2S3 | |
| AMAFD01041 | <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse | None | None | G5T1T2 | S1S2 | SSC |
| AMAFD01042 | <i>Perognathus longimembris pacificus</i> Pacific pocket mouse | Endangered | None | G5T1 | S1 | SSC |
| AMAFD01060 | <i>Perognathus inornatus</i> San Joaquin Pocket Mouse | None | None | G2G3 | S2S3 | |
| AMAFD01082 | <i>Perognathus alticolus inexpectatus</i> Tehachapi pocket mouse | None | None | G1G2T1T2 | S1S2 | SSC |
| AMAFD03143 | <i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat | Endangered | None | G5T1 | S1 | SSC |
| AMAFD05031 | <i>Chaetodipus fallax fallax</i> northwestern San Diego pocket mouse | None | None | G5T3T4 | S3S4 | SSC |



Selected Elements by Element Code
California Department of Fish and Wildlife
California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|--|----------------|--------------|-------------|------------|--------------------------------|
| AMAFD05032 | <i>Chaetodipus fallax pallidus</i> pallid San Diego pocket mouse | None | None | G5T34 | S3S4 | SSC |
| AMAFF06022 | <i>Onychomys torridus ramona</i> southern grasshopper mouse | None | None | G5T3 | S3 | SSC |
| AMAFF08041 | <i>Neotoma lepida intermedia</i> San Diego desert woodrat | None | None | G5T3T4 | S3S4 | SSC |
| AMAFF11035 | <i>Microtus californicus stephensi</i> south coast marsh vole | None | None | G5T1T2 | S1S2 | SSC |
| AMAJA04022 | <i>Urocyon littoralis catalinae</i> Santa Catalina Island fox | Endangered | Threatened | G1T1 | S1 | |
| AMAJA04023 | <i>Urocyon littoralis clementae</i> San Clemente Island fox | None | Threatened | G1T1 | S1 | |
| AMAJF04010 | <i>Taxidea taxus</i> American badger | None | None | G5 | S3 | SSC |
| AMALE04013 | <i>Ovis canadensis nelsoni</i> desert bighorn sheep | None | None | G4T4 | S3 | FP |
| ARAAA02010 | <i>Chelonia mydas</i> green turtle | Threatened | None | G3 | S1 | |
| ARAAD02030 | <i>Emys marmorata</i> western pond turtle | None | None | G3G4 | S3 | SSC |
| ARAAF01012 | <i>Gopherus agassizii</i> desert tortoise | Threatened | Threatened | G3 | S2 | |
| ARACC01012 | <i>Anniella pulchra pulchra</i> silvery legless lizard | None | None | G3G4T3T4Q | S3 | SSC |
| ARACF12100 | <i>Phrynosoma blainvillii</i> coast horned lizard | None | None | G3G4 | S3S4 | SSC |
| ARACJ02143 | <i>Aspidoscelis tigris stejnegeri</i> coastal whiptail | None | None | G5T3T4 | S2S3 | |
| ARACK01020 | <i>Xantusia riversiana</i> island night lizard | Delisted | None | G3 | G3 | |
| ARADA01020 | <i>Charina trivirgata</i> rosy boa | None | None | G4G5 | S3S4 | |
| ARADB10015 | <i>Diadophis punctatus modestus</i> San Bernardino ringneck snake | None | None | G5T2T3Q | S2? | |
| ARADB19062 | <i>Lampropeltis zonata (parvirubra)</i> California mountain kingsnake (San Bernardino population) | None | None | G4G5 | S2? | SSC |
| ARADB19063 | <i>Lampropeltis zonata (pulchra)</i> California mountain kingsnake (San Diego population) | None | None | G4G5 | S1S2 | SSC |
| ARADB36160 | <i>Thamnophis hammondi</i> two-striped garter snake | None | None | G4 | S3S4 | SSC |
| ICBRA07010 | <i>Streptocephalus woottoni</i> Riverside fairy shrimp | Endangered | None | G1G2 | S1S2 | |



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|--------------|--|----------------|--------------|-------------|------------|--------------------------------|
| IICOL02080 | <i>Cicindela gabbii</i> western tidal-flat tiger beetle | None | None | G2G4 | S1 | |
| IICOL02101 | <i>Cicindela hirticollis gravida</i> sandy beach tiger beetle | None | None | G5T2 | S1 | |
| IICOL02113 | <i>Cicindela latesignata latesignata</i> western beach tiger beetle | None | None | G2G4T1T2 | S1 | |
| IICOL02121 | <i>Cicindela senilis frosti</i> senile tiger beetle | None | None | G2G3T1T3 | S1 | |
| IICOL4A010 | <i>Coelus globosus</i> globose dune beetle | None | None | G1G2 | S1S2 | |
| IICOL4W010 | <i>Onychobaris langei</i> Lange's El Segundo Dune weevil | None | None | G1 | S1 | |
| IICOL51021 | <i>Trigonoscuta dorothea dorothea</i> Dorothy's El Segundo Dune weevil | None | None | G1T1 | S1 | |
| IIDIP05022 | <i>Rhaphiomidas terminatus terminatus</i> El Segundo flower-loving fly | None | None | G1T1 | S1 | |
| IIDIP17010 | <i>Brennania belkini</i> Belkin's dune tabanid fly | None | None | G1G2 | S1S2 | |
| IHYM71040 | <i>Ceratochrysis longimala</i> Desert cuckoo wasp | None | None | G1 | S1 | |
| IILEM0R390 | <i>Eucosma hennei</i> Henne's eucosman moth | None | None | G1 | S1 | |
| IILEM2X090 | <i>Carolella busckana</i> Busck's gallmoth | None | None | G1G3 | SH | |
| IILEP84030 | <i>Panoquina errans</i> wandering (=saltmarsh) skipper | None | None | G4G5 | S2 | |
| IILEPE2206 | <i>Callophrys mossii hidakupa</i> San Gabriel Mountains elfin butterfly | None | None | G4T1T2 | S1S2 | |
| IILEPG201B | <i>Euphilotes battoides allyni</i> El Segundo blue butterfly | Endangered | None | G5T1 | S1 | |
| IILEPG402A | <i>Glaucopsyche lygdamus palosverdesensis</i> Palos Verdes blue butterfly | Endangered | None | G5T1 | S1 | |
| IILEPG6011 | <i>Plebejus saepiolus aureolus</i> San Gabriel Mountains blue butterfly | None | None | G5T1 | S1 | |
| IILEPG7010 | <i>Plebulina emigdionis</i> San Emigdio blue butterfly | None | None | G1G2 | S1S2 | |
| IILEPP2010 | <i>Danaus plexippus</i> monarch butterfly | None | None | G5 | S3 | |
| IORT32020 | <i>Aglaothorax longipennis</i> Santa Monica shieldback katydid | None | None | G1G2 | S1S2 | |
| IORT36300 | <i>Trimerotropis occidentiloides</i> Santa Monica grasshopper | None | None | G1G2 | S1S2 | |



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| IITRI23010 | <i>Diplectrona californica</i> California diplectronan caddisfly | None | None | G1G2 | S1S2 | |
| ILARAU7010 | <i>Socalchemmis gertschi</i> Gertsch's socalchemmis spider | None | None | G1 | S1 | |
| IMGAS19020 | <i>Sterkia clementina</i> San Clemente Island blunt-top snail | None | None | G1 | S1 | |
| IMGAS36030 | <i>Haplotrema catalinense</i> Santa Catalina lancetooth | None | None | G1 | S1 | |
| IMGAS80110 | <i>Pristiloma shepardae</i> Shepard's snail | None | None | G1 | S1 | |
| IMGASB6010 | <i>Radiocentrum avalonense</i> Catalina mountainsnail | None | None | G1 | S1 | |
| IMGASC5030 | <i>Micrarionta gabbi</i> San Clemente islandsnail | None | None | G1 | S1 | |
| IMGASD1010 | <i>Xerarionta intercosa</i> horseshoe snail | None | None | G1 | S1 | |
| IMGASD1030 | <i>Xerarionta redimita</i> wreathed cactusnail | None | None | G1G2 | S1 | |
| IMGASJ7040 | <i>Tryonia imitator</i> mimic tryonia (=California brackishwater snail) | None | None | G2 | S2 | |
| NBMUS7L090 | <i>Tortula californica</i> California screw moss | None | None | G2? | S2 | 1B.2 |
| NBMUS80010 | <i>Anomobryum julaceum</i> slender silver moss | None | None | G4G5 | S2 | 4.2 |
| NLTES29470 | <i>Graphis saxorum</i> Baja rock lichen | None | None | G1G3 | S1S3 | 3 |
| NLTEST7980 | <i>Texosporium sancti-jacobi</i> woven-spored lichen | None | None | G3 | S1 | 3 |
| PDAPI0U090 | <i>Cymopterus deserticola</i> desert cymopterus | None | None | G2 | S2 | 1B.2 |
| PDAPI1B0W0 | <i>Lomatium insulare</i> San Nicolas Island lomatium | None | None | G2G3 | S2S3 | 1B.2 |
| PDAPI1G030 | <i>Oreonana vestita</i> woolly mountain-parsley | None | None | G3 | S3 | 1B.3 |
| PDAST0W0W0 | <i>Baccharis malibuensis</i> Malibu baccharis | None | None | G1 | S1 | 1B.1 |
| PDAST20095 | <i>Chaenactis glabriuscula var. orcuttiana</i> Orcutt's pincushion | None | None | G5T1 | S1 | 1B.1 |
| PDAST3N070 | <i>Eriophyllum mohavense</i> Barstow woolly sunflower | None | None | G2 | S2 | 1B.2 |
| PDAST3N090 | <i>Constancea nevinii</i> Nevin's woolly sunflower | None | None | G3 | S3 | 1B.3 |



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| PDAST440C0 | <i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco | None | None | G4 | S2 | 2B.2 |
| PDAST4H020 | <i>Hazardia cana</i> San Clemente Island hazardia | None | None | G2 | S2 | 1B.2 |
| PDAST4N102 | <i>Helianthus nuttallii</i> ssp. <i>parishii</i> Los Angeles sunflower | None | None | G5TH | SH | 1A |
| PDAST4N250 | <i>Helianthus inexpectatus</i> Newhall sunflower | None | None | G1 | S1 | 1B.1 |
| PDAST4R0J0 | <i>Deinandra minthornii</i> Santa Susana tarplant | None | Rare | G2 | S2 | 1B.2 |
| PDAST4R0P4 | <i>Centromadia parryi</i> ssp. <i>australis</i> southern tarplant | None | None | G3T2 | S2 | 1B.1 |
| PDAST57091 | <i>Isocoma menziesii</i> var. <i>decumbens</i> decumbent goldenbush | None | None | G3G5T2T3 | S2 | 1B.2 |
| PDAST5L0A1 | <i>Lasthenia glabrata</i> ssp. <i>coulteri</i> Coulter's goldfields | None | None | G4T2 | S2 | 1B.1 |
| PDAST5N070 | <i>Layia heterotricha</i> pale-yellow layia | None | None | G2 | S2 | 1B.1 |
| PDAST6X060 | <i>Pentachaeta lyonii</i> Lyon's pentachaeta | Endangered | Endangered | G2 | S2 | 1B.1 |
| PDAST8H060 | <i>Senecio aphanactis</i> chaparral ragwort | None | None | G3? | S2 | 2B.2 |
| PDAST8U0K0 | <i>Munzothamnus blairii</i> Blair's munzothamnus | None | None | G3 | S3 | 1B.2 |
| PDAST8Y080 | <i>Stylocline masonii</i> Mason's neststraw | None | None | G1 | S1 | 1B.1 |
| PDASTE80C0 | <i>Symphotrichum defoliatum</i> San Bernardino aster | None | None | G2 | S2 | 1B.2 |
| PDASTE80U0 | <i>Symphotrichum greatae</i> Greata's aster | None | None | G3 | S3 | 1B.3 |
| PDBER060A0 | <i>Berberis nevinii</i> Nevin's barberry | Endangered | Endangered | G1 | S1 | 1B.1 |
| PDBOR0A370 | <i>Cryptantha traskiae</i> Trask's cryptantha | None | None | G2 | S2 | 1B.1 |
| PDBOR0A3M0 | <i>Cryptantha clokeyi</i> Clokey's cryptantha | None | None | G2 | S2 | 1B.2 |
| PDBOR0A400 | <i>Cryptantha wigginsii</i> Wiggins' cryptantha | None | None | G2 | S1 | 1B.2 |
| PDBOR0H010 | <i>Harpagonella palmeri</i> Palmer's grapplinghook | None | None | G4 | S3 | 4.2 |
| PDBOR0V0U0 | <i>Plagiobothrys parishii</i> Parish's popcornflower | None | None | G1 | S1 | 1B.1 |



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|---------------------|---|-----------------------|---------------------|--------------------|-------------------|---------------------------------------|
| PDBRA061M3 | <i>Boechea lincolnensis</i> Lincoln rockcress | None | None | G4? | S2 | 2B.3 |
| PDBRA10020 | <i>Dithyrea maritima</i> beach spectaclepod | None | Threatened | G2 | S1 | 1B.1 |
| PDBRA1M114 | <i>Lepidium virginicum var. robinsonii</i> Robinson's pepper-grass | None | None | G5T3 | S3 | 4.3 |
| PDBRA270V0 | <i>Nasturtium gambelii</i> Gambel's water cress | Endangered | Threatened | G1 | S1 | 1B.1 |
| PDBRA2A020 | <i>Sibara filifolia</i> Santa Cruz Island winged-rockcress | Endangered | None | G1 | S1 | 1B.1 |
| PDBRA2Q070 | <i>Thysanocarpus rigidus</i> rigid fringedpod | None | None | G1G2 | S1S2 | 1B.2 |
| PDCAC0D053 | <i>Opuntia basilaris var. brachyclada</i> short-joint beavertail | None | None | G5T3 | S3 | 1B.2 |
| PDCAC11010 | <i>Bergerocactus emoryi</i> golden-spined cereus | None | None | G2 | S2 | 2B.2 |
| PDCAM0F0B2 | <i>Nemacladus secundiflorus var. robbinsii</i> Robbins' nemacladus | None | None | G3T2T3 | S2S3 | 1B.2 |
| PDCAR040L0 | <i>Arenaria paludicola</i> marsh sandwort | Endangered | Endangered | G1 | S1 | 1B.1 |
| PDCAR0E011 | <i>Loeflingia squarrosa var. artemisiarum</i> sagebrush loeflingia | None | None | G5T2T3 | S2 | 2B.2 |
| PDCHE02010 | <i>Aphanisma blitoides</i> aphanisma | None | None | G3G4 | S3 | 1B.2 |
| PDCHE040E0 | <i>Atriplex coulteri</i> Coulter's saltbush | None | None | G2 | S2 | 1B.2 |
| PDCHE041C0 | <i>Atriplex pacifica</i> south coast saltscale | None | None | G3G4 | S2 | 1B.2 |
| PDCHE041D0 | <i>Atriplex parishii</i> Parish's brittle-scale | None | None | G1G2 | S1 | 1B.1 |
| PDCHE041T1 | <i>Atriplex serenana var. davidsonii</i> Davidson's saltscale | None | None | G5T1 | S1 | 1B.2 |
| PDCHE091Z0 | <i>Chenopodium littoreum</i> coastal goosefoot | None | None | G2 | S2 | 1B.2 |
| PDCHE0P0D0 | <i>Suaeda esteroa</i> estuary seablite | None | None | G3 | S2 | 1B.2 |
| PDCIS02090 | <i>Crocantemum greenei</i> island rush-rose | Threatened | None | G2 | S2 | 1B.2 |
| PDCON040A0 | <i>Calystegia peirsonii</i> Peirson's morning-glory | None | None | G4 | S4 | 4.2 |
| PDCON040P0 | <i>Calystegia felix</i> lucky morning-glory | None | None | GHQ | SH | 3.1 |



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|--------------|--|----------------|--------------|-------------|------------|--------------------------------|
| PDCPR030R3 | <i>Lonicera subspicata</i> var. <i>subspicata</i> Santa Barbara honeysuckle | None | None | G5T2 | S2 | 1B.2 |
| PDCRA04051 | <i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i> Blochman's dudleya | None | None | G2T2 | S2 | 1B.1 |
| PDCRA040A3 | <i>Dudleya cymosa</i> ssp. <i>marcescens</i> marcescent dudleya | Threatened | Rare | G5T2 | S2 | 1B.2 |
| PDCRA040A5 | <i>Dudleya cymosa</i> ssp. <i>ovatifolia</i> Santa Monica dudleya | Threatened | None | G5T1 | S1 | 1B.1 |
| PDCRA040A7 | <i>Dudleya cymosa</i> ssp. <i>agourensis</i> Agoura Hills dudleya | Threatened | None | G5T1 | S2 | 1B.2 |
| PDCRA040A8 | <i>Dudleya cymosa</i> ssp. <i>crebrifolia</i> San Gabriel River dudleya | None | None | G5T1 | S1 | 1B.2 |
| PDCRA040B0 | <i>Dudleya densiflora</i> San Gabriel Mountains dudleya | None | None | G2 | S2 | 1B.1 |
| PDCRA040H0 | <i>Dudleya multicaulis</i> many-stemmed dudleya | None | None | G2 | S2 | 1B.2 |
| PDCRA040S1 | <i>Dudleya virens</i> ssp. <i>hassei</i> Catalina Island dudleya | None | None | G3?T2? | S2? | 1B.2 |
| PDCRA040S2 | <i>Dudleya virens</i> ssp. <i>insularis</i> island green dudleya | None | None | G3?T3 | S3 | 1B.2 |
| PDCRA040S3 | <i>Dudleya virens</i> ssp. <i>virens</i> bright green dudleya | None | None | G3?T1 | S1 | 1B.2 |
| PDCRO02020 | <i>Crossosoma californicum</i> Catalina crossosoma | None | None | G2 | S2 | 1B.2 |
| PDCUS01111 | <i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> Peruvian dodder | None | None | G5T4T5 | SH | 2B.2 |
| PDERI04070 | <i>Arctostaphylos catalinae</i> Santa Catalina Island manzanita | None | None | G2? | S2? | 1B.2 |
| PDERI042P0 | <i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i> San Gabriel manzanita | None | None | G5T2 | S2 | 1B.2 |
| PDEUP0Q1B0 | <i>Euphorbia misera</i> cliff spurge | None | None | G5 | S2 | 2B.2 |
| PDFAB0F1G0 | <i>Astragalus brauntonii</i> Braunton's milk-vetch | Endangered | None | G2 | S2 | 1B.1 |
| PDFAB0F4T0 | <i>Astragalus leucolobus</i> Big Bear Valley woollypod | None | None | G2 | S2 | 1B.2 |
| PDFAB0F5X0 | <i>Astragalus nevinii</i> San Clemente Island milk-vetch | None | None | G3 | S3 | 1B.2 |
| PDFAB0F721 | <i>Astragalus preussii</i> var. <i>laxiflorus</i> Lancaster milk-vetch | None | None | G4T2 | S1 | 1B.1 |
| PDFAB0F7B1 | <i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i> Ventura Marsh milk-vetch | Endangered | Endangered | G2T1 | S1 | 1B.1 |



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|--------------|--|----------------|--------------|-------------|------------|--------------------------------|
| PDFAB0F8R2 | <i>Astragalus tener</i> var. <i>titi</i> coastal dunes milk-vetch | Endangered | Endangered | G2T1 | S1 | 1B.1 |
| PDFAB0FB92 | <i>Astragalus lentiginosus</i> var. <i>antonius</i> San Antonio milk-vetch | None | None | G5T2 | S2 | 1B.3 |
| PDFAB2A041 | <i>Acmispon argophyllus</i> var. <i>adsurgens</i> San Clemente Island bird's-foot trefoil | None | Endangered | G5T1 | S1 | 1B.1 |
| PDFAB2A1G2 | <i>Acmispon dendroideus</i> var. <i>traskiae</i> San Clemente Island lotus | Threatened | Endangered | G4T2 | S2 | 1B.1 |
| PDFAB2B1T0 | <i>Lupinus guadalupensis</i> Guadalupe Island lupine | None | None | G3 | S3 | 1B.2 |
| PDFAB2B330 | <i>Lupinus peirsonii</i> Peirson's lupine | None | None | G2 | S2 | 1B.3 |
| PDFAB2X0H3 | <i>Oxytropis oreophila</i> var. <i>oreophila</i> rock-loving oxytrope | None | None | G5T4 | S2 | 2B.3 |
| PDFAG050D0 | <i>Quercus dumosa</i> Nuttall's scrub oak | None | None | G3 | S3 | 1B.1 |
| PDGER01070 | <i>California macrophylla</i> round-leaved filaree | None | None | G2 | S2 | 1B.1 |
| PDGRO020F3 | <i>Ribes divaricatum</i> var. <i>parishii</i> Parish's gooseberry | None | None | G4TH | SH | 1A |
| PDGRO021P0 | <i>Ribes viburnifolium</i> Santa Catalina Island currant | None | None | G2? | S2? | 1B.2 |
| PDHYD0A0H0 | <i>Nama stenocarpum</i> mud nama | None | None | G4G5 | S1S2 | 2B.2 |
| PDHYD0C1G0 | <i>Phacelia floribunda</i> many-flowered phacelia | None | None | G2 | S2 | 1B.2 |
| PDHYD0C510 | <i>Phacelia stellaris</i> Brand's star phacelia | None | None | G1 | S1 | 1B.1 |
| PDLAM0V060 | <i>Lepechinia rossii</i> Ross' pitcher sage | None | None | G1 | S1 | 1B.2 |
| PDLAM180A3 | <i>Monardella hypoleuca</i> ssp. <i>hypoleuca</i> white-veined monardella | None | None | G4T2T3 | S2S3 | 1B.3 |
| PDLAM180D2 | <i>Monardella linooides</i> ssp. <i>oblonga</i> Tehachapi monardella | None | None | G5T2 | S2 | 1B.3 |
| PDLAM180E1 | <i>Monardella macrantha</i> ssp. <i>hallii</i> Hall's monardella | None | None | G5T3 | S3 | 1B.3 |
| PDLAM1U0A1 | <i>Scutellaria bolanderi</i> ssp. <i>austromontana</i> southern mountains skullcap | None | None | G4T2 | S2 | 1B.2 |
| PDMAL0N022 | <i>Lavatera assurgentiflora</i> ssp. <i>glabra</i> southern island mallow | None | None | G1T1 | S1 | 1B.1 |
| PDMAL0Q030 | <i>Malacothamnus clementinus</i> San Clemente Island bush-mallow | Endangered | Endangered | G2 | S2 | 1B.1 |



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| PDMAL0Q040 | <i>Malacothamnus davidsonii</i> Davidson's bush-mallow | None | None | G2 | S2 | 1B.2 |
| PDMAL110J0 | <i>Sidalcea neomexicana</i> Salt Spring checkerbloom | None | None | G4? | S2S3 | 2B.2 |
| PDONA030M1 | <i>Camissoniopsis guadalupensis ssp. clementina</i> San Clemente Island evening-primrose | None | None | G3T3 | S3 | 1B.2 |
| PDONA05181 | <i>Clarkia xantiana ssp. parviflora</i> Kern Canyon clarkia | None | None | G4T3 | S3 | 4.2 |
| PDORO040A2 | <i>Orobanche parishii ssp. brachyloba</i> short-lobed broomrape | None | None | G4?T4 | S3 | 4.2 |
| PDORO040G2 | <i>Orobanche valida ssp. valida</i> Rock Creek broomrape | None | None | G3T2 | S2 | 1B.2 |
| PDPAP05020 | <i>Canbya candida</i> white pygmy-poppy | None | None | G3G4 | S3S4 | 4.2 |
| PDPAP08012 | <i>Dendromecon harfordii var. rhamnoides</i> south island bush-poppy | None | None | G4T1Q | S1 | 3.1 |
| PDPGN040J1 | <i>Chorizanthe parryi var. fernandina</i> San Fernando Valley spineflower | Candidate | Endangered | G2T1 | S1 | 1B.1 |
| PDPGN040J2 | <i>Chorizanthe parryi var. parryi</i> Parry's spineflower | None | None | G3T3 | S3 | 1B.1 |
| PDPGN082A2 | <i>Eriogonum giganteum var. formosum</i> San Clemente Island buckwheat | None | None | G3T3 | S3 | 1B.2 |
| PDPGN083B1 | <i>Eriogonum kennedyi var. alpigenum</i> southern alpine buckwheat | None | None | G4T3 | S3 | 1B.3 |
| PDPGN083W5 | <i>Eriogonum microthecum var. johnstonii</i> Johnston's buckwheat | None | None | G5T2 | S2 | 1B.3 |
| PDPGN0G011 | <i>Nemacaulis denudata var. denudata</i> coast woolly-heads | None | None | G3G4T2 | S2 | 1B.2 |
| PDPGN0V010 | <i>Dodecahema leptoceras</i> slender-horned spineflower | Endangered | Endangered | G1 | S1 | 1B.1 |
| PDPLM030G0 | <i>Eriastrum rosamondense</i> Rosamond eriastrum | None | None | G1 | S1 | 1B.1 |
| PDPLM090D0 | <i>Linanthus concinnus</i> San Gabriel linanthus | None | None | G3 | S3 | 1B.2 |
| PDPLM09102 | <i>Leptosiphon pygmaeus ssp. pygmaeus</i> pygmy leptosiphon | None | None | G4T1 | S1 | 1B.2 |
| PDPLM0C080 | <i>Navarretia fossalis</i> spreading navarretia | Threatened | None | G1 | S1 | 1B.1 |
| PDPLM0C0L0 | <i>Navarretia peninsularis</i> Baja navarretia | None | None | G3? | S2 | 1B.2 |
| PDPLM0C0Q0 | <i>Navarretia prostrata</i> prostrate vernal pool navarretia | None | None | G2 | S2 | 1B.1 |



Selected Elements by Element Code
 California Department of Fish and Wildlife
 California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|--|----------------|--------------|-------------|------------|--------------------------------|
| PDPLM0C0S0 | <i>Navarretia setiloba</i> Piute Mountains navarretia | None | None | G2 | S2 | 1B.1 |
| PDPOR04010 | <i>Lewisia brachycalyx</i> short-sepaled lewisia | None | None | G4G5 | S2 | 2B.2 |
| PDRAN0B1X2 | <i>Delphinium variegatum ssp. thornei</i> Thorne's royal larkspur | None | None | G4T2 | S2 | 1B.1 |
| PDRAN0B1X3 | <i>Delphinium variegatum ssp. kinkiense</i> San Clemente Island larkspur | Endangered | Endangered | G4T2 | S2 | 1B.1 |
| PDROS08030 | <i>Cercocarpus traskiae</i> Catalina Island mountain-mahogany | Endangered | Endangered | G1 | S1 | 1B.1 |
| PDROS0W045 | <i>Horkelia cuneata var. puberula</i> mesa horkelia | None | None | G4T1 | S1 | 1B.1 |
| PDROS12011 | <i>Lyonothamnus floribundus ssp. aspleniifolius</i> Santa Cruz Island ironwood | None | None | G3T3 | S3 | 1B.2 |
| PDROS12012 | <i>Lyonothamnus floribundus ssp. floribundus</i> Santa Catalina Island ironwood | None | None | G3T2 | S2 | 1B.2 |
| PDROS1B0S3 | <i>Drymocallis cuneifolia var. ewanii</i> Ewan's cinquefoil | None | None | G1T1 | S1 | 1B.3 |
| PDROS1B120 | <i>Potentilla multijuga</i> Ballona cinquefoil | None | None | GX | SX | 1A |
| PDRUB0N0F1 | <i>Galium catalinense ssp. acrispum</i> San Clemente Island bedstraw | None | Endangered | G4T2 | S2 | 1B.2 |
| PDRUB0N0F2 | <i>Galium catalinense ssp. catalinense</i> Santa Catalina Island bedstraw | None | None | G4T2T3 | S2S3 | 1B.2 |
| PDRUB0N0V0 | <i>Galium grande</i> San Gabriel bedstraw | None | None | G2 | S2 | 1B.2 |
| PDSAX0M070 | <i>Lithophragma maximum</i> San Clemente Island woodland star | Endangered | Endangered | G1 | S1 | 1B.1 |
| PDSAX0P030 | <i>Parnassia cirrata var. cirrata</i> San Bernardino grass-of-Parnassus | None | None | G5T2 | S2 | 1B.3 |
| PDSCR0D140 | <i>Castilleja gleasoni</i> Mt. Gleason paintbrush | None | Rare | G2 | S2 | 1B.2 |
| PDSCR0D160 | <i>Castilleja grisea</i> San Clemente Island paintbrush | Threatened | Endangered | G3 | S3 | 1B.3 |
| PDSCR0J0C2 | <i>Chloropyron maritimum ssp. maritimum</i> salt marsh bird's-beak | Endangered | Endangered | G4?T1 | S1 | 1B.2 |
| PDSCR1B2P0 | <i>Mimulus traskiae</i> Santa Catalina Island monkeyflower | None | None | GX | SX | 1A |
| PDSCR1S0D0 | <i>Scrophularia villosa</i> Santa Catalina figwort | None | None | G3 | S3 | 1B.2 |
| PDSCR2H010 | <i>Gambelia speciosa</i> showy island snapdragon | None | None | G3 | S3 | 1B.2 |



Selected Elements by Element Code
California Department of Fish and Wildlife
California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|---|----------------|--------------|-------------|------------|--------------------------------|
| PDSOL0G0N0 | <i>Lycium brevipes</i> var. <i>hassei</i> Santa Catalina Island desert-thorn | None | None | G1Q | S1 | 1B.1 |
| PDSOL0Z280 | <i>Solanum wallacei</i> Wallace's nightshade | None | None | G2Q | S2 | 1B.1 |
| PDVIO04431 | <i>Viola pinetorum</i> var. <i>grisea</i> grey-leaved violet | None | None | G4G5T3? | S3? | 1B.3 |
| PMAGA080E0 | <i>Nolina cismontana</i> chaparral nolina | None | None | G2 | S2 | 1B.2 |
| PMCYP039M0 | <i>Carex occidentalis</i> western sedge | None | None | G4 | S2S3 | 2B.3 |
| PMCYP04010 | <i>Cladium californicum</i> California saw-grass | None | None | G4 | S2 | 2B.2 |
| PMCYP0B0N0 | <i>Fimbristylis thermalis</i> hot springs fimbristylis | None | None | G4 | S2 | 2B.2 |
| PMLIL0C050 | <i>Brodiaea filifolia</i> thread-leaved brodiaea | Threatened | Endangered | G1 | S1 | 1B.1 |
| PMLIL0C080 | <i>Brodiaea kinkiensis</i> San Clemente Island brodiaea | None | None | G2 | S2 | 1B.2 |
| PMLIL0D096 | <i>Calochortus clavatus</i> var. <i>gracilis</i> slender mariposa-lily | None | None | G4T2T3 | S2S3 | 1B.2 |
| PMLIL0D122 | <i>Calochortus palmeri</i> var. <i>palmeri</i> Palmer's mariposa-lily | None | None | G3T3? | S3? | 1B.2 |
| PMLIL0D150 | <i>Calochortus plummerae</i> Plummer's mariposa-lily | None | None | G4 | S4 | 4.2 |
| PMLIL0D190 | <i>Calochortus striatus</i> alkali mariposa-lily | None | None | G2 | S2 | 1B.2 |
| PMLIL0D1J1 | <i>Calochortus weedii</i> var. <i>intermedius</i> intermediate mariposa-lily | None | None | G3G4T2 | S2 | 1B.2 |
| PMLIL0D1J2 | <i>Calochortus fimbriatus</i> late-flowered mariposa-lily | None | None | G3 | S3 | 1B.2 |
| PMLIL1A0J0 | <i>Lilium parryi</i> lemon lily | None | None | G3 | S3 | 1B.2 |
| PMLIL21020 | <i>Triteleia clementina</i> San Clemente Island triteleia | None | None | G2 | S2 | 1B.2 |
| PMPOA29010 | <i>Dissanthelium californicum</i> California dissanthelium | None | None | G1 | S1 | 1B.2 |
| PMPOA3D020 | <i>Imperata brevifolia</i> California satintail | None | None | G3 | S3 | 2B.1 |
| PMPOA48020 | <i>Muhlenbergia appressa</i> appressed muhly | None | None | G4 | S3 | 2B.2 |
| PMPOA480A0 | <i>Muhlenbergia californica</i> California muhly | None | None | G3 | S3.3 | 4.3 |



Selected Elements by Element Code
California Department of Fish and Wildlife
California Natural Diversity Database



| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|--------------|---|----------------|--------------|-------------|------------|--------------------------------|
| PMPOA4G010 | <i>Orcuttia californica</i> California Orcutt grass | Endangered | Endangered | G1 | S1 | 1B.1 |
| PPOPH010L0 | <i>Botrychium crenulatum</i> scalloped moonwort | None | None | G3 | S2 | 2B.2 |
| PPTHE05192 | <i>Thelypteris puberula</i> var. <i>sonorensis</i> Sonoran maiden fern | None | None | G5T3 | S2 | 2B.2 |

Record Count: 295

Appendix F

Supplemental Hydrology and Water Quality Data



APPENDIX F

Supplemental Hydrology and Water Quality Data

This appendix provides supplemental information describing the Enhanced Watershed Management Program (EWMP) Management Areas, the designated Beneficial Uses of the major water bodies within each EWMP Area, and applicable Total Maximum Daily Loads (TMDLs) for each EWMP Area and Permittee.

Land Use

Table F-1 describes land use in each of the EWMP Management Areas, based on the 2005 Southern California Area Governments Land Use Database. As previously described in Section 3.8, “Hydrology and Water Quality,” each EWMP group falls into one of six categories:

- **Southern Coastal EWMP Areas** (Beach Cities, Santa Monica Bay Jurisdictions 2 + 3, Marina Del Rey, Ballona Creek), dominated by urbanized beach communities with high-density residential and commercial land uses.
- **Northern Coastal EWMP Areas** (Malibu Creek and Northern Santa Monica Bay), characterized by lower-density development along the coast and greater open space areas inland.
- **Upper San Gabriel and Rio Hondo/San Gabriel EWMP Areas**, characterized by higher-density development in the lower watershed areas and lower-density development and open space in the upper watersheds where the foothills to the San Gabriel Mountains begin.
- **Upper Los Angeles River EWMP Area**, which is primarily urbanized with high-density residential and commercial uses but with characteristics of the Upper San Gabriel in the farthest upper reaches near the foothills.
- **Dominguez Channel and Palos Verdes Peninsula EWMP Areas**, with high-density beach and inland communities and a relatively larger area of industrial land use.
- **Upper Santa Clara River EWMP Area**, which is predominantly open space.

**TABLE F-1
LAND USE DISTRIBUTIONS WITHIN EWMP AREAS**

| EWMP Area/ Subarea | Land Use Distribution (%) ¹ | | | | | | | Vacant/ Open Space/ Recreation |
|------------------------------------|--|---------------------------------|----------------|------------|------------|----------------|--------------|---|
| | Multi-Family Residential | Single Family Residential | Other Urban | Commercial | Industrial | Transportation | Agricultural | |
| Ballona Creek | 13.7% | 45.5% | 6.0% | 10.6% | 4.0% | 2.7% | 0.0% | 15.9% |
| Beach Cities | 8.2% | 51.4% | 6.6% | 13.7% | 10.6% | 3.5% | 0.8% | 2.4% |
| Dominguez Channel | 14.2% | 27.7% | 15.9% | 18.4% | 15.7% | 0.0% | 0.3% | 7.8% |
| Malibu | 4.6% | 8.7% | 1.4% | 1.6% | 0.3% | 1.7% | 1.3% | 79.6% |
| Marina del Rey | 27.4% | 16.9% | 6.2% | 19.1% | 2.0% | 21.1% | 0.0% | 7.5% |
| North SMB | 0.3% | 5.0% | 0.3% | 0.4% | 0.1% | 0.0% | 0.8% | 93.1% |
| Palos Verdes Peninsula | 2.8% | 55.8% | 4.2% | 1.6% | 0.7% | 1.2% | 0.5% | 30.2% |
| Rio Hondo/ San Gabriel River | 7.0% | 47.0% | 3.0% | 8.0% | 7.0% | 1.0% | 3.0% | 24.0% |
| SMB Juris 2+3 | 6.4% | 27.3% | 2.5% | 3.9% | 4.0% | 7.7% | 0.0% | 47.1% |
| Upper LA River | 5.3% | 47.3% | 5.0% | 6.3% | 5.5% | 6.4% | 0.8% | 21.4% |
| Upper San Gabriel River | 2.7% | 42.9% | 6.5% | 4.6% | 7.9% | 5.6% | 1.2% | 25.1% |
| Upper Santa Clara River | 5.1% | 7.9% | 1.6% | 1.1% | 2.5% | 3.5% | 2.1% | 74.1% |

1. Percentages do not total 100% due to small areas (<4%) of no data.

Surface Water Hydrology of EWMP Management Areas

The following sections describe major surface water hydrologic features in each EWMP Management Area.

Ballona Creek

The Ballona Creek watershed covers more than 81,000 acres, over 78,000 of which fall in the EWMP Area within the jurisdiction of Municipal Separate Storm Sewer System (MS4) Permittees. The Los Angeles County Flood Control District (LACFCD) owns and operates drainage infrastructure within incorporated and unincorporated areas in the watershed. Land use within the EWMP Area is primarily urbanized (82.5%), with most urbanized areas (59.2%) in multi- or single-family housing.

Ballona Creek and Estuary are collectively approximately 9.5 miles long and divided into three hydrologic units: Reach 1, which extends for 2 miles from Cochran Avenue to National

Boulevard (channelized); Reach 2, which extends for about 4 miles from National Boulevard to Centinela Avenue, where Ballona Estuary starts (channelized); and Ballona Estuary, which starts at Centinela Creek and extends for 3.5 miles to the Pacific Ocean (soft-bottom channel, tidally influenced). Major tributaries to Ballona Creek include Sepulveda Canyon Channel (Reach 2) and Centinela Creek (Ballona Estuary). Other water bodies in the watershed include the Del Rey Lagoon and the Ballona Wetlands, which are both connected to the Ballona Estuary through tide gates. The Ballona Wetlands, which are the site of a major multiagency restoration project, encompass approximately 626 acres (541 acres of wetlands and 85 acres of roads, parking lots, levees, and other structures). Approximately 460 acres of the Ballona Wetlands are located within the Ballona Creek watershed; the remaining portion is located in the Marina Del Rey watershed. The Ballona Wetlands are owned and/or managed by the California Department of Fish and Wildlife (CDFW) and the State Land Commission and, as such, are not subject to MS4 Permit or EWMP requirements.

Beach Cities

The Beach Cities EWMP Area covers over 20,000 acres divided into three watersheds: Santa Monica Bay (38.4% of the EWMP Area), Dominguez Channel (36.1%), and Machado Lake watershed (35.5%). This watershed is the most relatively urbanized of the EWMP areas as 93.9% of the watershed is urbanized. Significantly, almost a quarter of the EWMP Area is commercial and industrial lands.

The Dominguez Channel watershed within the Beach Cities EWMP includes drainage from the Torrance Carson Channel (Torrance Lateral). The Machado Lake watershed includes drainage from the Wilmington Drain, an LAFCD facility. Additional information about the Dominguez Channel and Machado Lake watersheds is provided below in the Dominguez Channel EWMP description. Beaches within the Beach Cities EWMP Area do not have any storm drain infrastructure that collects and discharges beach runoff directly to Santa Monica Bay and are therefore considered non-point sources, which are not subject to the MS4 Permit or EWMP requirements. Similarly, the Hermosa Beach and Manhattan Beach piers are not part of the MS4; they are non-point sources excluded from the MS4 Permit scope and therefore the EWMP.

Dominguez Channel

Dominguez Channel is a 15.7-mile-long waterway that drains 133 square miles of the Los Angeles Basin. The lower half of this watershed— approximately 37,600 acres—is subject to the Dominguez Channel EWMP. This EWMP Area is highly urbanized (91.9%), with over a third of the area in commercial and industrial uses.

The EWMP Area includes three receiving water bodies: Machado Lake, Dominguez Channel, and the Los Angeles Harbor. Machado Lake is a 40-acre freshwater lake/reservoir that impounds stormwater runoff from the Wilmington Drain, an LACFCD facility. Approximately 3,000 feet of the drain immediately upstream of Machado Lake is earthen-lined and vegetated; the remainder upstream is channelized. Immediately downstream of the lake is a 63-acre seasonal freshwater marsh. The portion of Dominguez Channel within the EWMP Area is composed of 3 miles of the lined channel between Imperial Highway near Interstate 105 to Vermont Avenue near Interstate 110, and 2.2 miles of the unlined tidal estuary channel downstream of Vermont Avenue. The

EWMP Area also includes 1.8 miles of the Torrance Carson Channel, or Torrance Lateral, which drains into the Dominguez Channel estuary. The estuary drains into the northeast side of the Consolidated Slip, the uppermost section of the tidal Los Angeles Harbor. The Los Angeles Inner Harbor within the EWMP Area covers about 3,000 acres and includes portions of both the Los Angeles and Long Beach Harbors. Other portions of the Los Angeles Harbor covered in the EWMP are the Fish Harbor (91 acres), and the inner and outer portions of Cabrillo Beach. Inner Cabrillo Beach (82 acres) on the north side of the peninsula (west of Fish Harbor) is considered to be a bay/harbor, while Outer Cabrillo Beach (~ 0.58 miles long) to the south is considered to be a coastal shoreline.

Malibu Creek

The Malibu Creek Watershed drains over 75,000 acres of the Santa Monica Mountains north of Los Angeles and is the largest contributing watershed to Santa Monica Bay. Over 42,000 acres of this watershed within Los Angeles County comprise the Malibu Creek EWMP Area. Unincorporated Los Angeles County lands account for 70% of the EWMP Area; this does not include federal lands within the Santa Monica Mountains National Recreation Area, state lands within Malibu Creek State Park, or lands managed by the Santa Monica Mountains Conservancy. Almost 80% of the EWMP Area is open space, with most development centered around the communities of Agoura Hills and Calabasas.

Major tributaries to Malibu Creek include Cold Creek, Las Virgenes Creek, Medea Creek, and Potrero Valley Creek. The creek terminates at the Pacific Ocean at Malibu Lagoon, which is currently the location of a multi-agency habitat and water quality enhancement project. The watershed is characterized by steep topography and densely vegetated ravines typical of undeveloped coastal mountains, which create many dangerous and inaccessible areas that cannot be safely monitored and are not suitable for water quality Best Management Practices (BMPs). In addition, the Monterey/Modelo formation outcrops in the watershed are natural sources of sulfate, phosphate, metals, and selenium, and are believed to contribute to the Malibu Creek Watershed water quality impairments. The development of the Malibu Creek EWMP is closely coordinated with that of the North Santa Monica Bay EWMP, which is responsible for lands to the west and east of the Malibu Creek Watershed Management Area.

Marina del Rey

Marina del Rey is the largest man-made small craft harbor in the world, and is a small contributing watershed to Santa Monica Bay. The Marina del Rey Harbor is open to the Santa Monica Bay through the main channel and shares a common breakwater with Ballona Creek. Of the 1400-acre EWMP Area, 92.7% is urbanized, with relatively high proportions of multifamily residential (27.4%) and commercial (19.1%) lands.

Four subwatersheds drain to the harbor: Subwatershed 1, composed primarily of unincorporated County lands immediately surrounding the main harbor; Subwatershed 2, which includes the Venice Canals and Ballona Lagoon that discharge into the main channel; Subwatershed 3, a small area north of the main harbor that drains into the harbor via the Boone Olive Pump Plant; and Subwatershed 4, which drains City of Los Angeles and Culver City lands into the 10-acre Oxford Basin, which is connected to the harbor via storm drains and tide gates. The 2004 Marina del Rey

Small Drain Survey completed for the Los Angeles County Department of Beaches and Harbors (LACDBH) identified approximately 724 small outfalls that discharge directly into harbor, the majority of which serve the individual parcels and small roads among the basins. LACDBH is responsible for approximately 700 of these outfalls associated with leased parcel sites, and the LACFCD is responsible for 20 outfalls and two storm drain inlets that flow into the Oxford Basin. No MS4 Permittee was identified for the remaining storm drains. A small section of the Ballona Wetlands drains into Subwatershed 1, but, as state lands, it is not subject to the MS4 Permit or EWMP process.

North Santa Monica Bay

The North Santa Monica Bay EWMP Area includes over 55,000 acres within Santa Monica Bay Jurisdictional Groups (JGs) 1 and 4, and the portion of 9 within the City of Malibu's borders. It does not include federal lands within the Santa Monica Mountains National Recreation Area, state lands within Malibu Creek State Park, or lands managed by the Santa Monica Mountains Conservancy. Similar to the Malibu Creek EWMP Area, most of the watershed is undeveloped open space—93.1%, more than any other EWMP Area. Most development is single-family housing within the incorporated boundaries of the City of Malibu. Like the Malibu Creek EWMP Area, the North Santa Monica Bay EWMP Area is characterized by steep topography and densely vegetated ravines typical of undeveloped coastal mountains.

The North Santa Monica Bay EWMP Area includes portions of 6 watersheds, 18 subwatersheds, and 28 coastal streams that all drain directly to Santa Monica Bay and are thus subject to the provisions of the California Ocean Plan (SWRCB, 2012). The Ocean Plan regulates waste discharges to protect the quality of ocean waters for use and enjoyment by the general public. In particular, the Ocean Plan designates Areas of Special Biological Significance (ASBS), which are areas requiring special protection of species or biological communities to the extent that maintenance of natural water quality is ensured. The area from Laguna Point to Latigo Point offshore of a portion of the North Santa Monica Bay EWMP Area is designated as ASBS 24. North Santa Monica Bay EWMP agencies requested and received an exemption from the Ocean Plan (SWRCB Resolution No. 2012-0012) that establishes criteria for allowable discharge of stormwater and nonpoint source pollution to Santa Monica Bay.

Palos Verdes Peninsula

The Palos Verdes Peninsula is situated in the southwestern portion of Los Angeles County atop the Palos Verdes Hills, which are bounded to the north by the City of Torrance, to the east by the City of Los Angeles, and to the south and west by the Pacific Ocean. The EWMP Area covers over 14,000 acres of incorporated, unincorporated (Los Angeles County), and LACFCD lands throughout the peninsula (see Figure 3.8-1); it does not include the City of Rolling Hills, which is participating in the peninsula's Coordinated Integrated Monitoring Program (CIMP). Most of the watershed's land use is distributed between single family housing (55.8%) and open space (30.2%), and the area is particularly known for its equestrian and golf facilities.

The EWMP Area is divided into two watersheds: (1) the Santa Monica Bay Watershed and (2) the Greater Dominguez Channel Watershed Management Area, which is further subdivided into two subwatersheds, the Los Angeles Harbor Subwatershed and the Machado Lake Subwatershed

(previously described in detail under the Dominguez Channel EWMP). A drainage divide dissects the Peninsula from the northeast to the southwest with the westerly portion (63% of the EWMP Area) draining into Santa Monica Bay and the easterly portion draining into Machado Lake (22%) and the Los Angeles Harbor (15%) subwatersheds. Water drains from the peninsula to receiving waters through a combination of vegetated open channels and storm drains.

Rio Hondo/San Gabriel River

The Rio Hondo/San Gabriel River EWMP Area includes over 26,000 acres of land within the eastern portion of the Los Angeles River watershed (tributary to Rio Hondo) (38% of the EWMP Area) and the upper portion of the urban San Gabriel River watershed (62%). The EWMP Area does not include federal lands that are part of Angeles National Forest. Approximately 73% of the EWMP Area is urbanized, with single-family housing comprising 47%. The remaining quarter of the area is undeveloped open space, mostly along lower slopes of the San Gabriel Mountains. Both Rio Hondo and the San Gabriel River are heavily urbanized, channelized, and managed systems.

Rio Hondo is a tributary of the Los Angeles River, which receives drainage from the Rio Hondo/San Gabriel River MS4 Permittees via several smaller tributaries: Arcadia Wash, Little Santa Anita Wash, Monrovia Canyon Wash, and Sawpit Wash. Prior to draining to the Rio Hondo, the Santa Anita and Sawpit Washes drain to Peck Road Water Conservation Park (a.k.a. Peck Road Lake), which then drains to the Rio Hondo. Peck Road Lake is owned by the LACFCD and maintained by the Los Angeles County Department of Parks and Recreation.

Reach 5 of the San Gabriel River receives drainage from Little Dalton Wash, Big Dalton Wash, and San Dimas Wash. About 4 miles below the mouth of the San Gabriel Canyon is the Santa Fe Dam and Reservoir, which is operated and maintained by the LACFCD through an easement with the U.S. Army Corps of Engineers (USACE). Both the Rio Hondo and San Gabriel River flow into the Whittier Narrows Reservoir upstream and may merge behind the reservoir during large storm events. Flows from the upper watershed are directed to spreading grounds located in and adjacent to the Rio Hondo and San Gabriel Rivers.

Santa Monica Bay Jurisdictions 2 + 3

The EWMP Area for Santa Monica Bay Jurisdictions 2 + 3 includes over 25,000 acres of land north and northwest of the Marina del Rey EWMP Area and East of the North Santa Monica Bay EWMP Area. Approximately half of the area is composed of mostly undeveloped lands within the Santa Monica Mountains; the other half includes much more urban areas in the cities of Los Angeles, Santa Monica, and El Segundo. The EWMP Area does not include state lands within Topanga State Park or those managed by the Santa Monica Mountains Conservancy, federal lands within the Santa Monica Mountains National Recreation Area, or Chevron lands at their facility in El Segundo.

Subwatersheds within the Santa Monica Bay EWMP Group Area include the mostly open space Castle Rock, Pulga Canyon, Temescal Canyon, and Santa Monica Canyon Subwatersheds characterized by steep topography and densely vegetated ravines typical of undeveloped coastal mountains. Other subwatersheds include the more urbanized Dockweiler and Santa Monica

subwatersheds, which are dominated by residential, commercial, and industrial uses.

Upper Los Angeles River

The area considered in the Upper Los Angeles River EWMP covers approximately 479 square miles (over 308,000 acres), which is more than half of the total area of the entire Los Angeles River watershed. A little over 75% of the watershed is urbanized, with slightly more than half of the watershed comprising multi- and single-family residential housing. The watershed includes multiple facilities owned and operated by LACFCD as well as multiple major transportation corridors.

The Los Angeles River is approximately 55 miles long, and five of six reaches lie within the Upper Los Angeles River EWMP Area. The natural hydrology of the Los Angeles River watershed has been significantly altered by urbanization, channelization, and the construction of dams and flood control reservoirs. The river and many of its tributaries are lined with concrete for most or all of their length. Soft-bottom segments of the river occur where groundwater upwelling prevents armoring of the river bottom. The river is segmented into six reaches by the Basin Plan as follows:

- Reach 6 begins at the headwaters of the Los Angeles River (the confluence of Arroyo Calabasas and Bell Creek) and extends to Balboa Boulevard.
- Reach 5 runs from Balboa Boulevard through the Sepulveda Basin.
- Reach 4 runs from Sepulveda Dam to Riverside Drive.
- Reach 3 runs from Riverside Drive to Figueroa Street.
- Reach 2 runs from Figueroa Street to Carson Street.
- Reach 1 runs from Carson Street to the estuary.

Reach 1 is outside the boundaries of the Upper Los Angeles River EWMP but is a receiving water body for the entire EWMP Area. Major tributaries to the Upper Los Angeles River include Aliso Canyon Creek, Bell Creek, Bull Creek, Tujunga Wash, Burbank Western Channel, Arroyo Seco, Rio Hondo, and Compton Creek. Other water bodies covered in the EWMP include Echo Park Lake, Legg Lake, and Lake Calabasas. The Los Angeles River is the focus of a proposed multi-agency restoration effort that aims to improve habitat, water quality, flood management, and recreational/transportation amenities along much of the length of the river. USACE recently approved \$1 billion in funding to restore 11 miles of the river from downtown through Elysian Park; this first phase would restore 719 acres of habitat and restore the river's confluence with Verdugo Wash.

Upper San Gabriel River

The Upper San Gabriel River EWMP Area includes almost 68,000 ac of land that are not covered within the Rio Hondo/San Gabriel River EWMP Area described above. The EWMP Area does not include state lands or federal lands that are part of Angeles National Forest. Similar to the Upper Los Angeles River watershed, approximately three quarters of the Upper San Gabriel River EWMP Area is urbanized, with approximately half in multi- and single-family housing. More than half of the area is unincorporated lands within the jurisdiction of Los Angeles County.

As previously mentioned, the San Gabriel River is a heavily managed system, with abundant channelization, dams, and other flood management infrastructure.

Water bodies within the EWMP area include Thompson Wash, Little Dalton Wash, Big Dalton Wash, San Dimas Creek, Walnut Creek Wash, Puente Creek, San Jose Creek Reaches 1 and 2, San Gabriel River Reaches 2 through 5, and the North Fork of Coyote Creek. Receiving waters downstream of the EWMP area include Reach 1 of the San Gabriel River, Coyote Creek, and the San Gabriel Estuary. Additionally, there are unnamed tributaries draining unincorporated County areas that discharge into Coyote Creek and Puddingstone Reservoir.

Upper Santa Clara River

The Upper Santa Clara EWMP Area includes over 121,400 ac of lands within unincorporated Los Angeles County and the City of Santa Clarita. Roughly three quarters of the watershed is undeveloped open space bounded by the San Gabriel and Santa Susana Mountains; the remaining quarter includes the urbanized portions of the City of Santa Clarita and its environs. The EWMP Area does not include the majority of the upper river's watershed located within state and federal lands, nor the downstream watershed within Ventura County.

The Santa Clara River is one of the last primarily "natural" rivers in Southern California, with relatively few dams/reservoirs in its watershed (Pyramid Lake and Castaic Lake are notable exceptions, though neither are regulated through this EWMP). Though much of the river is bounded by flood control levees, no portions of it are channelized into concrete structures like more urban rivers. In years of significant rainfall, ephemeral springs and year-round flows exist in some tributaries and natural upstream areas. The portion of the river downstream within Ventura County is a target for enhancement by the California Coastal Conservancy and other agencies; therefore, actions in the upper watershed that affect flows downstream must be carefully considered.

Beneficial Uses

Table F-2 on the following page summarizes the beneficial uses for major hydrologic features within each of the 12 EWMP Management Areas. The TMDLs described in Table F-3 are meant to maintain or improve these beneficial uses.

Total Maximum Daily Loads

Table F-3 on page 13 summarizes the relevant TMDLs for each Permittee within each EWMP Area. Some TMDLs, such as those for Santa Monica Bay, are applicable to multiple EWMP Areas.

**TABLE F-2
BASIN PLAN BENEFICIAL USES**

| EWMP Area & Water Body | REC-1 | REC-2 | HFS | MUN | IND | PROC | AGR | GWR | NAV | COMM | WARM | COLD | EST | MAR | WILD | BIOL | RARE | MIGR | SPWN | SHELL | WET |
|--|-------------------|--------------|-----------------|------------|------------|-------------|------------|------------|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|----------------|----------------|-----------------|--------------|------------|
| Ballona Creek | | | | | | | | | | | | | | | | | | | | | |
| Ballona Creek Estuary | E | E | | | | | | | E | E | | | E | E | E | | E ^e | E ^f | E ^f | E | |
| Ballona Lagoon | E | E | | | | | | | E | E | | | E | E | E | | E ^e | E ^f | E ^f | E | E |
| Ballona Wetlands | E | E | | | | | | | | | | | E | | E | | E ^e | E ^f | E ^f | | E |
| Del Rey Lagoon | E | E | | | | | | | E | E | | | E | | E | | E ^e | E ^f | E ^f | | E |
| Ballona Creek Reach 2 | P ^{s,au} | E | Y ^{av} | P* | | | | | | | P | | | | E | | | | | | |
| Ballona Creek Reach 1 | P ^{s,au} | E | Y ^{av} | P* | | | | | | | P | | | | E | | | | | | |
| Beach Cities | | | | | | | | | | | | | | | | | | | | | |
| Santa Monica Bay Nearshore + Offshore | E | E | | | E | | | | E | E | | | | E | E | E | E | E | E | E | |
| Manhattan Beach | E | E | | | | | | | E | E | | | | E | E | | | | P | E | |
| Hermosa Beach | E | E | | | | | | | E | E | | | | E | E | | | | E ^{as} | E | |
| King Harbor | E | E | | | E | | | | E | E | | | | E | E | | E | | | | |
| Redondo Beach | E | E | | | E | | | | E | E | | | | E | E | | E | E | E ^{as} | E | |
| Torrance Beach | E | E | | | E | | | | E | E | | | | E | E | | | E | E ^{as} | E | |
| Dominguez Channel | P* | E | E | P | | | | | | | P | | | | P | | E | | | | |
| Torrance Lateral | P* | E | E | P | | | | | | | P | | | | P | | E | | | | |
| Dominguez Channel | | | | | | | | | | | | | | | | | | | | | |
| Dominguez Channel (lined) | P | E | Y ^{av} | | | | | | | | P | | | | P | | E | | | | |
| Dominguez Channel Estuary (unlined) | E | E | | | | | | | P | E | | | E | E | E | | E | E | E | | |
| Torrance Lateral | P* | E | | P | | | | | | | P | | | | P | | E | | | | |
| Inner Harbor | P | E | | | | | | | | | | | | | | | | | | | |
| Public Beach Areas | E | E | | | | | | | | | | | | | | | | | | | |
| Malibu Creek | | | | | | | | | | | | | | | | | | | | | |
| Malibu Lagoon | E | E | | | | | | | | E | | | E | E | E | | E ^e | E ^f | E ^f | | E |
| Malibu Creek | E | E | | P* | | | | | | | E | E | | | E | | E | E | E | | E |
| Cold Creek | E | E | | P* | | | | | | | | P | | | E | | E | | P | | E |
| Las Virgenes Creek | E ^m | E | | P* | | | | | | | E | P | | | E | | E | P | P | | E |
| Century Reservoir | E | E | | P* | | | | | | | E | | | | E | | | | | | E |
| Malibou Lake | E | E | | P* | | | | | | E | E | | | | E | | E | | | | E |
| Madea Creek Reach 1 | I ^m | I | | P* | | | | I | | | I | | | | E | | E | | | | E |
| Madea Creek Reach 2 | E ^m | E | | I* | | | | I | | | E | | | | E | | | | | | E |
| Lindero Creek Reach 1 | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Lindero Creek Reach 2 | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Triunfo Creek Reach 1 | I ^m | I | | P* | | | | | | | I | | | | E | | | | | | |
| Triunfo Creek Reach 2 | I ^m | I | | P* | | | | I | | | I | | | | E | | E | | | | |
| Westlake Lake | E | E | | P* | | | | | | E | E | | | | E | | | | | | |
| Potrero Valley Creek | I | I | | P* | | | | I | | | P | | | | E | | | | | | |
| Lake Eleanor Creek | I | I | | P* | | | | I | | | I | | | | E | | | | | | |
| Lake Eleanor | E | E | | P* | | | | E | | | E | | | | E | | E | | | | E |
| Las Virgenes (Westlake) Reservoir | P ^{k,v} | E | | E | E | E | E | | | | P | | | | E | | | | | | |
| Hidden Valley Creek | I | I | | I* | | | | I | | | I | | | | E | | | | | | |
| Lake Sherwood | E | E | | P* | | | | E | | E | E | | | | E | | | | | | E |
| Marina del Rey | | | | | | | | | | | | | | | | | | | | | |
| Harbor | E | E | | | | | | | E | E | | | | E | E | | | | | | E |
| Public Beach Access | E | E | | | | | | | E | E | | | | E | E | | E | | | | |
| All Other Areas | P | E | | | | | | | E | E | | | | E | E | | E | | | | E |
| Entrance Channel | E | E | | | | | | | E | E | | | | E | E | | E | | | | E |
| North Santa Monica Bay Coastal Watersheds | | | | | | | | | | | | | | | | | | | | | |
| Malibu Lagoon | E | E | | | | | | | E | | | | E | E | E | | E | E | E | | E |
| Malibu Creek | E | E | | P* | | | | | | | E | E | | | E | | E | E | E | | E |
| Arroyo Sequit | E | E | | P* | | | | I | | | E | E | | | E | | E | E | E | | E |
| Nicholas Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Los Alisos Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | E | | | | |
| Lechuza Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |

TABLE F-2
BASIN PLAN BENEFICIAL USES

| EWMP Area & Water Body | REC-1 | REC-2 | HFS | MUN | IND | PROC | AGR | GWR | NAV | COMM | WARM | COLD | EST | MAR | WILD | BIOL | RARE | MIGR | SPWN | SHELL | WET |
|--|--------------------|-------|-----|-----|-----|------|-----|------------------|-----|------|--------------------|------|-----|-----|--------------------|------|-----------------|----------------|-----------------|-----------------|-----------------|
| Encinal Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | E | | | | |
| Trancas Canyon Creek | E | E | | E* | | | | | | | E | | | | E | | E | | | | |
| Zuma Canyon Creek | E | E | | E* | | | | | | | E | E | | | E | | E | P | P | | |
| Ramirez Canyon Creek | I | I | | I* | | | | | | | I | | | | E | | | | P | | |
| Escondido Canyon Creek | I | I | | I* | | | | | | | I | | | | E | | E | | | | |
| Latigo Canyon Creek | I | I | | I* | | | | | | | I | | | | E | | E | | | | |
| Puerco Canyon Creek | I | I | | I* | | | | | | | I | | | | E | | | | | | |
| Solstice Canyon Creek | E | E | | E* | | | | | | | E | | | | E | | | P | P | | |
| Corral Canyon Creek | I | I | | I* | | | | | | | I | | | | E | | | | | | |
| Carbon Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Las Flores Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Piedra Gorda Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Pena Canyon Creek | I | I | | P* | | | | | | | I | E | | | E | | | | | | |
| Tuna Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Topanga Canyon Creek | I | I | | P* | | | | | | | E | E | | | E | | | P | I | | |
| Palos Verdes Peninsula | | | | | | | | | | | | | | | | | | | | | |
| Los Angeles Coastal | | | | | E | | | | E | | | | | | | | | | | | |
| Santa Monica Bay Nearshore | E | E | | | E | | | | E | E | | | | | E | E | E ^e | E ^f | E ^f | E | |
| Machado Lake | E | E | | P* | | | | | | | E | | | | E | | E | | | | E |
| Inner LA Harbor | E | E | | | E | | | | E | E | | | | | | | E ^e | | | P | |
| Fish Harbor | E | E | | | E | | | | E | E | | | | | | | E | | | P | |
| Outer LA Harbor | E | E | | | | | | | E | E | | | | | | | E | | | P | |
| Rio Hondo/San Gabriel River | | | | | | | | | | | | | | | | | | | | | |
| Arcadia Wash | P | I | | P* | | | | I | | | P | | | | P | | | | | | |
| Little Santa Anita Canyon Creek | | | | P* | | | | I | | | I | | | | E | | | | | | |
| Santa Anita Wash | E ^{1,2} P | E | | P* | | | | E ^{1,2} | | | E ^{1,2} P | | | | E ^{1,2} P | | E | | | | |
| Monrovia Canyon Wash | I | I | | I | | | | I | | | I | | | | E | | | | | | E |
| Sawpit Wash | I | I | | I | | | | I | | | I | | | | E | | | | | | |
| Rio Honda Reach 3 | I | E | | P* | | | | I | | | P | | | | I | | E | | | | E |
| Peck Road Park Lake ⁴ | P ³ | E | | P* | | | | I | | | P | | | | I | | | | | | |
| San Gabriel River Reach 5 | E | E | | E | E | E | E | E | | | E | E | | | E | | | | | | |
| Little Dalton Wash | P ³ | I | | P* | | | | I | | | P | | | | P | | | | | | |
| Big Dalton Wash | P ³ | I | | P* | | | | I | | | P | | | | P | | | | | | |
| San Dimas Wash | I ³ | I | | P* | | | | E ^{1,2} | | | I | | | | E | | E ² | | | | |
| Santa Fe Dam Park Lake | P | I | | P* | | | | I | | | I | | | | E | | | | | | E |
| Santa Monica Bay Jurisdictions 2+3 | | | | | | | | | | | | | | | | | | | | | |
| Santa Monica Bay - Nearshore Zone ^a | E | E | | | E | | | | E | E | | | | | E | E | E ^{an} | E ^e | E ^f | E ^f | E ^{ar} |
| La Pulga Canyon ^a | | | | | E | | | | E | E | | | | | E | E | E ^{an} | E ^e | E ^f | E ^f | E ^{ar} |
| Temescal Canyon ^a | | | | | E | | | | E | E | | | | | E | E | E ^{an} | E ^e | E ^f | E ^f | E ^{ar} |
| Santa Monica Canyon Channel | P ³ | I | | P* | | | | | | | P | | | | P | | | | | | |
| Rustic Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Sullivan Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Mandeville Canyon Creek | I | I | | P* | | | | | | | I | | | | E | | | | | | |
| Santa Ynez Canyon | P ³ | E | | P* | | | | | | | I | | | | E | | E | | | | |
| Quarry Canyon ^a | P ³ | E | | P* | | | | | | | I | | | | E | | E | | | | |
| Trailer Canyon ^a | P ³ | E | | P* | | | | | | | I | | | | E | | E | | | | |
| Will Rogers Beach | E | E | | | | | | | E | E | | | | | E | E | | | | P | E |
| Santa Monica Beach | E | E | | | | | | | E | E | | | | | E | E | | E | E ^{a3} | E | |
| Venice Beach | E | E | | | | | | | E | E | | | | | E | E | | E | E | E ^{a3} | E |

**TABLE F-2
BASIN PLAN BENEFICIAL USES**

| EWMP Area & Water Body | REC-1 | REC-2 | HFS | MUN | IND | PROC | AGR | GWR | NAV | COMM | WARM | COLD | EST | MAR | WILD | BIOL | RARE | MIGR | SPWN | SHELL | WET |
|--|----------------|-------|-----------------|-----|-----|------|-----|-----|-----|------|------|------|-----|-----|------|------|----------------|----------------|----------------|----------------|-----|
| Dockweiler Beach | E | E | | | E | | | | E | E | | | | E | E | | | | P | | |
| Upper LA River ⁵ | | | | | | | | | | | | | | | | | | | | | |
| LA River Reach 6 | E | E | Y ^{av} | P* | P | | | E | | | E | | | | E | | | | | | E |
| Dry Canyon Creek | I ^m | I | | P* | | | | I | | | I | | | | E | | | | | | |
| McCoy Creek | I | I | | P* | | | | I | | | I | | | | E | | | | | | |
| Bell Creek | I ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| Aliso Canyon Wash | I ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| Bull Creek | I ^m | I | | P* | | | | I | | | I | | | | E | | | | | | |
| LA River Reach 4+5 | E | E | Y ^{av} | P* | P | | | E | | | E | | | | E | | | | | | E |
| Pacoima Wash | P ^m | E | | P* | | | | E | | | E | | | | E | | E | | | | |
| Tujunga Wash | P ^m | I | Y ^{av} | P* | | | | I | | | P | P | | | P | | | | | | |
| LA River Reach 3 | E | E | Y ^{av} | P* | P | | | E | | | E | | | | E | | | | | | |
| Burbank Western Channel | P ^m | I | Y ^{av} | P* | | | | | | | P | | | | P | | | | | | |
| Verdugo Wash | P ^m | I | Y ^{av} | P* | | | | I | | | P | | | | P | | | | | | |
| Arroyo Seco | I ^m | I | | P* | | | | | | | P | | | | P | | | | | | |
| LA River Reach 2 | E ^s | E | Y ^{av} | P* | P | | | E | | | E | | | | P | | | | | | |
| Rio Honda Reach 2 + 3 | I ^m | E | Y ^{av} | P* | | | | I | | | P | | | | I | | | | | | |
| Rio Honda Reach 1 | P ^m | E | Y ^{av} | P* | | | | I | | | P | | | | I | | | | | | |
| Compton Creek | E ^s | E | | P* | | | | E | | | E | | | | E | | | | | | E |
| LA River Reach 1 | E ^s | E | Y ^{av} | P* | P | P | | E | | | E | | | E | E | | E | P | P | P ^s | |
| Echo Park Lake | P | E | | P* | | | | | | | P | | | | E | | | | | | |
| Legg Lake | E | E | | P* | | | | E | | | E | | | | E | | | | | | E |
| Upper San Gabriel River ⁵ | | | | | | | | | | | | | | | | | | | | | |
| Thompson Wash | I ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| Little Dalton Wash | P ^m | I | | P* | | | | I | | | P | | | | P | | | | | | |
| Big Dalton Wash | P ^m | I | Y ^{av} | P* | | | | I | | | P | | | | P | | | | | | |
| San Dimas Wash (Upper) | I ^m | I | | P* | | | | E | | | I | | | | E | | | | | | |
| San Dimas Wash (Lower) | I ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| Walnut Creek Wash | I ^m | I | | P* | | | | I | | | I | | | | E | | | | | | E |
| Puente Creek | P | I | | P* | | | | I | | | P | | | | P | | | | | | |
| Upper San Gabriel Reach 5 (Santa Fe Dam to Huntington Dr.) | I ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| Upper San Gabriel Reach 5 (Huntington Dr. to Van Tassel Cyn) | E | E | | E | E | E | E | E | | | E | E | | | E | | E | | | | |
| Upper San Gabriel Reach 5 (Van Tassel Cyn to SG Reservoir) | E | E | | E | E | E | E | E | | | E | E | | | E | | | | | | |
| San Gabriel River Reach 3 + 4 | I ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| San Jose Creek Reach 1 + 2 | P ^m | I | Y ^{av} | P* | | | | I | | | I | | | | E | | | | | | |
| San Gabriel River Reach 2 | E ^m | E | Y ^{av} | P* | P | P | | I | | | I | | | | E | | E | | | | |
| San Gabriel River Reach 1 | E ^m | E | Y ^{av} | P* | | | | | | | P | | | | P | | E | | | | |
| Coyote Creek | P ^m | I | Y ^{av} | P* | P | P | | | | | P | | | | P | | E | | | | |
| San Gabriel River Estuary | E | E | | | E | | | | E | E | | | E | E | E | | E ^e | E ^f | E ^f | P | |
| Puddingstone Reservoir | E | E | | E* | | | E | E | | | E | E | | | E | | E | | | | |
| Upper Santa Clara River ⁵ | | | | | | | | | | | | | | | | | | | | | |
| Santa Clara River Reach 5 + 6 + 7 | E | E | | P* | E | E | E | E | | | E | | | | E | | E | | | | E |
| Santa Clara River Reach 4B | E | E | | P* | E | E | E | E | | | E | | | | E | | E | E | | | E |
| Bouquet Canyon (SCR R6 to Vasquez Cyn) | E ^m | E | | E,I | E,I | P,I | P,I | E | | | E | E | | | E | | | | P | | E |
| Bouquet Canyon (above Vasquez Cyn) | E ^m | E | | P | P | P | E | E | | | E | E | | | E | | E | | | | E |
| Lake Elizabeth | E | E | | P | P | P | P | P | | | E | | | | E | | E | | | | |
| Mint Canyon | E ^m | E | | I* | I | I | I | I | | | I | | | | E | | | | | | |

**TABLE F-2
BASIN PLAN BENEFICIAL USES**

| EWMP Area & Water Body | REC-1 | REC-2 | HFS | MUN | IND | PROC | AGR | GWR | NAV | COMM | WARM | COLD | EST | MAR | WILD | BIOL | RARE | MIGR | SPWN | SHELL | WET | |
|------------------------|-------|-------|-----|-----|-----|------|-----|-----|-----|------|------|------|-----|-----|------|------|----------------|------|------|-------|-----|--|
| Piru Creek | E | E | | P | E | E | E | E | | | E | E | | | E | | E ^g | E | E | | E | |
| Munz Lake | E | E | | P* | P | P | P | E | | | E | | | | E | | | | | | | |
| Lake Hughes | E | E | | P | P | P | P | P | | | E | | | | E | | | | | | | |
| Castaic Lake | E | E | | E | E | E | E | E | | | E | I | | | E | | E | | E | | | |
| Pyramid Lake | E | E | | E | E | E | E | E | | | E | E | | | E | | E | | | | | |

E: Existing beneficial use
P: Potential beneficial use action would require a detailed analysis of the area.
I: Intermittent beneficial use
E, P, and I: shall be protected as required.
*: Asterisked MUN designations are designated under SB 88-63 and RB 89-03. Some designations may be considered for exemption at a later date.
a: Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries. Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.
b: Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody. Any regulatory action would require a detailed analysis of the area.
c: Coastal waterbodies which are also listed in inland Surface Waters Tables (2-1) or in Wetlands Table (2-4).
e: One or more rare species utilizes all ocean, bays, estuaries, and coastal wetlands for foraging and/or nesting.
f: Aquatic organisms utilize all bays, estuaries, lagoons, and coastal wetlands, to a certain extent, for spawning and early development. This may include migration into areas which are heavily influenced by freshwater inputs.
m: Access prevented by Los Angeles County Department of Public Works in concrete-channelized areas.
an: Areas of Special Biological Significance: along coast from Latigo Point to Laguna Point, Big Sycamore Canyon and Abalone Cove Ecological Reserves, and Point Fermin Marine Life Refuge.
ar: Areas exhibiting large shellfish populations include Malibu, Point Dume, Point Fermin, White Point and Zuma Beach.
as: Most frequently used grunion spawning beaches. Other beaches may be used as well.
au: The REC-1 use designation does not apply to recreational activities associated with the swimmable goal as expressed in the Federal Clean Water Act section 101(a)(2) and regulated under the REC-1 use in the Basin Plan, or the associated bacteriological objectives set to protect those activities. However, water quality objectives set to protect other REC-1 uses associated with the fishable goal as expressed in the Federal Clean Water Act section 101(a)(2) shall remain in effect for waters where the (au) footnote appears.
av: The High Flow Suspension only applies to water contact recreational activities associated with the swimmable goal as expressed in the federal Clean Water Act section 101(a)(2) and regulated under the REC-1 use, noncontact water recreation involving incidental water contact regulated under the REC-2 use, and the associated bacteriological objectives set to protect those activities. Water quality objectives set to protect (1) other recreational uses associated with the fishable goal as expressed in the federal Clean Water Act section 101(a)(2) and regulated under the REC-1 use and (2) other REC-2 uses (e.g., uses involving the aesthetic aspects of water) shall remain in effect at all times for waters where the (av) footnote appears.

1. Only applies to upper portion of the corresponding water body.
2. Only applies to lower portion of the corresponding water body.
3. Access prohibited by Los Angeles County Department of Public Works
4. Beneficial uses were not identified in the Basin Plan for Peck Road Park Lake. Therefore the downstream segment's uses (Rio Hondo Reach 1) apply based on Regional Board input (USEPA, 2012b).
5. Only major water bodies listed here; for complete list see Basin Plan.

**TABLE F-3
RELEVANT TMDLS FOR EWMP PERMITTEES**

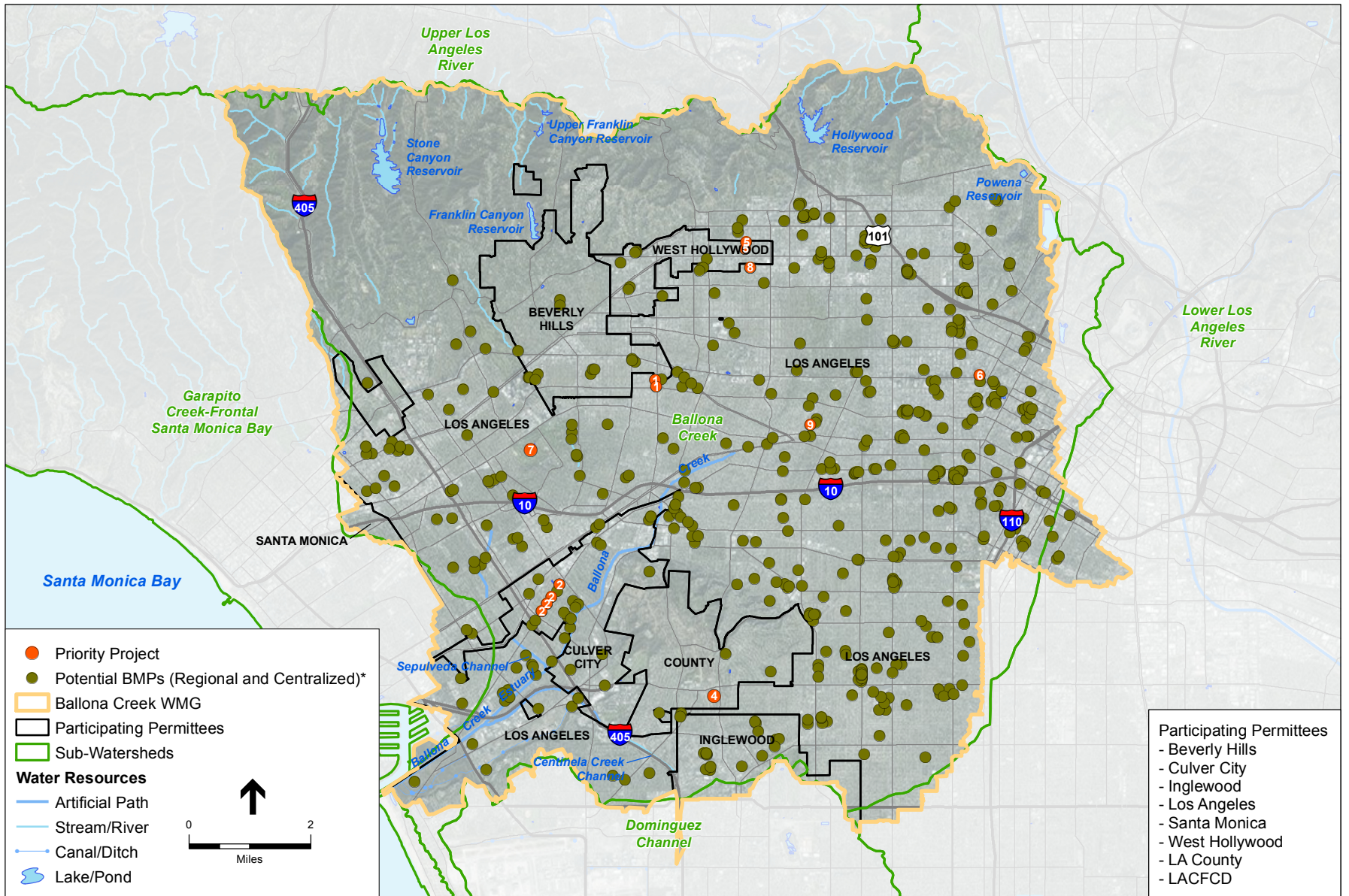
| Water Body | TMDL | LARWQCB Resolution # | Rio Honda/San Gabriel EWMP | | | | | | | | SMB EWMP | | | | Upper LA River EWMP | | | | | | | | | | | | Upper San Gabriel River EWMP | | | | | + | | | | | | | | | | | | | | |
|-------------------|--------------------------------------|-------------------------------|----------------------------|-------|----------|--------|----------|--------------|-------------|-----------|----------|------------|--------------|-------------|---------------------|-------|----------|---------|-----------|----------|--------------|----------------------|-------------|------------|---------------|----------|------------------------------|-------------|------------|----------------|-------------|-----------|-------|--------------|--------|----------|----------|-----------|-----------|-------|---------------|-----------|-------|---|---|--|
| | | | Arcadia | Azusa | Bradbury | Duarte | Monrovia | Sierra Madre | Los Angeles | LA County | LAFCD | El Segundo | Santa Monica | Los Angeles | LA County | LAFCD | Alhambra | Burbank | Calabasas | Glendale | Hidden Hills | La Canada Flintridge | Los Angeles | Montebello | Monterey Park | Pasadena | Rosemead | San Gabriel | San Marino | South Pasadena | Temple City | LA County | LAFCD | Baldwin Park | Covina | Glendora | Industry | La Puente | LA County | LAFCD | Santa Clarita | LA County | LAFCD | | | |
| San Gabriel River | Metals: Copper, Lead, Zinc, Selenium | 2006-014 (amended by R13-004) | X | X | X | X | X | | X | X | | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | | | | | | | |
| Santa Clara River | Nitrogen | 2003-011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | |
| | Chloride | 2008-012 (amended by R14-010) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | |
| | Bacteria: <i>E. coli</i> | R10-006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | |
| Lake Elizabeth | Trash | 2007-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

1 Italics indicate Permittees within multiple EWMP areas.
2. Table does not note TMDLs that are applicable to Permittees outside the EWMP Process.

Appendix G

EWMP Proposed BMP and Priority Project Data



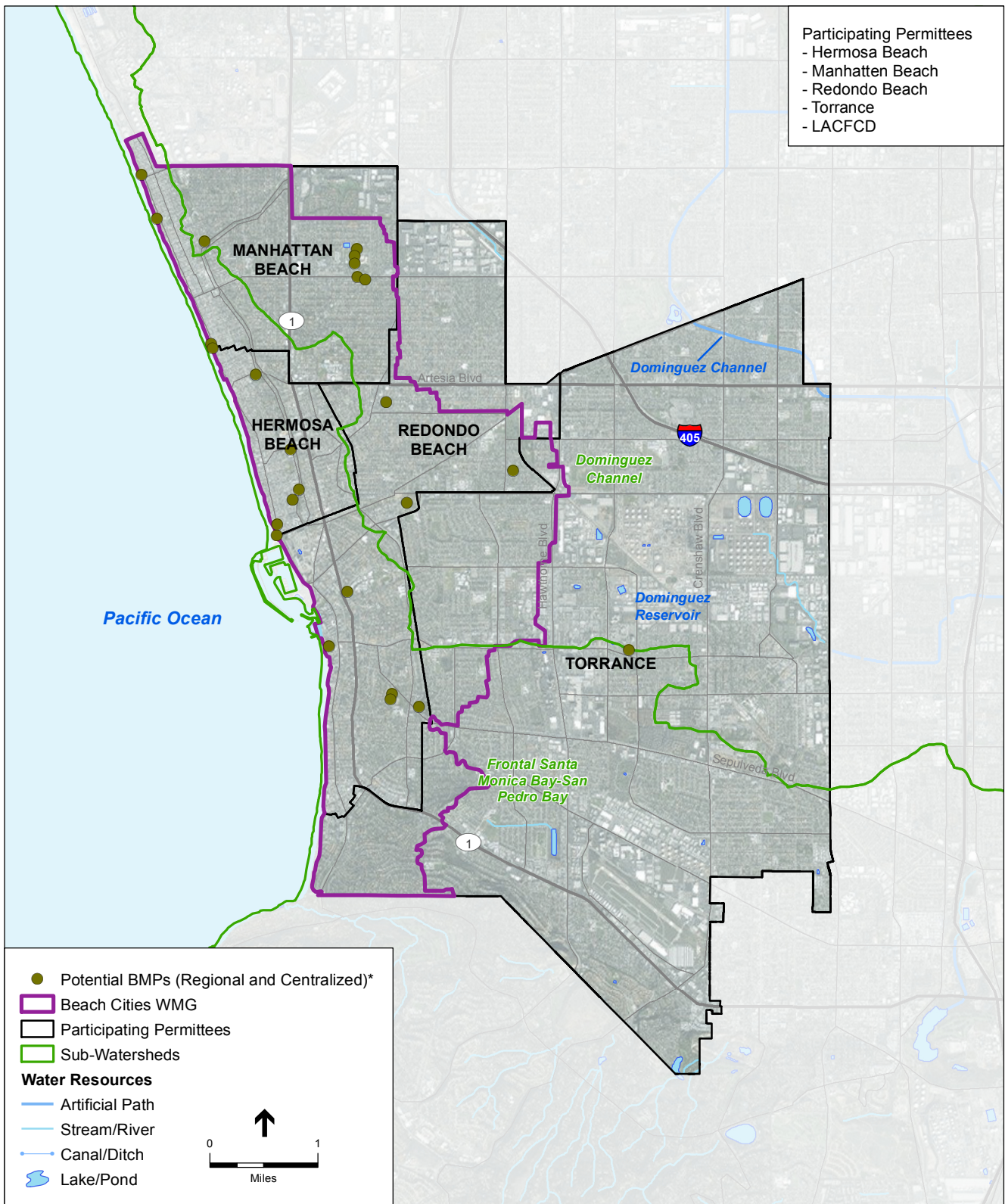


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure A
Ballona Creek
Watershed Management Group

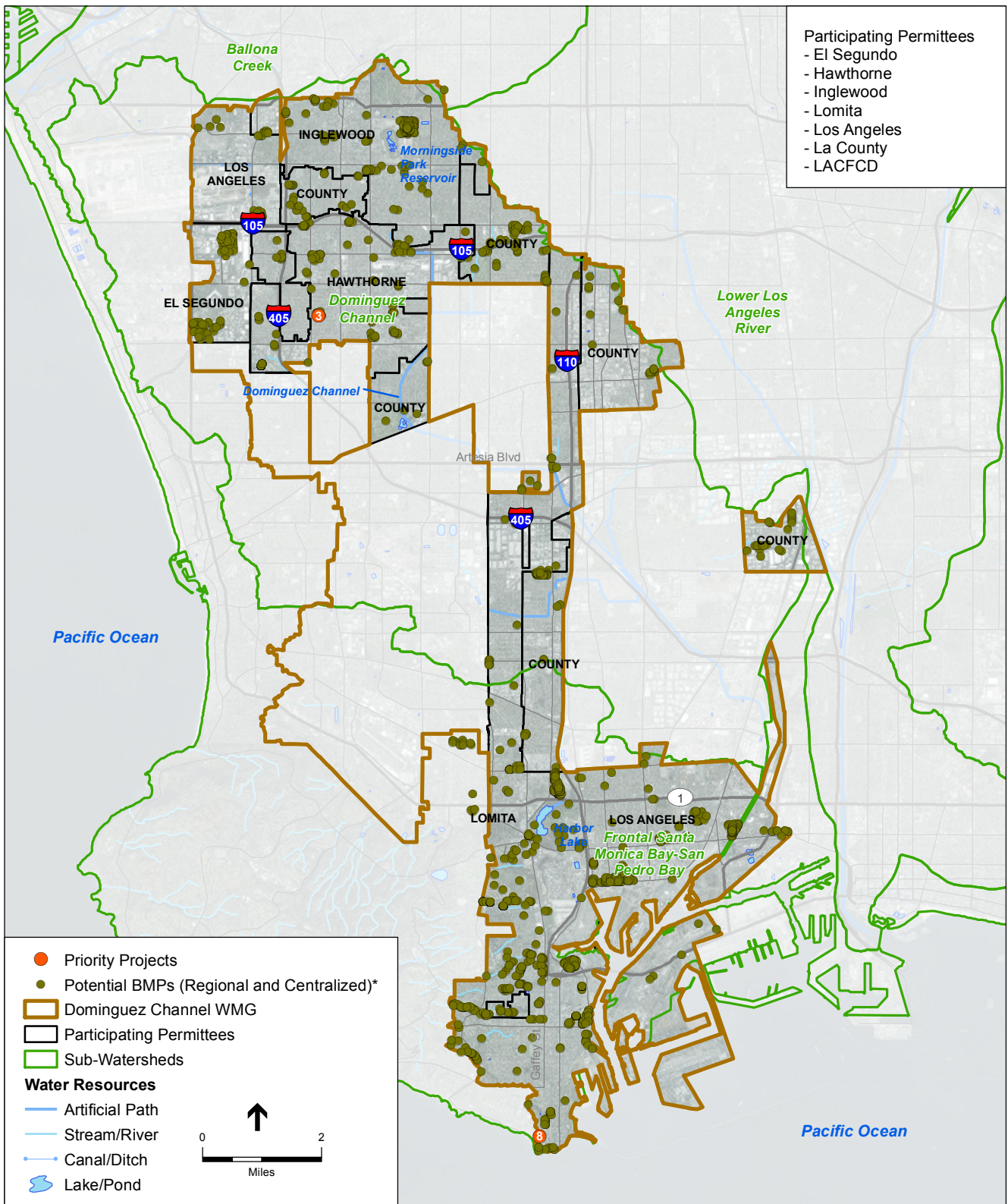


Participating Permittees
 - Hermosa Beach
 - Manhattan Beach
 - Redondo Beach
 - Torrance
 - LACFCD

* Potential Distributed BMP not shown - predominantly located in urbanized areas
 * Priority Projects have yet to be determined

SOURCE: ESRI; National Hydrology Dataset.

Figure B
 Beach Cities Watershed Management Group

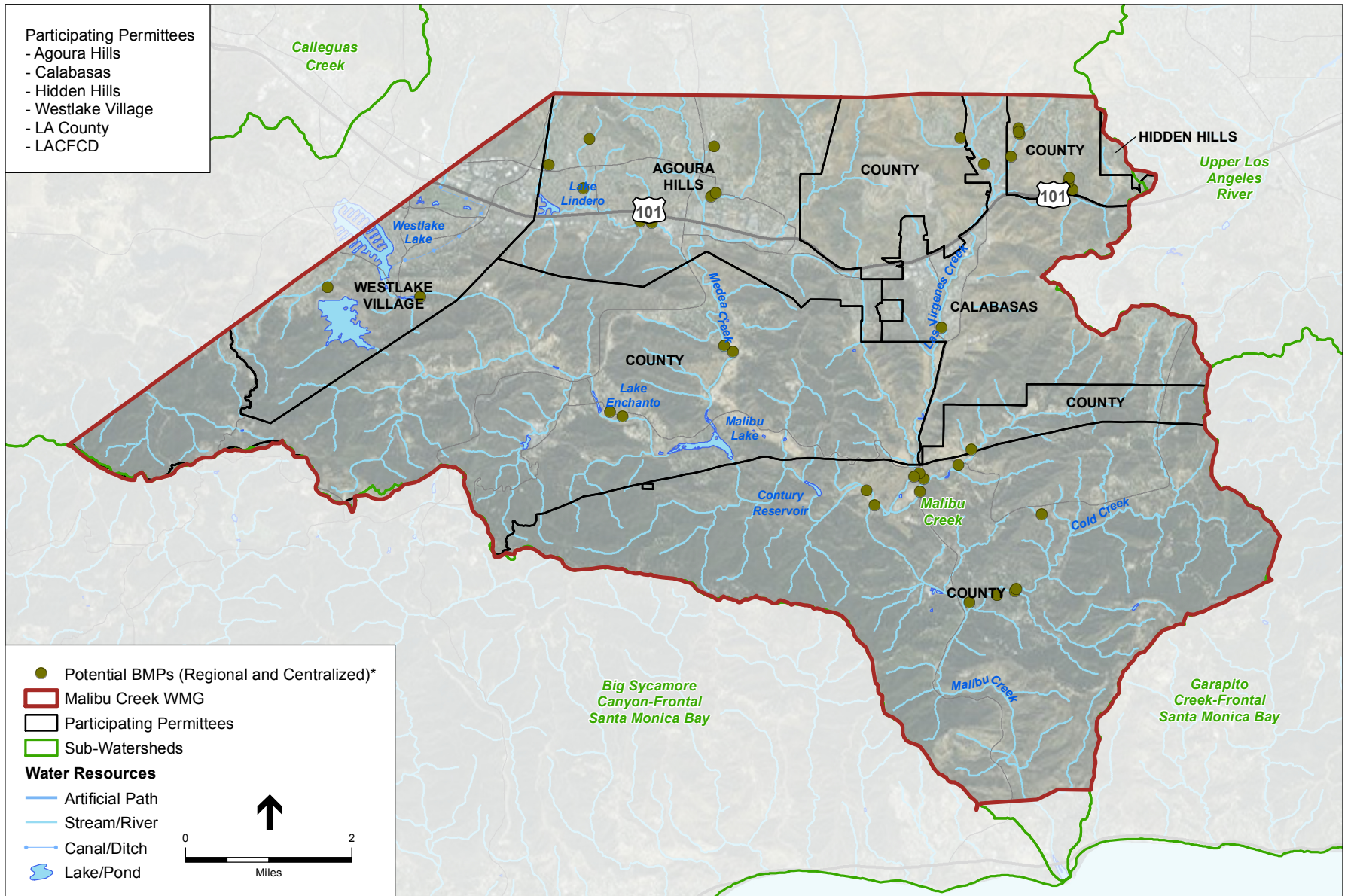


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure C
Dominguez Channel Watershed Management Group



* Potential Distributed BMP not shown - predominantly located in urbanized areas

* Priority Projects have yet to be determined

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

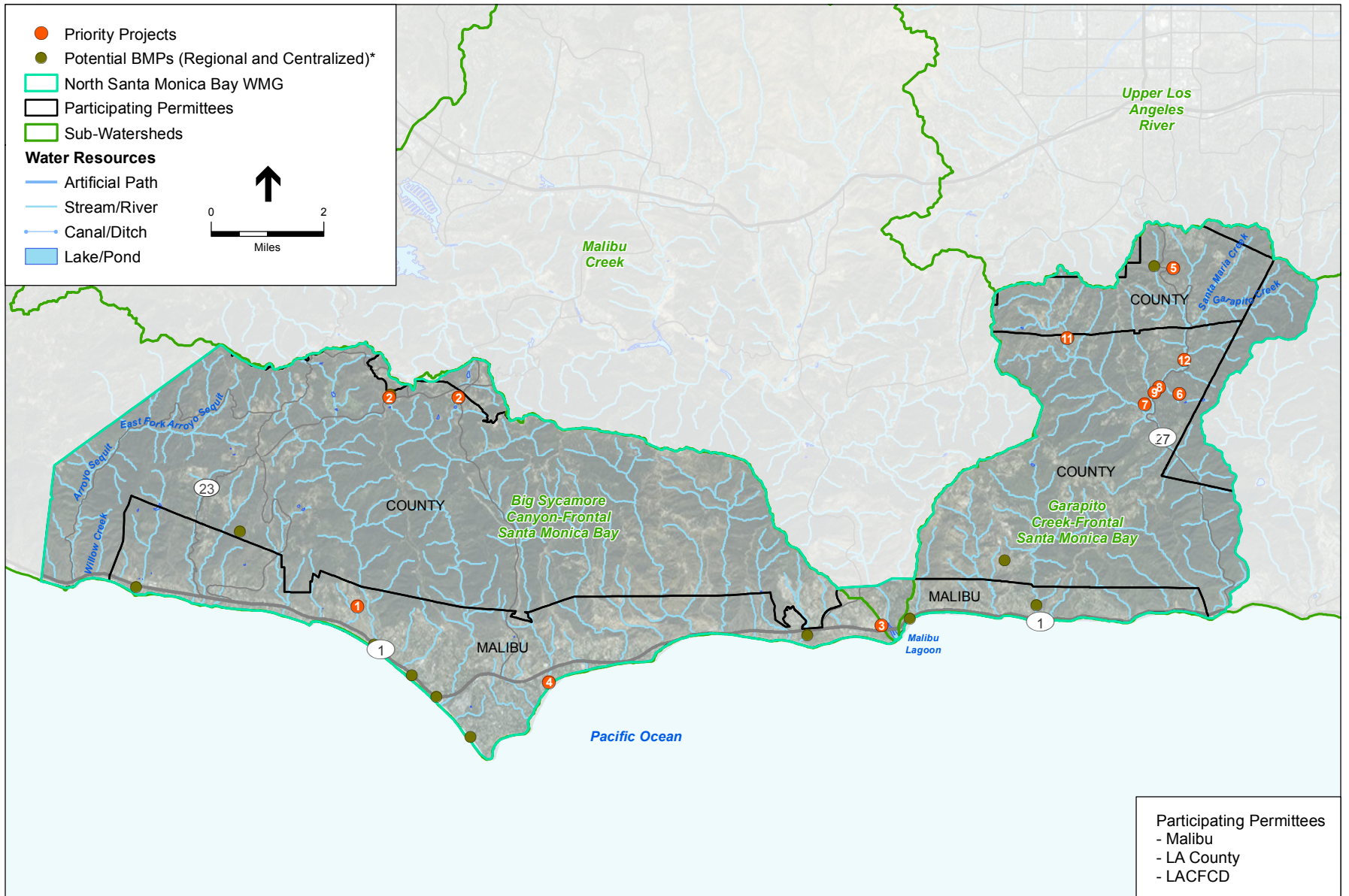
Figure D
Malibu Creek
Watershed Management Group



SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure E
Marina del Rey
Watershed Management Group

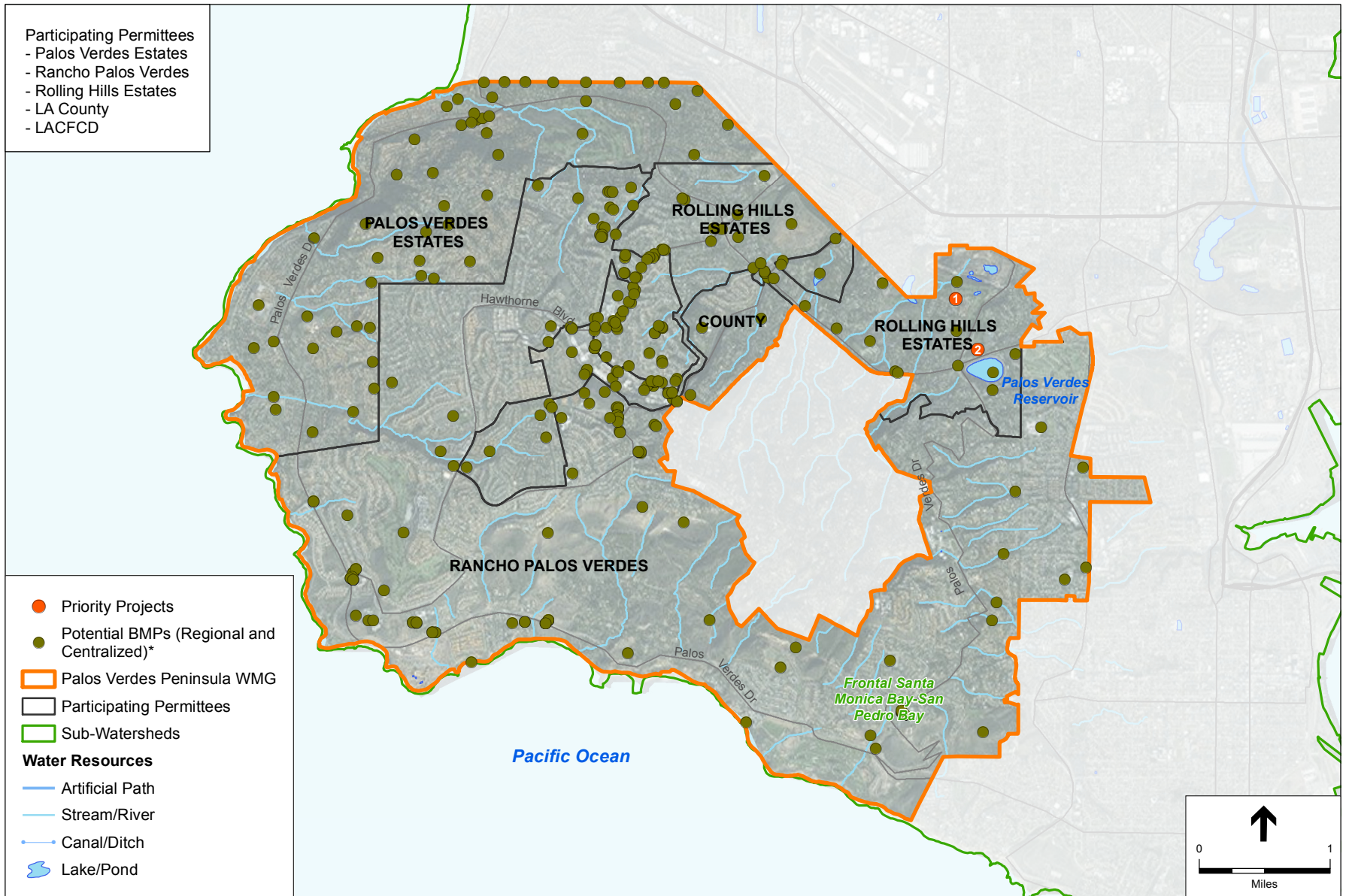


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure F
North Santa Monica Bay Coastal Watersheds

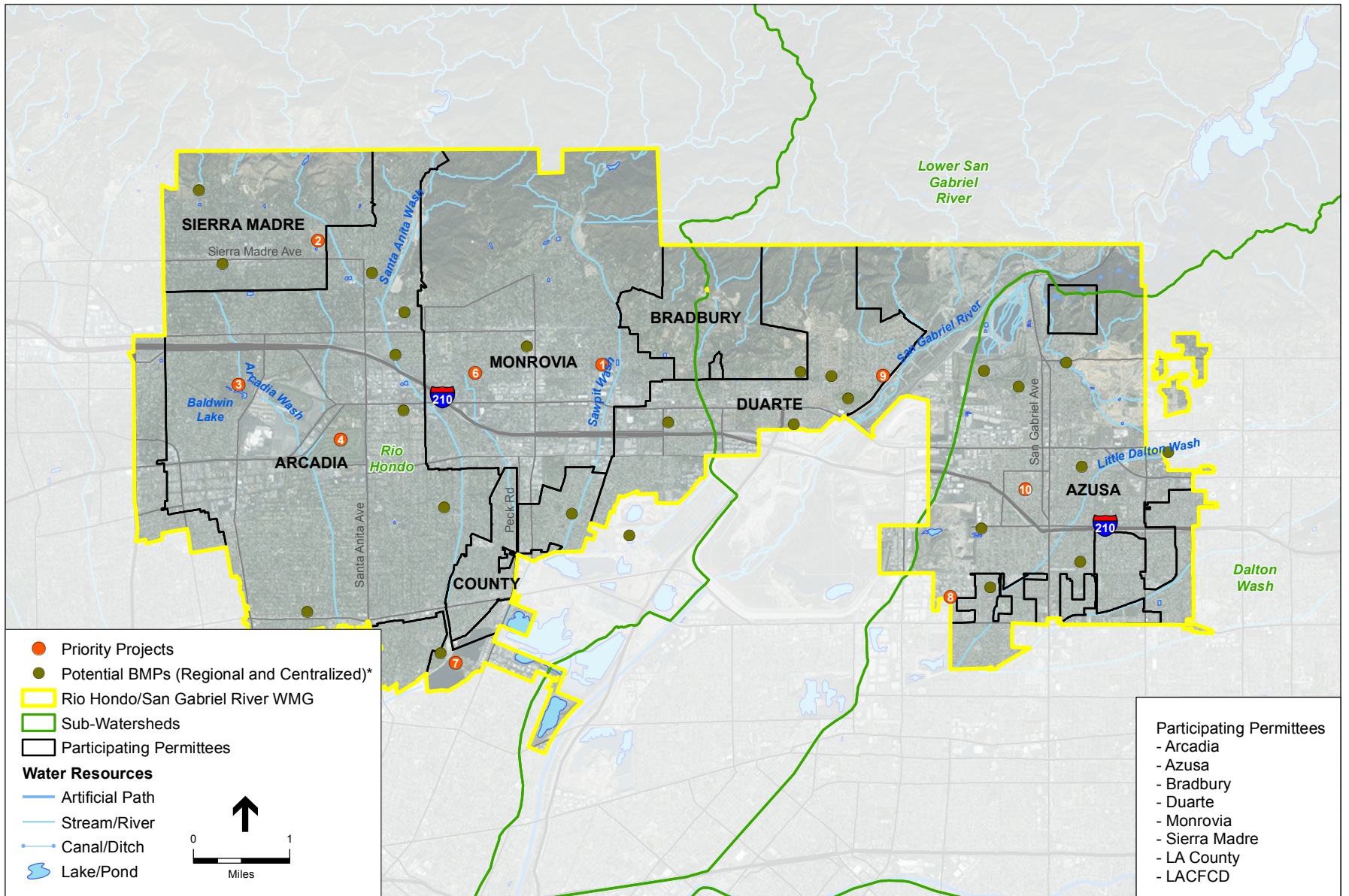


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure G
Palos Verdes Peninsula
Watershed Management Group

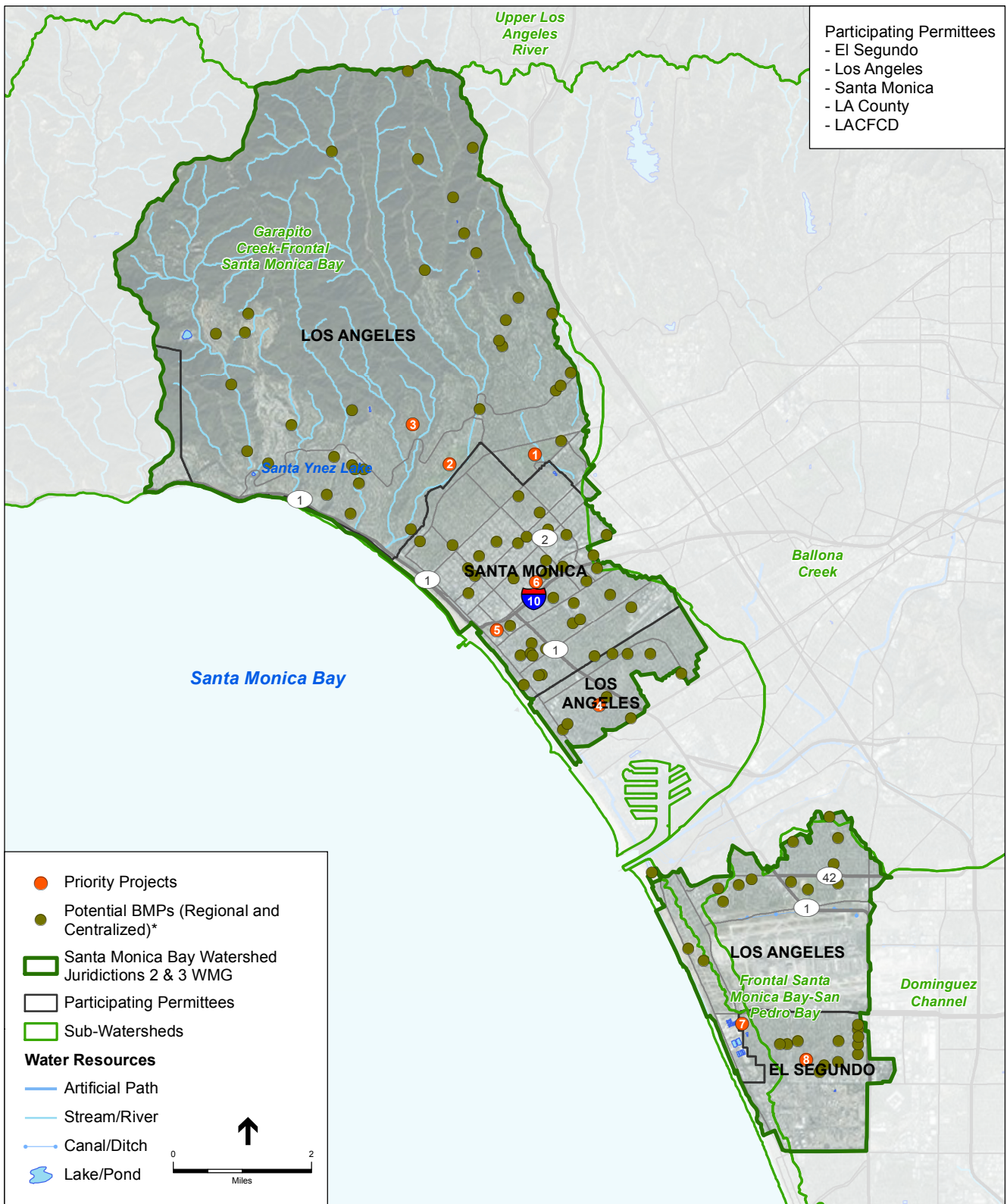


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure H
 Rio Hondo / San Gabriel River
 Watershed Management Group

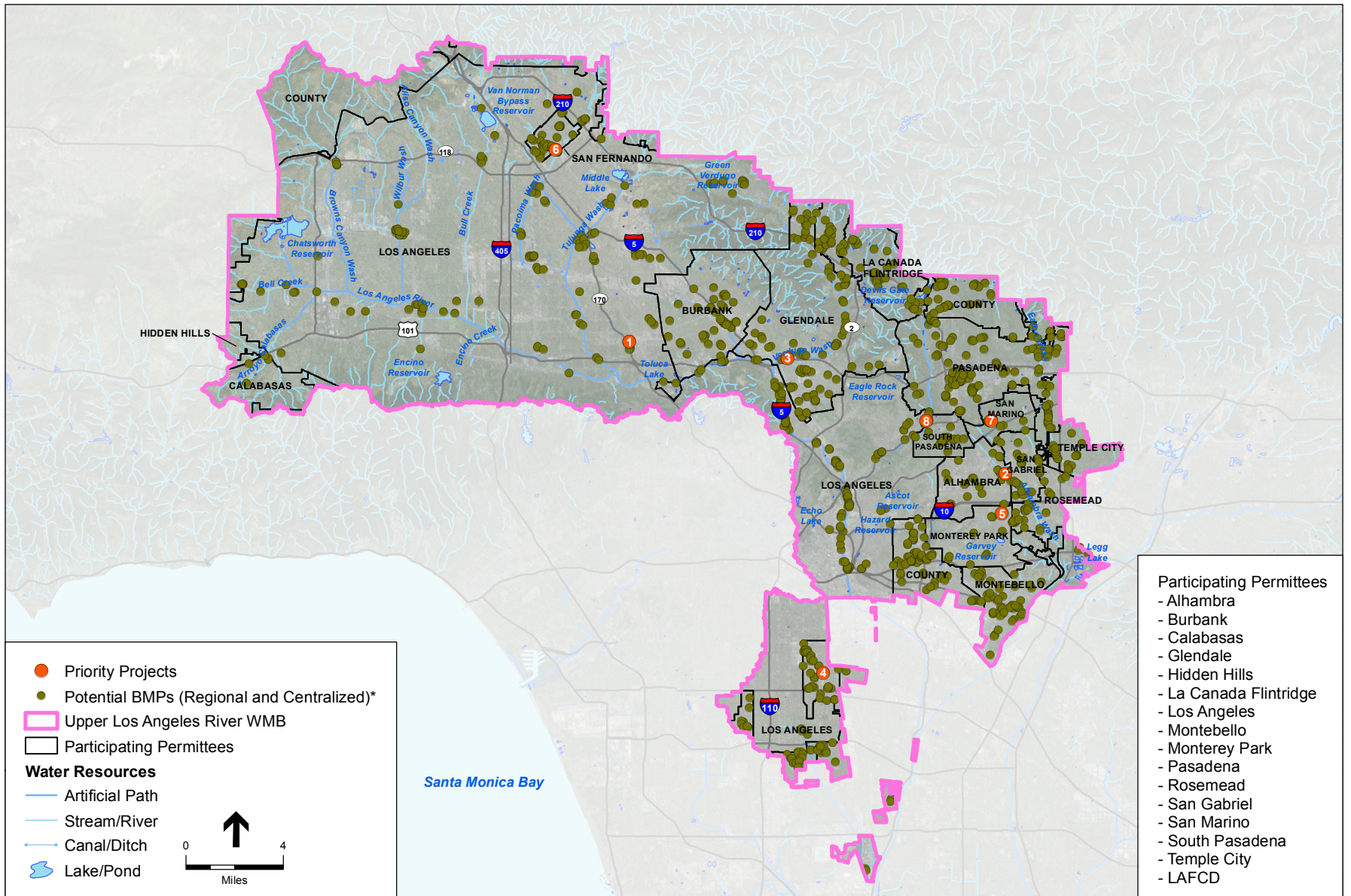


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure I
 Santa Monica Bay Watershed Jurisdictions 2 and 3
 Watershed Management Groups

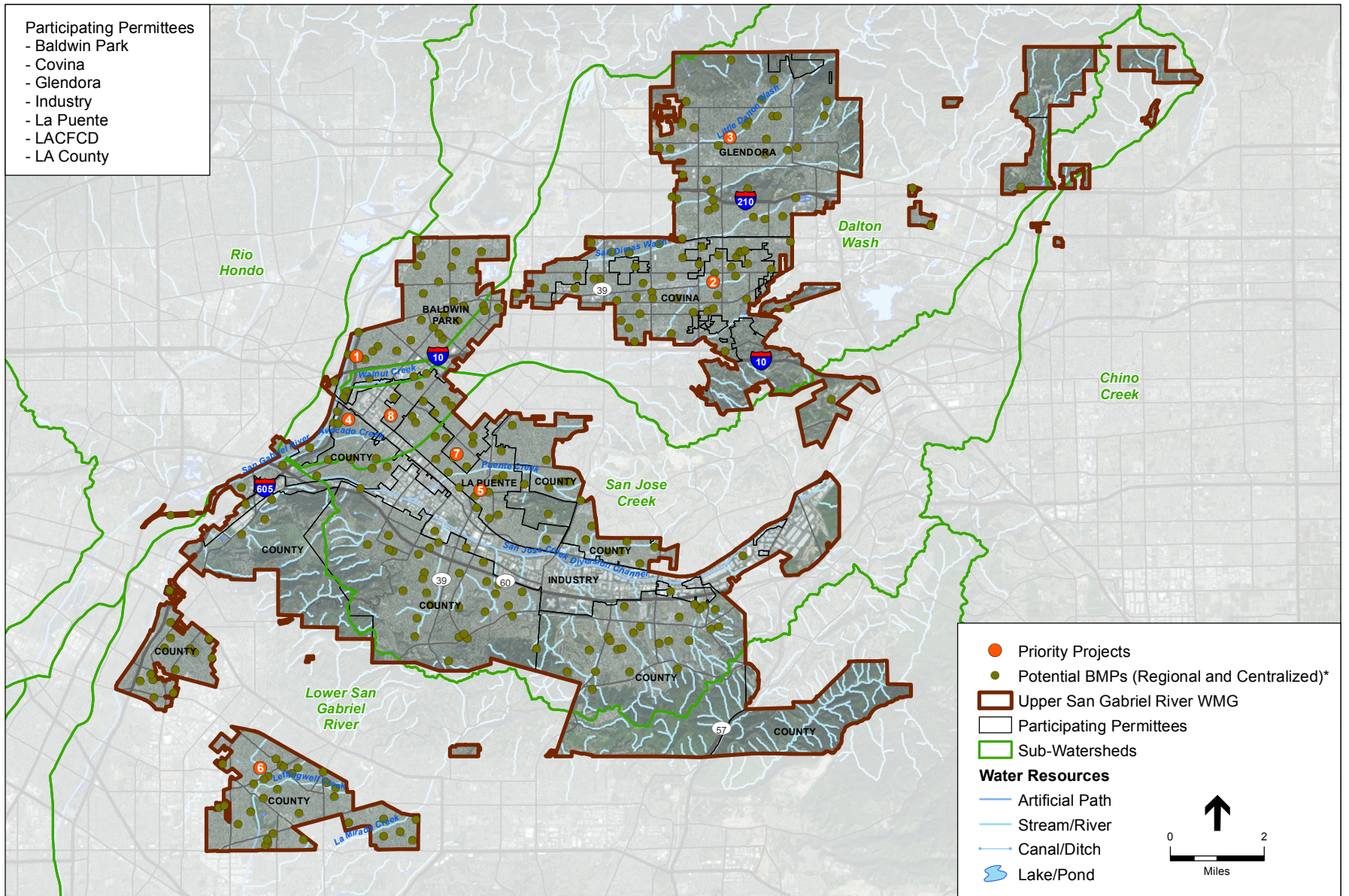


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure J
Upper Los Angeles River
Watershed Management Group

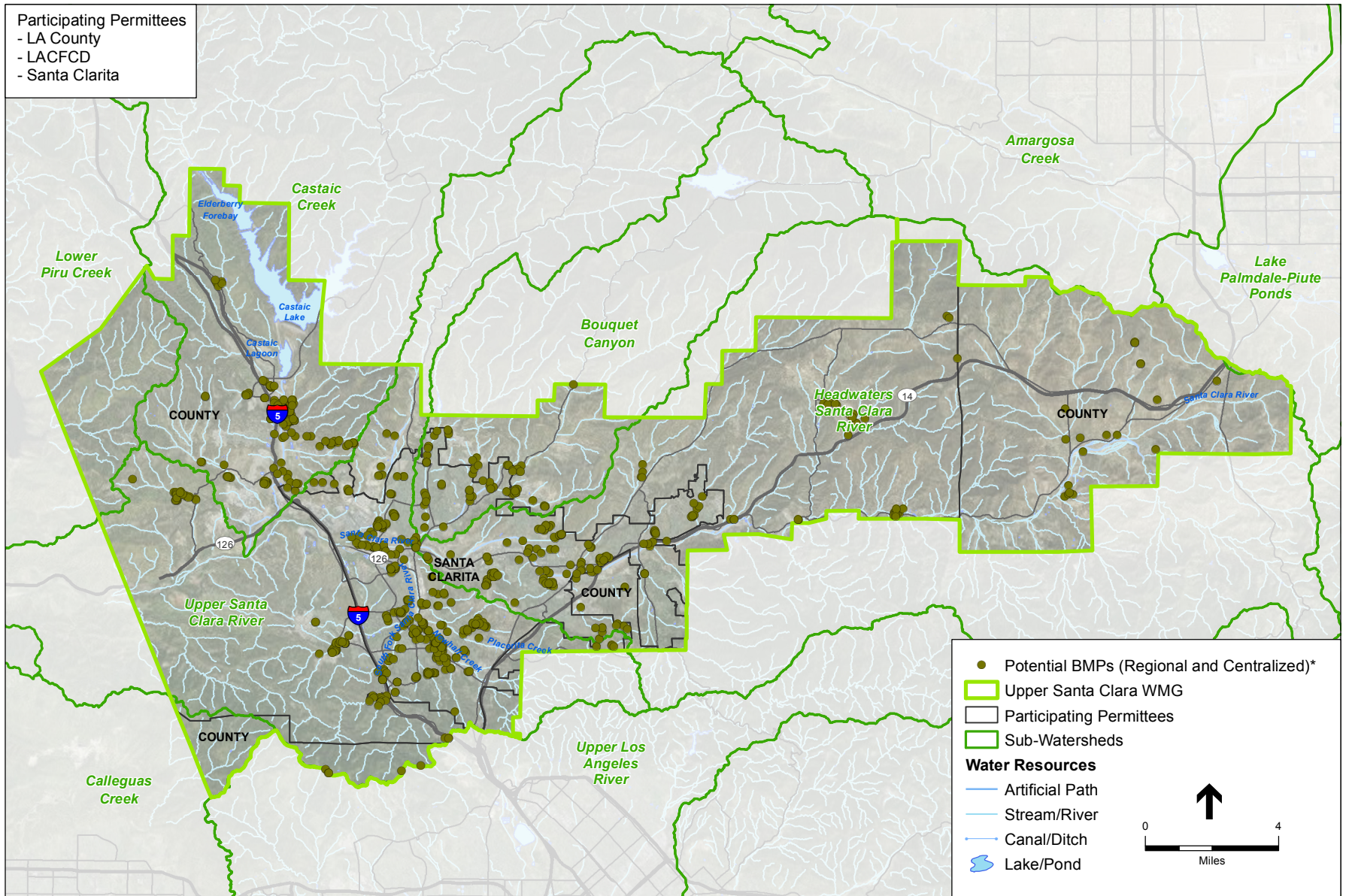


* Potential Distributed BMP not shown - predominantly located in urbanized areas

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure K
Upper San Gabriel River
Watershed Management Groups



* Potential Distributed BMP not shown - predominantly located in urbanized areas
 * Priority Projects have yet to be determined

SOURCE: ESRI; National Hydrology Dataset.

LA County PEIR EWMP . 140474

Figure L
 Upper Santa Clara River Watershed
 Watershed Management Group

| Priority Projects | | | |
|--|--|--|------------------|
| EWMP Group | Approximate Project Location | Figure Number and Title | ID Number |
| Ballona Creek | | | |
| La Cienega Park – Multi-Use Detention Basin | 8400 Gregory way, Bev Hills, CA 90211 | Figure A, Ballona Creek Watershed Management Group | 1 |
| Culver Blvd Median | Culver Blvd between Sepulveda and Overland | Figure A, Ballona Creek Watershed Management Group | 2 |
| Edward Vincent – Subsurface flow wetland with equalization storage | | Figure A, Ballona Creek Watershed Management Group | 3 |
| Ladera Park | 6027 Ladera Park Ave, Los Angeles, CA 90056 | Figure A, Ballona Creek Watershed Management Group | 4 |
| Plummer Park | 7377 Santa Monica Blvd, West Hollywood, CA 90046 | Figure A, Ballona Creek Watershed Management Group | 5 |
| Lafayette Park | Los Angeles, CA 90005 | Figure A, Ballona Creek Watershed Management Group | 6 |
| Rancho Park Golf Course | 10460 W Pico Blvd, Los Angeles, CA 90064 | Figure A, Ballona Creek Watershed Management Group | 7 |
| Poinsetta Recreation Center | 7341 Willoughby Avenue, Los Angeles, CA 90046 | Figure A, Ballona Creek Watershed Management Group | 8 |
| Queen Anne Recreation Center | 1240 West Blvd, Los Angeles, CA 90019 | Figure A, Ballona Creek Watershed Management Group | 9 |
| Beach Cities Watershed Management Group | | | |
| Not yet determined | | Figure B, Beach Cities Watershed Management Group | |
| Dominguez Channel Watershed Management Area Group | | | |
| Darcy Park – Infiltration | | Figure C, Dominguez Channel Watershed Management Group | 1 |
| El Segundo Project – Infiltration | | Figure C, Dominguez Channel Watershed Management Group | 2 |
| Ramona Park – Capture and Reuse | 4662 West 136th Street Hawthorne, CA 90250 | Figure C, Dominguez Channel Watershed Management Group | 3 |
| Jim Thorpe – Infiltration | | Figure C, Dominguez Channel Watershed Management Group | 4 |
| Chester Washington – Infiltration | | Figure C, Dominguez Channel Watershed Management Group | 5 |
| Helen Keller – Infiltration | | Figure C, Dominguez Channel Watershed Management Group | 6 |
| Harbor City/Wilmington Drain – Capture and Reuse | | Figure C, Dominguez Channel Watershed Management Group | 7 |
| Averill Park – Infiltration | 1300 South Dodson Avenue San Pedro, CA 90732 | Figure C, Dominguez Channel Watershed Management Group | 8 |
| Malibu Creek Watershed | | | |
| Not yet determined | | Figure D, Malibu Creek Watershed Management Group | |
| Marina del Rey | | | |
| Area 1 – Green Streets | Venice Blvd | Figure E, Marina del Rey Watershed Management Group | 1 |

| Priority Projects | | | |
|--|--|--|------------------|
| EWMP Group | Approximate Project Location | Figure Number and Title | ID Number |
| Area 2 – Green Streets | Venice Blvd | Figure E, Marina del Rey Watershed Management Group | 2 |
| North Santa Monica Bay Coastal Watersheds | | | |
| Trancas – Infiltration | 33332 Pacific Coast Highway Malibu, CA 90265 | Figure F, North Santa Monica Bay Coastal Watersheds | 1 |
| Zuma 1, 2, 3 – Infiltration | Encinal Canyon Rd | Figure F, North Santa Monica Bay Coastal Watersheds | 2 |
| Malibu Legacy Park Pump Station Improvements – Treatment Plant Pump Upgrades | Cross Creek Rd and PCH | Figure F, North Santa Monica Bay Coastal Watersheds | 3 |
| Paradise Cove 1 – Infiltration | Paradise Cove Rd and PCH | Figure F, North Santa Monica Bay Coastal Watersheds | 4 |
| J1/4 Topanga –1,3 – Infiltration | East of Topanga Canyon RD | Figure F, North Santa Monica Bay Coastal Watersheds | 5 |
| J1/4 Topanga –2 – Infiltration | East of Summit Trail | Figure F, North Santa Monica Bay Coastal Watersheds | 6 |
| J1/4 Topanga –4 – Infiltration | North of Topanga School Rd | Figure F, North Santa Monica Bay Coastal Watersheds | 7 |
| J1/4 Topanga –5 – Infiltration | East of Topanga Canyon RD | Figure F, North Santa Monica Bay Coastal Watersheds | 8 |
| J1/4 Topanga –6 – Infiltration | West of Topanga Canyon Rd | Figure F, North Santa Monica Bay Coastal Watersheds | 9 |
| J1/4 Topanga –7 – Infiltration | East of Summit Trail | Figure F, North Santa Monica Bay Coastal Watersheds | 10 |
| J1/4 Topanga –8 – Infiltration | East of Valley Drive | Figure F, North Santa Monica Bay Coastal Watersheds | 11 |
| J1/4 Topanga –9 – Infiltration | East of Topanga Canyon RD | Figure F, North Santa Monica Bay Coastal Watersheds | 12 |
| J1/4 Topanga –10 – Infiltration | Between Topanga Canyon Rd and Fernwood Pacific Drive | Figure F, North Santa Monica Bay Coastal Watersheds | 13 |
| Palos Verdes Peninsula EWMP Agencies | | | |
| Chandler Quarry Project – Infiltration | Club View Lane | Figure G, Palos Verdes Peninsula Watershed Management Group | 1 |
| Casaba Estates (Butcher Ranch) – Bioretention | Palos Verdes Drive | Figure G, Palos Verdes Peninsula Watershed Management Group | 2 |
| Rio Hondo/San Gabriel River Water Quality Group | | | |
| Recreation Park | Lemon Avenue and Mountain Avenue | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 1 |
| Sierra Vista Park | Sierra Madre Boulevard and Rancho Road | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 2 |

| Priority Projects | | | |
|--|--|--|------------------|
| EWMP Group | Approximate Project Location | Figure Number and Title | ID Number |
| Arboretum of Los Angeles County | Baldwin Avenue and Colorado Street | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 3 |
| Santa Anita Golf Course | Huntington Drive and Santa Anita Avenue | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 4 |
| Royal Oaks Trail (LAR) | Los Angeles River | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 5 |
| L. Garcia Park | Olive Avenue and Mayflower Avenue | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 6 |
| Peck Road Park Lake | Peck Road and Rio Hondo Parkway | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 7 |
| LADWP Easement | From Irwindale to Lake Ellen south of Arrow Hwy | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 8 |
| Encanto Park | Encanto Pkwy, Duarte, CA 91010 | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 9 |
| Memorial Park (Azusa) | 3rd Street and N Orange Ave | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 10 |
| Royal Oaks Trail (SGR) | San Gabriel River | Figure H, Rio Hondo/San Gabriel River Watershed Management Group | 11 |
| Santa Monica Bay Watershed, Jurisdictions 2 & 3 | | | |
| Brentwood Golf Course | 590 South Burlingame Avenue Los Angeles, CA 90049 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 1 |
| Riviera Country Club | 1250 Capri Drive Pacific Palisades, CA 90272 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 2 |
| Rustic Canyon Recreation Center | Latimer Rd Santa Monica, CA 90402 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 3 |
| Oakwood Park | 767 California St Venice, CA 90291 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 4 |
| Santa Monica Civic Auditorium and Courthouse | 1725 Main St Santa Monica, CA 90401-3274 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 5 |
| Memorial Park | 1401 Olympic Boulevard Santa Monica, CA 90404 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 6 |

| Priority Projects | | | |
|--|---|--|------------------|
| EWMP Group | Approximate Project Location | Figure Number and Title | ID Number |
| LADWP easement for potential Northwest Infiltration basins | South of Imperial Hwy | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 7 |
| Recreation Park | 401 Sheldon Street El Segundo, CA 90245 | Figure I, Santa Monica Bay Watershed Jurisdictions 2 and 3 Watershed Management Groups | 8 |
| Upper Los Angeles River Watershed | | | |
| North Holly Park Project | 11430 Chandler Boulevard North Hollywood, CA 91601 | Figure J, Upper Los Angeles River Watershed Management Group | 1 |
| Alhambra Golf Course | 630 South Almansor Street Alhambra, CA 91801 | Figure J, Upper Los Angeles River Watershed Management Group | 2 |
| Fremont Park | 600 Hahn Avenue Glendale, CA 91203 | Figure J, Upper Los Angeles River Watershed Management Group | 3 |
| Roosevelt Park | 7600 Graham Avenue Los Angeles, CA 90001 | Figure J, Upper Los Angeles River Watershed Management Group | 4 |
| Sierra Vista Park | 311 North Rural Drive Monterey Park, CA 91755 | Figure J, Upper Los Angeles River Watershed Management Group | 5 |
| 208 Park Ave | 208 Park Ave, San Fernando, CA 91340 | Figure J, Upper Los Angeles River Watershed Management Group | 6 |
| Lacy Park – Infiltration/Retention Basin | 1485 Virginia Road San Marino, CA 91108 | Figure J, Upper Los Angeles River Watershed Management Group | 7 |
| Lower Arroyo Park | South Pasadena, CA 91030 | Figure J, Upper Los Angeles River Watershed Management Group | 8 |
| Upper San Gabriel River | | | |
| Barnes Park | 3251 Patritti Avenue Baldwin Park, CA 91706 | Figure K, Upper San Gabriel River Watershed Management Groups | 1 |
| Kahler Russell Park | 735 North Glendora Avenue Covina, CA 91724 | Figure K, Upper San Gabriel River Watershed Management Groups | 2 |
| Finkbiner Park | Glendora, CA 91741 | Figure K, Upper San Gabriel River Watershed Management Groups | 3 |
| San Angelo Park | 245 San Angelo Avenue Bassett, CA 91746 | Figure K, Upper San Gabriel River Watershed Management Groups | 4 |
| La Puente Park | 501 Glendora Avenue La Puente, CA 91744 | Figure K, Upper San Gabriel River Watershed Management Groups | 5 |
| Adventure Park | 10130 South Gunn Avenue Whittier, CA 90605 | Figure K, Upper San Gabriel River Watershed Management Groups | 6 |
| Allen J Martin Park | 14830 East Giordano Street La Puente, CA 91744 | Figure K, Upper San Gabriel River Watershed Management Groups | 7 |
| Bassett Park | 510 Vineland Avenue La Puente, CA 91746 | Figure K, Upper San Gabriel River Watershed Management Groups | 8 |
| Upper Santa Clara River Watershed | | | |

| Priority Projects | | | |
|--------------------------|-------------------------------------|--|------------------|
| EWMP Group | Approximate Project Location | Figure Number and Title | ID Number |
| Not yet determined | | Figure L, Upper Santa Clara River Watershed Management Group | |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-----------|------------|--------------------|--|---------|--|
| Dominguez | 7413024920 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024908 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024919 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024911 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024918 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024910 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024921 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024922 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024912 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418035905 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418035904 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7469018903 | Los Angeles | Open Space Public, Developed Lol Parks And Recreation | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418036901 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7413024907 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418035906 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418036905 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418036900 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418036907 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418035907 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418036902 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7418036906 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7469017900 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7350016900 | Los Angeles County | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7469030901 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7469030900 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7440002915 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7440005909 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7560028900 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7561025902 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7561025900 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 7562008901 | Los Angeles | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 6132018900 | Los Angeles | Open Space Public, Developed Lol Parks And Recreation | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4021015901 | Inglewood | Open Space Public, Developed Lol Parks And Recreation | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4010023900 | Inglewood | Open Space Public, Developed Lol Parks And Recreation | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4034005912 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4034005907 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4034005905 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4018021902 | Inglewood | Open Space Public, Developed Lol Parks And Recreation | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032002913 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032001900 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032001908 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032001901 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032003915 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032001905 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032001904 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 4032001902 | Inglewood | Open Space Public, Vant Undifferentiated | | 2-15, Dominguez Channel Watershed Management Group |
| Dominguez | 6057010903 | Los Angeles | Open Space Public, Developed Regional Parks And Recreation | | 2-15, Dominguez Channel Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|--------------------------|-----|------------------------|---------------|---|--|
| Beach Cities Ewmp | | | | | |
| Beach Cities | Na | Hermosa Beach | | 1315 Valley Dr., Hermosa Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Hermosa Beach | | 425 Valley Dr., Hermosa Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Manhattan Beach | | 1998 N Valley Dr., Manhattan Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Manhattan Beach | | Manhattan Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Manhattan Beach | | 1701 N Herrin Ave., Manhattan Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 801 mino Real, Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 2723 Alvord Ln., Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 190 Flagler Ln., Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 1 Sea Hawk Way, Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 309 Esplanade, Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Torrance | | 3141 Torrance Blvd., Torrance | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Herondo And The Strand | | Herondo And The Strand | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Hermosa Beach | | 425 Valley Drive, Hermosa Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Hermosa Beach | | 526 Gould Ave., Hermosa Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | The Strand | | 28Th St And The Strand | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | The Strand | | Strand And 44Th 32Nd St (6 Outfalls) | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | The Strand | | Strand And 2Nd 18Th St (9 Outfalls) | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | The Strand | | Strand And 1St 35Th St (2 Outfalls) | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 801 mino Real, Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Redondo Beach | | 1801 Rockefeller Lane, Redondo Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Torrance | | 1119 Barbara St., Torrance | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Manhattan Beach | | Manhattan Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Manhattan Beach | | 1701 N Herrin Ave., Manhattan Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Manhattan Beach | | 1701 N Herrin Ave., Manhattan Beach | 2-7, Beach Cities Watershed Management Group |
| Beach Cities | Na | Hermosa Beach | | Hermosa Ave From Herondo To 2Nd St, Hermosa | 2-7, Beach Cities Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|------------------------------------|-----|-------------------|---------------------------|-----------------------------------|--|
| Palos Verdes Peninsula Ewmp | | | | | |
| Palos Verdes | Na | | Open Space And Recreation | Peppertree Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Ocean Terrace Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Forrestal Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1805 West 9Th Street | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Kings Harbor Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Palos Verdes Drive East | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 30940 Hawthorne Boulevard | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 7040 Vfa Del Mar | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 32200 Valor Pl | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Indian Peak Road | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 29301 Hawthorne Boulevard | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 717 Vfa La Cuesta | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Malaga nyon Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | nada Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Palos Verdes Drive East | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 4903 Browndeer Ln | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1 Peppertree Dr | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Palos Verdes Drive East | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1700 Westmont Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 4100 Maritime Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Nike Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 2 Park Place | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 28013 Seashell Way | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 6500 Seacove Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 30840 Hawthorne Blvd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 30800 Palos Verdes Drive East | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 28014 S Montereyna Dr | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 28915 Northbay Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 3050030698 Rue De La Pierre | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 2760827660 Flaming Arrow Dr | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 6956 Purple Ridge Dr | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 32623358 Crest Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 1946 W Crestwood St | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Use | 54005598 Diversey Dr | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Government Institution | 30940 Hawthorne Boulevard | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Golf Course/Country Club | 7000 Los Verdes Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 642 Silver Spur Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 5739 Crestridge Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 5837 Crest Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 5741 Crestridge Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 970 Paseo La Cresta | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Del Sol Fire Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1304 Vfa Zumaya | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Batting ge Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 2100 Rosita Pl | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1729 Vfa Arriba | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1525 Vfa Coronel | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Valmonte South Trai | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 15011599 Vfa Martinez | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1536 Vfa Leon | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 113199 Vfa pay | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1822 Paseo Del Sol | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 15001598 Lower Paseo La Cresta | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1274 Vfa Coronel | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Vfa Nivel | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 556558 Paseo Del Mar | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 13011399 Vfa Fernandez | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 4025 Vfa Solano | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Pio Pico Hillside Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 796804 Vfa Del Monte | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1516 Paseo La Cresta | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1408 Chelsea Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | La Selva Path | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Torrance Utility Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 17011799 Lower Paseo La Cresta | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Colusa Path | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Torrance Utility Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Telephone Pole Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 1016 Vfa Ventana | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 2008 Vfa Fernandez | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Torrance Utility Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Torrance Utility Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Torrance Utility Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 2216 Vfa Anapa | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 300 Palos Verdes Dr W | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Upper La Costa Fire Station Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 14011499 Plaza Francisco | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Torrance Utility Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 63 Malaga Cove Plaza | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 14131499 Vfa Andres | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 278288 Palos Verdes Dr W | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Vfa Corta | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 22142216 Thorley Pl | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | 1800 Palos Verdes Dr W | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | 301359 Vfa Almar | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | 520 Paseo Lunado | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | 12011299 Vfa Nogales | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | 3801 Vfa La Selva | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | 600 Cloyden Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Educational Institution | Vfa mpesina | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Other Commercial | 361399 Tejon Pl | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Golf Course/Country Club | 30003298 Paseo Del mpo | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 135 Coronel Plaza | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 23402398 Vfa Alones | 2-9, Palos Verdes Peninsula Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|--------------|-----|-------------------|---------------------------|-------------------------------|--|
| Palos Verdes | Na | | Commercial Use | 14401444 Vφα Coronel | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 26201 Crenshaw Blvd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 2300 Bridle Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 31 Peartree Ln | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 27575 Indian Peak Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Highridge Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 501 Indian Peak Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 2604026474 Hawthorne Blvd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 4700 Palos Verdes Dr N | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 4400 Palos Verdes Dr N | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Highridge Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | Crenshaw Boulevard | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Edutional Use | Phillip'S nyon Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Edutional Use | 27118 Silver Spur Road | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Edutional Use | Summer Morning'S Spur Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Edutional Use | 26944 Rolling Hills Rd | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Edutional Use | Bridle Trail | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Government Institution | 4045 Palos Verdes Dr N | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Golf Course/ | 27000 Palos Verdes Drive East | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Commercial Use | 627 Deep Valley Dr | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Open Space And Recreation | 26300 Crenshaw Boulevard | 2-9, Palos Verdes Peninsula Watershed Management Group |
| Palos Verdes | Na | | Edutional Use | 26800 South Ademy Drive | 2-9, Palos Verdes Peninsula Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|---|-----|-------------------|---------------------------|--|--|
| Rio Hondo/San Gabriel River Ewmp | | | | | |
| Rio Hondo | | | Northside Park/School | 12Th Street And Orange Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Zates Park | 1St Street And Virginia Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Bonita Park | 2Nd Avenue And Bonita Street | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Eisenhower Park | 2Nd Avenue And Haven Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Memorial Park (Azusa) | 3Rd Street And N Orange Ave | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Slauson Park | 5Th Street And Pasadena Ave | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Arboretum Of Lac | Baldwin Avenue And Colorado Street | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | mino Grove Park/School | mino Grove Avenue And 6Th Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Gordon Sports Park/School | Central Avenue And Mt. Olive Drive | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Citrus Community College | Citrus Avenue And Foothill Boulevard | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Utility Easement | From Irwindale To Lake Ellen South Of Arrow Hw | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Gladstone Park | Gladstone Street And Pasadena Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Duarte Park | Huntington Drive And Highland Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Santa Anita Golf Course | Huntington Drive And Santa Anita Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Valleydale Park | Lark Ellen Avenue And Gladstone Street | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Rancho Duarte Golf Course | Las Lomas Road And Hacienda Drive | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Longley Way Elementary | Las Tunas Drive And Longley Way | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Recreation Park | Lemon Avenue And Mountain Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Memorial Park | Mariposa Avenue And Sierra Madre Boulevard | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Pamela Park | Maydee Street And Goodall Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Spreading Grounds | Meridian Street And Tifal Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Bailey nyon Park | Oak Crest Drive And rter Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | L Garcia Park | Olive Avenue And Mayflower Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Library Park | Palm Avenue And Myrtle Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Peck Road Park | Peck Road And Rio Hondo Parkway | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Royal Oaks Park | Royal Oaks Drive And Vineyard Ave | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Highland Oaks Elementary | Santa Anita Avenue And Virginia Drive | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Pioneer Park | Sierra Madre Avenue And Dalton Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Azusa Greens Country Club | Sierra Madre Avenue And Todd Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Sierra Vista Park/School | Sierra Madre Boulevard And Rancho Road | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Foothills Middle School | Symore Avenue And Oakhaven Road | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Ardia Golf Course | Wildflower Road And Mapletree Avenue | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |
| Rio Hondo | | | Royal Oaks Elementary | Royal Oaks Drive And Mt. Olive Drive | 2-13, Rio Hondo/San Gabriel River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------------------------------|------------|--------------------|---------------|---------|--|
| Upper Los Angeles River Ewmp | | | | | |
| Ular | 6086031918 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031910 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6148015903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6148016901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149021930 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149022926 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149028914 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6056010901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8590009903 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5311001900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319026903 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5324003900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5324015900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5377019900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5409012902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5409013914 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5410006900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447001901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447017902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5715005900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5754031901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5754028904 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2360011900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5666016901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5702006902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5814002901 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5814001900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2026004900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2148029901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018905 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2350011908 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2356033900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2627020902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2031008904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2215001912 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2248008901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2248009901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2513008900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2513008901 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2516030905 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2516031902 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2519001903 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2519011900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2520010900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2521016900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2612015900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2612015905 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2613009903 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2521031901 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2521031902 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2521034904 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2522001901 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2522011900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2522004904 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2522006900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2522001902 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2613006900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2613003900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2706001905 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2762038900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2644001900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2644001901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2653006910 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2653007900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2653006900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2653007904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2653006913 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784003905 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784003901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784003907 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2634016901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2634031900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5813017903 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5813017900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5813018900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5813021900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5814004900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5815001900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018909 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018910 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2210018907 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2308012900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2024023900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2024023901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5821020901 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2331024900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2331030900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2341024904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2181015900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|--------|------------|-------------------|---------------|---------|--|
| Ular | 5333035903 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5366026900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5435036900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5381009900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5381036901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5381036902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5381036903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5435039900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5381021900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5381019900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5385010901 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8588026903 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8588026902 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8588026901 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8590010900 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5313012901 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5314026938 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319030904 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319030907 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319030905 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319029901 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5387007903 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5442029900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5311002901 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5467008901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5336017900 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5346005901 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5346005902 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5387034901 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5387034900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445006901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5361002903 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5362012900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5362018900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5367027900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5373020901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5373022901 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5373026900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8590030901 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8590031910 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5388024902 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5388024905 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5388024903 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8592018903 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5343001906 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5343001907 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5343026901 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5343026902 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5356009900 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5291008900 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5223028907 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5357005900 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5372019900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360010901 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360010902 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360018900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5211021900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5370006901 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5370005900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447005900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447017901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360032900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360029902 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447027901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447020901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447027906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447027908 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447026900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5447027907 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5288002900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5409012903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5409023934 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5224034900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5283020908 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5283032903 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 8117006900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6021016900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6021016901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6024001902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6025032917 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6047015901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6028005901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6028030904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6028031900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6028031903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6028031901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6044008905 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6044008904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6026030902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6026026900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6026024913 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6026025902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6044021906 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6045019905 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6045019902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|--------|------------|-------------------|---------------|---------|--|
| Ular | 6060011904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6060009909 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6060013900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6076003901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6076001902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6076003904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6070006900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149014907 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149014903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149014904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149014909 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149014900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149028900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6149028902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6150014900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6152002901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086022904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031914 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031909 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031911 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031915 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031907 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031917 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086031908 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086037901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086037903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6086037907 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
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| Ular | 6086037900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6134033900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6180017922 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6180015903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 7306019901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 7306019902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2124018906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2770013901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2516028902 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2516030908 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
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| Ular | 2519026901 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2613008900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6021008901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5223030924 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5332025900 | San Marino | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5347029907 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5347031903 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5347028905 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360002900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360012901 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5361002902 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5361002904 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5364024903 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5370016902 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5372012900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5376012901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5387032924 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5387030917 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5389001903 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5389001904 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5389001901 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5389001902 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5390001900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5390002900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5435038902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5435039903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5442031901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5442031902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5457001901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5457001902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5637006900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5675013901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5675028900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5696008928 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5189010922 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5189010924 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5225019916 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5233027921 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5233026931 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5234008900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5234015904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5234015905 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5237023907 | Monterey Park | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5238009900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5238008905 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5287013901 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5287014900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5287022900 | Rosemead | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5171025901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5171025902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2460032902 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2538015900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5607010900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5607012901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5615014902 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|--------|------------|--------------------|---------------|---------|--|
| Ular | 5622015900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5628016900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5628027900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5635006900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5635020900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5636006900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5636016901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5644013902 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5644013914 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5646025900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5650004907 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5650004905 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5650036901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2681011902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5293013901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6343022901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6344023902 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6344014900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346027901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6348010900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6349019905 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6351020900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6353001900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2485027900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5434039901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593018903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2353001904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2407015900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2449031903 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2449035904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451009902 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451011906 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451009903 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451010903 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2634006902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2547006900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2555023901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2555032901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2555023902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2557024900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2557024909 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2557027909 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2559017900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5601017903 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5602009901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5602010901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5602011901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5603003901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5603011900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5606006900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5606016900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5606017900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5801010901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5801016904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803023900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5866017902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5870013901 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5749018900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5750003902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5752006901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5759020900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5759019900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5823022900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5823031900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825020904 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825020906 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825020905 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5828021901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829006905 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829006904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013909 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013931 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013925 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013924 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835013904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5842020902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5843008901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5849025901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5849025900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5857035901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451005901 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451006904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319027906 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5493038900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5467011901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5723026900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5723026902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593030903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593012909 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593018907 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2459008900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2459007901 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2459007900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2459008901 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |

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|--------|------------|--------------------|---------------|---------|--|
| Ular | 2459006900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2469001902 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013908 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5830013910 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2525018901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2525016901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2525019900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2525023902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2526023918 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2681010910 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2706001907 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2706001906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2555032900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2557023901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5601026901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5606012900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5866005900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5602002900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5603014900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5806019900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5864004900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5602009900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5610024901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5611015901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803011900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803011901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803027900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803026900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5804015909 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5804015911 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5804015912 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5804013901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5804014901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803008900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5803020901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5866026900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5866030901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5866031900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5864003900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5816014913 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2634004913 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5812007900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5812013903 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5812013902 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5864020900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5611010900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5810012902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5870012901 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5870023902 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5864026902 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2314001900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2314005900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2314005903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2409004901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5613006900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5613007900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5613008900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5615001901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5615001900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5807024900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5810023900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5801006902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5816005900 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5617015900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2462008900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2463009900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5819005902 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5819006902 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5842020900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5842020901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829005903 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829005902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5616003900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5832017900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835012908 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835012901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835012904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835012900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835012906 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5835012907 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5842021900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5842021901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5828009903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829006902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829006901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829006903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5829006900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451010904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451010905 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5843015900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5828021903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5840010900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5840009901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5841032900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451015900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |

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| Ular | 2414005902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2415013900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5730030903 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5730030900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5730029903 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5848030900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451006903 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2453023901 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2453023902 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2453023900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2449035902 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2449035907 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2451007904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2462017905 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2462017904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825020908 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825020900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825020902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5827013904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2476013900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2480009900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2483006901 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2480009901 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5627003903 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5627006900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5627003902 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
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| Ular | 5751020904 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5751019900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5623010900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5623020900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5728011900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5728018910 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5728021910 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825007900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5825007901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2446007900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2445027903 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2447019900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2447012904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5650004900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5653019900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2068005900 | labasas | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2068005901 | labasas | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2068002900 | labasas | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2069007906 | labasas | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5758001901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5759002900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5759006913 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5860032900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5636007901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5737014901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5749020901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5853015901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5853015900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5759031900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5740020900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5633021900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5635006902 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5650036900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5726015900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5722010913 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593001902 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593001906 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2443009900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5757002901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5752005900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5636012905 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5644013935 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5752002901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5644018927 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5750003905 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5752015903 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2443025904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2443025906 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2443025900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5696010901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5696008929 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5643020906 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5643019900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5721026900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2485029900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5593018900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2069006903 | labasas | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5324003902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5324003901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2424043901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2424043900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5676024900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5676024901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5676024904 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5679001900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5640035901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5594016900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5594016903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |

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| Ular | 5268010901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5294013900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5294014903 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6344001906 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6345011900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346006900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6351024900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6351033902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6351033903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6351035901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6337034900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6337034901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6349023900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350017906 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350016904 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350027900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350026900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6351004900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6344017900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346028912 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6349007915 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6349007910 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6349005900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350006901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350011900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6350018904 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008005902 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346022901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346023900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346022900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346023901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6346025907 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6348003901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6348003900 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6352006901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6352005902 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6352027902 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008015903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008015908 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008013906 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008014900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008014905 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008015904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008013924 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008015928 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008014901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008016900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6008014903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6010017901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6010023900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6010023901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6010017903 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6010021900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6010026923 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6354026901 | Montebello | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2031008906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2031008903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2031008905 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5864001901 | La nada Flintridge | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2519018900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2519019900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2519017900 | San Fernando | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5607017901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2308010902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2028027900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5823003912 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5823003909 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5653001902 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2455040900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5844022900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5731002901 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5653016901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5827007901 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2447010900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5652003900 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5749020900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5719004915 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5719004900 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5719004914 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5719004902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5734037902 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5723013907 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319017900 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5435038904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319030903 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319030900 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5319030906 | South Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445004902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445031905 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445031902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445031901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445031903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445031904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445004906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445031906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|--------|------------|-------------------|---------------|---------|--|
| Ular | 5352028902 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5352028901 | Alhambra | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5409017906 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5409017905 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5226031908 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5171024904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5171025900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6201017904 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6024022900 | La County | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6071021916 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6071021915 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 6071021914 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2444015900 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5171015900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5723017911 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5723017915 | Pasadena | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2443025902 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5435037904 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5172013900 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5387011901 | Temple City | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5623020901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360011900 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784001901 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784001902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784002903 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2784002902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2468020904 | Burbank | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5652005901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5652004901 | Glendale | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5360021901 | San Gabriel | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5171015902 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 2634006908 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |
| Ular | 5445006909 | Los Angeles | | | 2-14, Upper Los Angeles River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------------------------------|--|-------------------|--|---------|---|
| Upper San Gabriel River Ewmp | | | | | |
| San Gabriel | 8558023905, 8558023910 | County | Old Bassett Unified School District Site | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8125014039, 8125014807, 8125014901, 8125016017, 8125016018, 8125016019, 8125016020, 8125016021, 8125016022, 8125016023, 8125016024, 8125016025, 8125016027, 8125016800 | Industry | Client Specified Industry No. 1 | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8115001270, 8115001800, 8115001801, 8115001908, 8115001909, 8115002270, 8115002800, 8115002801, 8115002902, 8115002904, 8115002905, 8115002906, 8115002907, 8115002908, 8115002909 | County | Client Specified Industry No. 2 | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8554005900 | Baldwin Park | Hilda L. Solis Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8544021900, 8544021901, 8544021902, 8544021903, 8544021904, 8544021905, 8544021907, 8544021908, 8544021909, 8544021910, 8544021911, 8544022902 | Baldwin Park | Morgan Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8558022801, 8560028801, 8560028904 | County | Shyer Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8564014907, 8564014908, 8564016909, 8564016912, 8564016913 | Baldwin Park | Walnut Creek Nature Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8550001904, 8550001906 | Baldwin Park | Barnes Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8156001910, 8156001911 | County | Adventure Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8633002900 | Glendora | Stanton Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8628001905 | Glendora | Citrus Community College | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8632001900 | Glendora | Sierra High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8635009901 | Glendora | La Fetra Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8638009906 | Glendora | Finkbinder Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8640006901 | Glendora | Whitcomb Continuation High | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8649020901 | Glendora | Williams Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8648018906 | Glendora | Cullen Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8653023902 | Glendora | Willow Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8660017901 | Glendora | Glendora High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8726001900 | County | Rorimer (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8110029907 | County | High Voltage Electrification Easement Near San Angelo Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8742010901 | County | Valinda Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8745014900 | County | Wing Lane Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8760023909 | Industry | Ron Hockwalt High School (Rhhs) | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8210021901 | La Puente | Nelson Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8214024900 | La Puente | La Puente High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8214025900 | La Puente | La Puente Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8212011901 | County | Temple Ademy Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8212020901 | County | Sparks Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8212011902 | County | Allen J Martin Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8206014904 | County | Avodo Heights Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8218009901 | County | Truck Loading Dock | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8242004900 | County | Glenelder Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8245004906 | Industry | Commercial Buildings | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8248015900 | County | Grandview Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8248015901 | County | Ringrove Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8251003900 | La Puente | Del Valle Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8252013900 | La Puente | Fairgrove Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8263030900 | La Puente | Hurley (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8641002273, 8641002904 | Glendora | Dawson Avenue Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8428016907 | County | Western Christian High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8406001902 | Covina | Fairvalley High (Continuation) School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8403013900 | County | Charter Oak Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8403013901 | County | Charter Oak Park (Cousd Parcel) | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8405008900 | County | Ben Lomond Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8407001905 | Covina | Hollenbeck Park | | 2-12, Upper San Gabriel River Watershed Management Groups |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------|---|-------------------|---|---------|---|
| San Gabriel | 8408021900 | Covina | Valencia Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8409019906 | Covina | Gladstone High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8420013901 | Covina | Northview High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8421015900 | County | Cypress Ball Park And Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8420013902 | Covina | Northview High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8419031905 | County | Lark Ellen Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8426012902 | Covina | Badillo Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8110001901 | County | Vant Lot Near Sgr | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8550001907 | Baldwin Park | Twin Lakes Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8435016901 | County | Manzanita Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8435006900 | County | Partially Vant Lot Near Irwindale Shopping Center | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8438004900 | Baldwin Park | Central Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8438001904, 8459001900 | Baldwin Park | Baldwin Park High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8446007903 | Covina | Sierra Vista Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8451008900 | Covina | Barran Park, Barran Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8472022901 | County | Partially Vant Lot Near lifornia Elementary | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8535011901 | Baldwin Park | Site At Top Of Baldwin Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8552011902 | Baldwin Park | Sierra Vista High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8554018900 | Baldwin Park | Vineland Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8555012902 | Baldwin Park | Jones (Charles D) Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8555017900 | Baldwin Park | Foster Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8561020900 | Industry | Torch Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8556009900 | Baldwin Park | Elwin Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8560008900 | County | Van Wig (J E) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8564004902, 8564004903 | Baldwin Park | Buildings And Parking Lot Near Channel | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8565024902 | Industry | Madrid (Alfred S) Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8550019901 | Baldwin Park | De Anza Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8648001927 | Glendora | George Manooshian Park And Goddard Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8535011904 | Baldwin Park | Olive Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8725005906 | County | Nogales High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8110029002, 8110029903 | County | Vant Lot Near Channel | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8564004901 | Baldwin Park | Truck Loading/Parking | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8404010900 | County | Cedargrove Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8656005909 | Glendora | Sellers Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8628001902 | Glendora | Citrus Community College (Buildings) | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8638027908 | Glendora | Glendora Civic Center | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8562010901 | County | Bassett Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8253014900 | County | rolyn Rosas Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8431026001, 8431026900, 8431026901 | Covina | Covina Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8431012900, 8431012901 | Covina | Edna Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8265019900 | County | Gloria Heer Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8428015902, 8428015903, 8428023901 | Covina | Kahler Russell Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8430015900, 8430035900 | Covina | Kelby Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8211003901 | County | Los Robles County Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8215012900 | County | Manzanita Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8648018908 | Glendora | Ole Hammer Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8447031901 | Covina | Parque Kalapa | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8207014900 | County | Pepperbrook Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8762004902 | County | Rowland Heights Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8110012903, 8110012904, 8110012905 | County | San Angelo Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8244005915 | County | Stimson Park (Steinmetz Park) | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8656005910 | Glendora | Willow Springs Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8430026900 | Covina | Civic Center Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8653002902, 8653002905, 8653002906 | Glendora | Gladstone Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8407001909 | Covina | Hollenbeck Park (Fcd Parcel) | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8727014902, 8727014903, 8727014904, 8727014905, 8727014906, 8727014907, 8727014908, 8727014909, 8727014910, 8727014911, 8727014912, 8727014913 | County | Sunshine Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8635003901, 8635005901, 8635005902 | Glendora | Sandburg School Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8760002900 | County | Santana High (Continuation) School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8403013901 | County | Unknown School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8465013900, 8465013901 | County | Edgewood Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8272001900 | County | Alvarado Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8543015900 | Baldwin Park | Holland (Jerry D) Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8542001900 | Baldwin Park | Walnut Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8429017900, 8429018900 | Covina | Covina Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8402010939 | Covina | Glen Oak Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8761001900 | County | Jellick Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8546025900 | Baldwin Park | Bursch (Charles) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |

Appendix G
EWMP Proposed BMP and Priority Project Data

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------|--|-------------------|---------------------------------------|---------|---|
| San Gabriel | 8415007900, 8415014902, 8415022900 | Baldwin Park | Geddes (Ernest R) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8443013900, 8443014900, 8443014901 | Covina | Covina High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8551021906, 8551021909 | Baldwin Park | Tracy Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8641006900, 8641006901, 8641006902 | Glendora | Washington Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8552012901 | Baldwin Park | Kenmore Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8727004900 | County | La Seda Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8536025902 | Baldwin Park | Heath (Margaret) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8428016908, 8428016907 | County | Royal Oak Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8434010901 | Covina | Las Palmas Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8635004901 | Glendora | Sandburg Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8414018900 | Baldwin Park | Pleasant View Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8403005901 | Covina | Charter Oak High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8206005900 | County | Don Julian Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8115010900 | County | Andrews (Wallen) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8728015900 | County | Villacorta (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8035007900 | County | Meadow Green Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8464032900 | County | Sunkist Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8465027900, 8465027901 | County | Erwin (Thomas M) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8270023902 | County | Rowland (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8178003900 | County | Nelson (Ada S) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8201010900 | La Puente | Bassett Senior High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8272020901, 8272020902 | County | Killian Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8125027907 | County | Mill Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8253014901 | County | Farjardo (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8203008900 | La Puente | Sunset Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8203015902 | La Puente | Lassalette Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8254008901, 8254008902 | County | Baldwin Ademy Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8472018900 | County | lifornia Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8250001912 | Industry | Workman (William) High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8251013904, 8251010900 | La Puente | Sierra Vista Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8727010900 | County | Yorbita (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8209001901 | County | Wedgeworth Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8207004901 | County | Wilson (Glen A) High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8243036900 | County | Cedarlane Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8207004900 | County | Bixby Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8290016900 | County | Los Molinos Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8222022901 | County | Los Altos Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8215022900, 8215022901 | County | Newton Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8211003902 | County | Los Robles Ademy Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8215001900 | County | Los Altos High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8218013901, 8218014907 | County | Shadybend Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8220009900 | County | Paln Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8247011906, 8247011907 | La Puente | Workman Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8444010900 | Covina | TriCommunity Adult School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8641007900, 8641007901, 8641007902, 8641007903, 8641007904, 8641007905, 8641007906, 8641007907, 8641007908, 8641007909, 8641007910, 8641007911, 8641007912, 8641007913, 8641007917, 8641007918, 8641007919, 8641007920, 8641007921 | Glendora | Glenoaks Golf Course | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8554001900, 8554001910 | Baldwin Park | Baldwin Park City Hall | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8208025910 | Industry | Industry City Hall | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8246016903 | La Puente | La Puente City Hall | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8206003900, 8206003901, 8206004900 | County | Avenue Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8120019905 | County | San Jose Creek Overlook | | 2-12, Upper San Gabriel River Watershed Management Groups |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------|---|-------------------|---|-------------|---|
| San Gabriel | 8535020800, 8535020801, 8535020902, 8535020909, 8535021001, 8546001800, 8550001800, 8550001801, 8550001803, 8564012801 | Baldwin Park | Scs Utility Electric Tower | Brownfields | |
| San Gabriel | 8550003270, 8550003271, 8550003273, 8551011270, 8551011271, 8556009272, 8564002270, 8564019272 | Baldwin Park | Ladwp Utility Electric Corridor | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8653003904 | Glendora | Arrow High (Continuation) | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8445001913 | Covina | Covina City Hall | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8444021903, 1904 | Covina | CovinaValley Unified School District Sports Complex | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8026005900 | County | Amelia Mayberry Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8269040900, 8269040901 | County | Bill Blevins Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8295021900, 8295021901 | County | Countrywood Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8642017901, 8642018900, 8642018907, 8642018908 | Glendora | Louie Pompei Memorial Sports Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8171028900 | County | Mcnees Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8171015901 | County | Sorensen Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8205007900 | County | Thomas S Burton Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8241020235, 8241021170, 8241025105 | County | Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8031012903 | County | Los Altos Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8269003901, 8269003902 | County | Pathfinder Community Regional Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8119010905, 8119010906 | County | Pico Rivera Municipal Golf Course | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8241001021, 8241001024 | County | Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8206034017 | County | Park | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8036016001, 8036016002 | County | Southern Ilifornia University Of Health Sciences | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8125026800, 8125026802, 8125026902, 8125026903 | County | Rio Hondo Community College | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8762020030 | County | Wisdom Kids College | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8152020042 | County | Painter Avenue Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8156020022 | County | Walker Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8453019014 | Covina | Sacred Heart Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8432027005 | Covina | Western Christian Isp | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8226011033 | County | pella Christian Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8661020017 | County | Foothill Montessori | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8130028067 | County | Solid Faith Christian School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8428020017 | Covina | Amerin Future Learning Center | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8032014900 | County | El mino High (Continuation) School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8155018047, 8155018048, 8155019014 | County | St. Gregory The Great | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8159003017 | County | East Whittier Center | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8031011017 | County | Children'S Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8762018902, 8762018903 | County | Ybarra Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8428013901 | Covina | Sonrise Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8427003901 | Covina | Sonrise Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8402001001, 8402001002, 8402001022, 8402001023 | Covina | St. Louise De Marillac Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8404002029 | County | Cumorah Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8764001131, 8764001132 | County | Southlands Christian Schools | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8276009900 | County | Rowland High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8159005901 | County | Mulberry Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8177019902, 8177019904, 8177019905 | County | Pioneer High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8169008900, 8169008901, 8169008902, 8169020030, 8169020031, 8169020032, 8169020033, 8169020034, 8169020901, 8169020902, 8169020903, 8169020904 | County | Aeolian Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8227004900 | County | La Colima Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------|---|-------------------|--|---------|---|
| San Gabriel | 8028005900 | County | Loma Vista Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8174021900 | County | West Whittier Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8728010900, 8728010901 | County | Northam (Remote) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8031012903, 8031012904, 8031013900 | County | Los Altos/Monte Vista Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8030008901, 8030008902 | County | Telechtron Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8176028900 | County | Phelan Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8171015900 | County | Sorensen (Christian) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8258009900 | County | Blandford Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8178023900, 8178025901, 8178025902 | County | Los Nietos Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8156028029, 8156028920 | County | Mckibben (Howard J) Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8036009900 | County | Whittier Christian School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8040012900 | County | Granada Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8174032901 | County | Edwards (Katherine) Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8155008900, 8155008901 | County | Ceres Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8276002906 | County | Shelyn Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8039014900 | County | rden School Of Whittier | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8173022900 | County | Washington Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8151027905 | County | ifornia High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8036023900 | County | RanchoStarbuck Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8465012011, 8465012013 | County | Bishop Amat Memorial High | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8730004006, 8730004032 | County | St. Martha'S Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8205014900 | County | Mesa Robles Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8204022900 | County | Grazide Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8215018002, 8215018022, 8215018023, 8215018026, 8215018027, 8215018028 | County | St. Mark'S Lutheran Elementary | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8211013900 | County | Orange Grove Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8215012901 | County | Kwis Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8178005001, 8178005021, 8178005025, 8178005027 | County | Brethren Christian School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8684033036 | Glendora | St. Lucy'S Priory High School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8555011011 | Baldwin Park | East Valley Adventist | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8666008010 | County | Leroy Boys Home Secondary | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8205023024 | County | Um Molokan Elementary | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8228022900, 8228022901 | County | Hillview Middle School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8170012023 | County | Palm View Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8214016020 | La Puente | New Montessori School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8201009001 | La Puente | St. Louis Of France | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8120005032 | County | Creative Corners | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8640012061 | Glendora | Foothill Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8272001046 | County | Oxford School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8404004054 | County | Gateway Montessori And Preschool | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8453006036 | Covina | Acia Montessori | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8762010011 | County | Fairway Edution Center | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8631010017 | Glendora | Live Oak nyon | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8226001002 | County | Kids And Blocks Preschool & Kindergarten | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8222003050 | County | Morning Star Christian School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8218016037 | County | Hacienda Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8210001028 | La Puente | Sunset Christian | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8156027021, 8156027022 | County | All Nations Ademy Of Excellence | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8152001012 | County | Faith Lutheran Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8649014043 | Glendora | Hope Lutheran Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8031013018 | County | Le Lycee Franis De Downey | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8268014044 | County | Ivary | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 7016015120 | County | First Evangellil Church Of Cerritos Children | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8401021062 | County | Beginning Montessori Children'S House | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8401036038 | County | Covina Baptist Ademy | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8655024039 | Glendora | St. Dorothy Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8543009053 | Baldwin Park | Creative Planet School Of The Arts | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8251016044 | La Puente | St. Joseph Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8553007029 | Baldwin Park | St. John The Baptist | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8258019036 | County | Rowland Christian Preschool | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8658002033, 8658006015 | Glendora | Bluebird Preserve | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8125012910, 8125062003, 8125062904 | County | Whittier Narrows Equestrian Center | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8552017019 | Baldwin Park | Mid Valley Learning Centers | | 2-12, Upper San Gabriel River Watershed Management Groups |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title | |
|-------------|--|-------------------|---|---------|---|--|
| San Gabriel | 8247013904, 8247014900, 8262001010, 8262001011, 8262001900, 8262001902, 8262011011, 8262011930, 8262011931, 8262012028, 8262012270, 8262012271, 8262012272, 8262012273, 8262012274, 8262012275, 8262012276, 8262015900, 8262015902, 8262015904, 8262015905, 82 | Industry | Industry Hills Golf Club | | | |
| San Gabriel | 8115001904, 8115001906 | County | San Jose Creek Water Reclamation Plant West | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8125021933, 8125026026, 8125026027, 8125026028 | County | Puente Hills Materials Recovery Facility | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8710002902, 8710002903, 8710003907, 8710003916 | County | California Polytechnic University Pomona | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8265028900 | County | Trailview Park | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8265002904, 8265002906, 8265002908, 8265003904, 8295019900, 8295019901, 8295019903 | County | Peter F Schabarum Regional County Park | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8426026016, 8426026018 | County | Via Verde Country Club | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8119010905, 8119010906 | County | Streamland Park | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8391015025, 8391015027 | County | Ivory Baptist Church And Schools | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8226020905 | County | Orchard Dale Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8026006900 | County | Armela Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8167029907, 8167029908 | County | Lake Marie Elementary School | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8636047021, 8636047022 | County | Brodiaea Reserve | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8636013005, 8636013006, 8636013012, 8636016009 | Glendora | Brodiaea Reserve | | 2-12, Upper San Gabriel River Watershed Management Groups | |
| San Gabriel | 8658002019, 8658017030, 8658017031, 8658017032, 8658017033, 8658017034, 8658017035, 8658017036, 8658017037, 8658017038, 8658017039, 8658017040, 8658017041, 8658017050, 8658017054, 8658017063, 8658018032, 8658018033, 8658018034, 8658018035, 8658018036, 86 | Glendora | Gordon Mull Preserve | | 2-12, Upper San Gabriel River Watershed Management Groups | |

Appendix G
EWMP Proposed BMP and Priority Project Data

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------|--|-------------------|-------------------------------------|---------|---|
| San Gabriel | 8644010056, 8644010902, 8644013905, 8644013906, 8644013907, 8644014271, 8644014273, 8644014901, 8644014902, 8644014904, 8644014905, 8644014907, 8644014909, 8644014910, 8644014911, 8644015911, 8644015914, 8644015915, 8644027270, 8644027901, 8644027902, 86 | Glendora | South Hills Park | | |
| San Gabriel | 8764002007, 8764002008 | County | Los Angeles Royal Vista Golf Course | | 2-12, Upper San Gabriel River Watershed Management Groups |
| San Gabriel | 8762022002, 8762022005, 8762022006, 8762022008, 8762023001, 8762023002 | County | Los Angeles Royal Vista Golf Course | | 2-12, Upper San Gabriel River Watershed Management Groups |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|-------------------|-------------|----------------------------------|---------------|---------|--|
| Upper Santa Clara | 2810110900 | | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2864003919 | L A County | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 3270020902 | L A County | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2831006901 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2831006903 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2831006902 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2810109900 | L A Co Flood Control Dist | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2826085900 | Newhall School District | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2864003921 | L A County | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2864003922 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 32440035900 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2833005902 | L A County | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2836018901 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2865012912 | L A County | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2810001903 | Hart William S Union High School | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2866005806 | | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2861009904 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2811062904 | Santa Clarita City | | | 2-16, Upper Santa Clara River Watershed Management Group |
| Upper Santa Clara | 2859002901 | L A Co Flood Control Dist S By S | | | 2-16, Upper Santa Clara River Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|---------|------------|-------------------|---------------|---------|---|
| Ballona | 5545017907 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5545019914 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5545017902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5545017904 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5545019915 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5545017900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5546009906 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547003908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547015900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547015904 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547016908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547003907 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547015901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547015908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547030900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547009900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547015903 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547015905 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5547016907 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5548014900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5550013900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5550025902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5550025903 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5559003901 | West Hollywood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5559003900 | West Hollywood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5401015900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5426017900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5429025900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5429025901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5430029901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5537009910 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539005900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539005903 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539002900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539023900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539025900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539024902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539024901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5539025902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5540003900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5542027909 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5542028900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5544027903 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5589028900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5590020900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5591022900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5591022901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5122003900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5122003902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5122004900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5122014907 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5122017908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5126001900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5126018917 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5126018916 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5127002908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5127012904 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5127029900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5128016904 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5128016910 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5134007921 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5134022903 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5134022902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4212001900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4134020903 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4208023902 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4206026906 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4210026903 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4255009901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4255006900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4301018900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4213026903 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4254023900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4314016901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4308019900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4205035900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5048013901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5048012900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4249002900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4249026900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4249001901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4217011903 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4249025900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4213026900 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4212007900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4102015900 | Inglewood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5047014900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4259020900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4001013900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4001014901 | Inglewood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4013028900 | Inglewood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4013025900 | Inglewood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4014017900 | Inglewood | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4235020901 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4204013900 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |

| Region | Apn | Jurisdiction/City | Land Use Type | Address | Figure Number and Title |
|---------|------------|-------------------|---------------|---------|---|
| Ballona | 4205012903 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4206030902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5047014901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5047014902 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5048017901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5065015906 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5048008901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5048014901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5048017900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4311031901 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4211011900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4218003900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4221024908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4210017900 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4221008900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4217029903 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4220015900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4221006900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4221024907 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4218002907 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4203011902 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4210026902 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4019019900 | La County | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4221024900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4221024909 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4216013900 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4210015902 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4210016900 | Culver City | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5142026915 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5142026921 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4220012900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 6001013906 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 6001001900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5123008905 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4206034906 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5046013905 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5066013900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4211022900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4211013900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4006011900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 4235021900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5124001900 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |
| Ballona | 5032004908 | Los Angeles | | | 2-6, Ballona Creek Watershed Management Group |