

Project # 8 Monitoring Program for JWPCP Marshland Enhancement Project

City of Carson and Sanitation Districts of Los Angeles
NA

Patricia Elkins
310-847-3529
pelkins@carson.ca.us

NA

Partnering Agency:

<u>Project Description</u>																										
Develop and implement project assessment and evaluation plan and monitoring plan in accordance with SWRCB guidance and AWQGP guidelines to assess water quality benefits and pollutant load reductions achieved by 17 acre wetland restoration and enhancement project that will function as an offline wetland treatment system for 2.16 million gallons per day of water from the Wilmington Drain. (The marsh construction program is fully funded but no funds are currently provided for monitoring and assessment.)																										
<u>Project Integration</u> Dominguez Watershed Master Plan	NA	<u>Project Need</u>																								
<u>Cooperating Agencies</u> Sanitation Districts of Los NA NA NA NA	<u>Location Description</u> The marshland enhancement project is located on the northeast corner of the Joint Water Pollution Control Plant adjacent to the Wilmington Drain that is tributary to Machado Lake.	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 100000 Upper Estimated Total Capital Cost (\$): 100000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																								
<u>Associated Watersheds</u> DCW NA NA	<u>Project Source(s)</u> Dominguez Watershed Masterplan Dominguez Watershed Masterplan Machado Lake Watershed Management Plan Machado Lake TMDLs (in development)	<u>Sub-region(s)</u> SO_BAY NA NA																								
<u>Is part of larger program?</u> TRUE																										
<u>Readiness to Proceed</u>																										
<div style="border: 1px solid black; padding: 5px;"> The project could be ready to proceed within six months. That time is needed to develop and obtain approval of a SWAMP-Compatible Project Assessment and Evaluation Plan, Monitoring Plan and Quality Assurance Plan. The marshland project has already been constructed and is operational--the purpose of this project would be to evaluate its effectiveness in improving water quality of channelized urban streams </div>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>IN_PROC</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>	<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	IN_PROC	1/1/2001 0:00	Land Acquisition	NA	1/1/1753 12:00:	Preliminary Plans	NA	1/1/1753 12:00:	CEQA/NEPA	NA	1/1/1753 12:00:	Permits	NA	1/1/1753 12:00:	Construction Drawings	NA	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
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Funding	NOT_INIT	1/1/1753 12:00:																								
Proposed Start Date: 1/1/2006 Proposed Completion Date: 1/1/2007 Ready For Construction Bid: N/A																										
<u>Water Quality Objectives</u>	<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other: Assessment and Monitoring	Treatment Technology: NA Treatment Capacity (MGD): 2 <u>Targeted Contaminants</u> Metal: TRUE Pathogens: TRUE Nutrients: TRUE Trash: FALSE Pollutants: TRUE Other: FALSE Description: X Water Quality X Volume Treated 2.16 MGD																									

Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA
Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NA

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0

Description:

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0

Description: 17 acres created /restored

Total Project Acres: 0

Other Benefits

Documentation of the effectiveness of flow-through engineered wetlands treatment systems in improving water quality of receiving waters.

Dominant existing land use type: PUB

Upstream/downstream land use type: NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization:

Project # 9 Carson Freeway Wetland

City of Carson, Carson Redevelopment Agency
 City of Carson City Hall 701 East Carson
 Street Carson, CA 90810

Patricia Elkins
 310-847-3529
 pelkins@carson.ca.us

NA

Partnering Agency:

<u>Project Description</u>																									
Acquire Brownfield property between the Dominguez Channel and the San Diego Freeway in the City of Carson and construct an engineered wetland to provide treatment of freeway storm water runoff and local dry weather flows from golf courses, local storm drains and/or the Dominguez Channel. Project includes linear jogging/bike path to provided critical recreational open space and enhance local redevelopment activity. The project is adjacent to two local golf courses and a planned mixed use development known as Carson Marketplace.																									
<u>Project Integration</u> Dominguez Watershed Master Plan	NA																								
<u>Project Need</u>																									
<u>Cooperating Agencies</u> Carson Redevelopment NA NA NA NA	<u>Location Description</u> The property consists of 29-acre strip of land sandwiched between the Dominguez Channel and the San Diego Freeway operated formerly as a solid waste landfill. On either side of the property are two public golf courses.	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 2000000 Upper Estimated Total Capital Cost (\$): 10000000 Of total cost, estimated cost for land purchase/easement (\$): 1000000 Annual OM Cost (\$): 50000 Design Life of Project (years): 50																							
<u>Associated Watersheds</u> DCW WB NA	<u>Project Source(s)</u> Dominguez Watershed Masterplan Dominguez Watershed Masterplan Carson Marketplace Specific Plan NA	<u>Sub-region(s)</u> SO_BAY NA NA																							
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Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: SEC
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): 27
Max Operational Depth (ft): 3
% Wetlands: 100
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: PRI
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: 14
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: 29

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: TRUE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NONPOT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0

Description:

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 27
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 2
Equestrian Trail Acres: 0
Other Acres: 0
Description: 29 acres created /restored

Total Project Acres: 29

Other Benefits

The project will provide 27 acres of flow-through wetland treatment of dry weather flows in the Dominguez Channel and secondarily provide infiltration and evapotranspiration of dry weather flows in the Dominguez Channel. The project will also provide recreational and enhance open-space by creating wetland habitat in the form of a linear pedestrian/jogging trail through the wetland connecting nearby residential areas with two public golf courses.

Dominant existing land use type: COM

Upstream/downstream land use type: OTHR

Addresses Environmental Justice issues: Y

Within Disadvantaged Community: Y

Disadvantaged Community Participation: Y

Organization:

Project # 37 Lower Franklin Canyon Park

City of Los Angeles Council District 5
 200 N. Spring Street, Room 440 Los Angeles,
 CA 90012

Paul Backstrom
 213-473-7005
 paul.backstrom@lacity.org

NA

Partnering Agency:

Project Description																										
<p>Features and natural resource restoration activities planned for the new park include, daylighting of the Higgins storm drain to create a constructed wetlands, 5,562 lineal feet of recreational paths and trails, 2 shade structures, 3 acres of orange groves, outdoor classroom, facility and interpretive signage, scenic overlooks, and restoration of the targeted reaches of the stream channel and riparian plant communities on the north and south sides of the inactive earthen dam. The project will restore 510 feet of the upper stream channel and 270 feet of the lower stream channel and will result in the creation of approximately 4 acres of riparian habitat. While the proposed project primarily addresses water quality, habitat and recreation needs, flood management is also addressed. The overall recreational objective of the projects is to make this area available for public parkland and open space uses, and to create an important link to the 600 acres of parkland immediately north that is part of the SMMNA.</p>																										
Project Integration Santa Monica Bay Restoration Plan & Ballona Creek Restoration Plan	Project Need Lower Franklin Canyon contains a covered reservoir, an inactive earthen dam, a stream corridor and riparian plant communities, and hillside areas covered with sage scrub and chaparral habitat. It is one of the few remaining undeveloped headwaters in the watershed. IRWMP funds will ensure realization of important social and environmental benefits including watershed improvements, habitat restoration and expansion of open space in a highly urbanized area. Implementation will increase productivity and diversity of riparian vegetation and wildlife habitat, and will also serve as a springboard to investigate the removal of the inactive earthen dam to further restore the stream corridor. If this project does not occur, physical and biological conditions of the stream channel sections will not be improved, and a crucial opportunity to enhance the resiliency and biodiversity of																									
Cooperating Agencies Santa Monica Bay Los Angeles Department of Water & Power Los Angeles Department of Water & Power LA City Recreation & Parks LA City Bureau of Engineering	Location Description The site is located in the Ballona Creek Watershed above the intersection of Beverly Drive and Coldwater Canyon in Los Angeles; between Franklin Canyon Park (Upper Franklin Canyon Reservoir) and Coldwater Canyon Park in the City of Beverly Hills.	Project Cost Estimate Lower Estimated Total Capital Cost (\$): 4000000 Upper Estimated Total Capital Cost (\$): 10000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 500000 Design Life of Project (years): 50																								
Associated Watersheds BCW SMBW NA	Project Source(s) None. None. NA NA	Sub-region(s) SO_BAY NA NA																								
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Ready For Construction Bid:	1-3 Years																									
Water Quality Objectives		Water Quality Benefits																								
Improve Storm Water Quality:	SEC	Treatment Technology: bio-filtration, infiltration and restoration																								
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 1.3																								
Receiving Water Body Qual. Improvement:	SEC	Targeted Contaminants																								
Improved Flood Management:	SEC	Metal: FALSE Pathogens: TRUE Nutrients: TRUE																								
Ground Water Protection or Improvement:	SEC	Trash: FALSE Pollutants: FALSE Other: FALSE																								
Other:		Description: 300																								

Water Supply Objectives

Reduced Reliance Imported Water: PRI
 Increased Water Supply Reliability: SEC
 Increased Operational Flexibility: SEC
 Increased Water Conservation: PRI
 Increased Water Recycling: SEC
 Increased Groundwater Management: SEC
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other: Groundwater Basin: Hollywood sub-basin

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 800
 Detention Basin Area (acres): 200
 Max Operational Depth (ft): -1
 % Wetlands: 5
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: PRI
 Restore/Protect Habitat: PRI
 Create Public Access/Rec/Open Space: PRI
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: 50
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: 640

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: TRUE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: TRUE
 Ocean Desalination: FALSE Transfer: FALSE

Other: NA

Type of supply/demand reduction: NA

Description: 1 - 100

Annual Yield of Supply (AFY): 190

Availability by water-year type (AFY)

Average Year: 190
 Dry Year: 35
 Wet Year: 280
 Other: 0

Description: NA

Availability by season:

Summer: FALSE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 2
 Treatment Wetland Acres: 2
 Riparian Habitat Acres: 4
 Open Space Acres: 640

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 1
 Equestrian Trail Acres: 0
 Other Acres: 3
 Description: NA

Total Project Acres: 652

Other Benefits

This project will allow the currently fenced-in area to become much needed public parkland/open space in a highly urbanized area. Natural channel/floodplain/terrace morphology as well as the vegetative connectivity of fragmented riparian plant communities will also be restored. The upper stream channel currently has 3.6 acres of willow woodland habitat; the only significant intact stand of this habitat type within the Ballona Creek sub-Watershed. The willow woodland habitat will be increased two fold. The goal of the project is to improve infiltration of water in the canyon so that

Dominant existing land use type: PUB
 Upstream/downstream land use type: PUB

Addresses Environmental Justice issues: N
 Within Disadvantaged Community: N
 Disadvantaged Community Participation: N
 Organization:

Project # 40 Catch Basin Cover Phase III

City of Los Angeles, Department of Public Work
 Bureau of Sanitation Watershed Protection
 Division 1149 S Broadway Street, 10th Floor
 Los Angeles, CA 90015
 NA

Kosta Kaporis
 213-485-0586
 kosta.kaporis@lacity.org

Partnering Agency:

<u>Project Description</u>																											
This project proposes the installation of CB opening screen covers in medium and low trash generation areas of the City. As trash is the primary target pollutant and will be either eliminated or significantly reduced by the installation of the CB covers. In addition, these CB covers will also reduce organic debris and sediment loading to the storm drain system. The CB opening screen covers are coarse screens that are installed in the CB opening and prevent trash from entering the City storm drain system. Each CB opening screen cover has a self-opening device activated by a predetermined street gutter flow to disengage its locking mechanism. These covers are designed to remain closed during both dry weather as well as small storms (
<u>Project Integration</u>		<u>Project Need</u>																									
		The installation of CB opening screen covers in the remaining trash generation areas of the City of Los Angeles is consistent with the City's compliance strategy for the Trash TMDL. By reducing the trash from the local waterbodies, this project protects the public health and enhances the receiving water beneficial and recreational uses and preserves aquatic marine and plant habitat. In addition, this project enhances the visual aesthetics of the waterbodies, thus improving the quality of life for the community. Furthermore, the installation of these additional CB opening screen covers plus those already installed under Phases I and II will not only guarantee compliance with the Trash TMDL regulations, but will also provide an immediate visible improvement aesthetically for residences in the communities.																									
<u>Cooperating Agencies</u>		<u>Location Description</u>																									
		Catch Basin Cover Phase III entails the installations of CB opening screen covers in the remaining medium and low trash generation areas of the City.																									
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		UP_LA_RVR SO_BAY LOW_LA_RVR																									
<u>Readiness to Proceed</u>																											
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>12/31/2006 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>IN_PROC</td> <td>7/1/2007 0:00</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	12/31/2006 0:00	Land Acquisition	NA	1/1/1753 12:00:	Preliminary Plans	NA	1/1/1753 12:00:	CEQA/NEPA	NA	1/1/1753 12:00:	Permits	NA	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	IN_PROC	7/1/2007 0:00
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Land Acquisition	NA	1/1/1753 12:00:																									
Preliminary Plans	NA	1/1/1753 12:00:																									
CEQA/NEPA	NA	1/1/1753 12:00:																									
Permits	NA	1/1/1753 12:00:																									
Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	IN_PROC	7/1/2007 0:00																									
Proposed Start Date: 10/1/2007 Proposed Completion Date: 9/29/2011 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:		Treatment Technology: Catch Basin Opening Screens Treatment Capacity (MGD): 3296.21 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: TRUE Pollutants: FALSE Other: FALSE Description:																									

Water Supply Objectives

Reduced Reliance Imported Water: NA
 Increased Water Supply Reliability: NA
 Increased Operational Flexibility: NA
 Increased Water Conservation: NA
 Increased Water Recycling: NA
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA
 Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 0
 Detention Basin Area (acres): 0
 Max Operational Depth (ft): 0
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY): NA
 Estimated Annual Inflow (AFY): 0
 Estimated Annual Outflow (AFY): 0

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: 0
 Max Conveyance Capacity: 0
 Flood Protection Level: NA
 Acres Benefitting: 0
 Other: 0
 Estimated Annual Flood Reduction Value: 0
 Acreage Required for Implementation: 0

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NA

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
 Dry Year: 0
 Wet Year: 0
 Other: 0

Description:

Availability by season:

Summer: FALSE Spring: FALSE
 Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: N

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0
Multiple Use/Recreation Area
 Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0
 Description: Citywide Landuses
 Total Project Acres: 254000

Other Benefits

The installation of CB opening screen covers in the remaining trash generation areas of the City of Los Angeles is consistent with the City's compliance strategy for the Trash TMDL. By reducing the trash from the local waterbodies, this project protects the public health and enhances the receiving water beneficial and recreational uses and preserves aquatic marine and plant habitat.

Dominant existing land use type: COM

 Upstream/downstream land use type: IND

Addresses Environmental Justice issues: N
 Within Disadvantaged Community: N
 Disadvantaged Community Participation: N
 Organization:

Project # 41 Machado Lake Ecosystem Rehabilitation Project

City of Los Angeles, Department of Public Works
 Watershed Protection Division 1149 S.
 Broadway 10th Fl Los Angeles, CA 90015

Kosta Kaporis
 213-485-0586
 kosta.kaporis@lacity.org

www.lacity.org

Partnering Agency: City of Los Angeles, Dept. of Rec.

<u>Project Description</u>																											
<p>Machado Lake will be enhanced through removal of contaminated sediments, installation of an aeration system, installation of an outlet device and spillway, trash capture devices in storm drain outlets, and creation of low flow channel (through the marsh to separate low lake flow from storm water flow). Habitat improvements in the marsh zones will be achieved by removal of non-native invasive plants, planting native species and debris removal. The park will be enhanced through a series of park improvements that will also include installation of pervious paving material in parking lot, installation of bioswales along portions of parking lots and facilities, and installation of a smart irrigation system.</p>																											
<u>Project Integration</u>		<u>Project Need</u>																									
		<p>Machado Lake is a polluted freshwater system with limited water circulation and continuous siltation. Contaminants found in the lake, such as trash, pesticides, minerals, nutrients, organics, and heavy metals, are attributable to general pollutants contained in urban runoff from the 20-square-mile watershed. These pollutants may pose a threat to the aquatic life, wildlife, or plant habitats found in the lake and the KMHRP. They also impair the beneficial uses of this ecosystem, including recreational fishing. For these reasons the Lake is listed as impaired in the most recent 303d list. In addition to the Lake, the surrounding wetland has been degraded and in need of aquascaping with endemic plants to improve aesthetics and habitat value.</p>																									
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>																									
City of Los Angeles, Department of Fish and Game Department of Fish and Game Audobon Society	The 40-acre Machado Lake is located in Ken Malloy Harbor Regional Park (KMHRP) in the Wilmington area of Los Angeles. The Park is bounded by Pacific Coast Highway, 110 freeway, Anaheim St. and Vermont Ave.	Lower Estimated Total Capital Cost (\$): 80000000 Upper Estimated Total Capital Cost (\$): 99000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): 1000000 Design Life of Project (years): 50																									
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>																								
DCW NA NA	Machado Lake Ecosystem Rehabilitation Project - Concept Report Machado Lake Ecosystem Rehabilitation Project - Concept Report		SO_BAY NA NA																								
<u>Is part of larger program?</u>																											
FALSE	Machado Lake Assessment Machado Lake Trash TMDL																										
<u>Readiness to Proceed</u>																											
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>12/13/2006 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	12/13/2006 0:00	Land Acquisition	NA	1/1/1753 12:00:	Preliminary Plans	NOT_INIT	1/1/1753 12:00:	CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	Permits	NOT_INIT	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
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Land Acquisition	NA	1/1/1753 12:00:																									
Preliminary Plans	NOT_INIT	1/1/1753 12:00:																									
CEQA/NEPA	NOT_INIT	1/1/1753 12:00:																									
Permits	NOT_INIT	1/1/1753 12:00:																									
Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 6/1/2010 Proposed Completion Date: 6/30/2014 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: NA Ground Water Protection or Improvement: SEC Other:	Treatment Technology: CDS, aeration, wetlands, on-site BMP Treatment Capacity (MGD): 370 Targeted Contaminants Metal: TRUE Pathogens: TRUE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: FALSE Description:																										

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	PRI
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	SEC
Other:	SEC

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		
Type of supply/demand reduction:	NA		
Description:	NA		
Annual Yield of Supply (AFY):	0		
<u>Availability by water-year type (AFY)</u>			
Average Year:	0		
Dry Year:	0		
Wet Year:	0		
Other:	0		
Description:	NA		
<u>Availability by season:</u>			
Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE
Has potential to displace demands on Bay/Delta/Estuary system:	NS		

Beneficial Use Benefit

Non-Treatment Wetland Acres:	40
Treatment Wetland Acres:	20
Riparian Habitat Acres:	20
Open Space Acres:	50
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	10
Pedestrian Trail Acres	10
Equestrian Trail Acres	0
Other Acres	20
Description:	Public Access
Total Project Acres:	220

Other Benefits

The project will improve Machado Lake by removing contaminated sediments, increasing its size, and through the use of an aeration system eliminate the effects of dissolved oxygen depletion. Stormwater pollutants discharged into the Lake will also be significantly reduced through the implementation of pollution abatement devices at the storm drain outlets into the Lake. The wetlands surrounding the Lake will be enhanced in their recreational and habitat value through of the use of aquascaping with endemic plants. Finally the overall park will be enhanced through a series of

Dominant existing land use type:	OTHR
Public Park	
Upstream/downstream land use type:	OTHR
Residential and Industrial	

Addresses Environmental Justice issues:	Y
Within Disadvantaged Community:	Y
Disadvantaged Community Participation:	N
Organization:	

Project # 43 Westminster Dog Park Stormwater Best Management Practices

City of Los Angeles, Department of Public Works
 Watershed Protection Division 1149 S
 Broadway Los Angeles, CA 90015

Kosta Kaporis
 213-485-0586
 kosta.kaporis@lacity.org

NA

Partnering Agency:

<u>Project Description</u>																											
The Westminster Park (Dog Park) project includes installation of modular constructed wetland Best Management Practices (BMPs) within this project site. By installing these BMPs, on-site runoff, which is highly contaminated by dog feces, will be captured and treated prior to discharging into the storm drain system.																											
<u>Project Integration</u>		<u>Project Need</u>																									
Santa Monica Bay Bacteria TMDL Implementation Plan		This project is consistent with the types of projects that have been identified in the SMBBB Implementation Plan for jurisdictions 2 and 3. The Implementation Plan was developed with various stakeholders. Stakeholders have agreed that by implementing sub regional projects targeting "hot spots", the watershed can meet its bacteria TMDL requirements. This project will result in an increased beneficial and recreational uses of receiving water bodies, reduced potential for human safety and health risk, reduced beach closures, the preservation of aquatic marine and plant habitat and positive impacts on the tourism industry while enabling the City to meet the new requirements of the stormwater NPDES permit to reduce bacterial levels in the surf zone.																									
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>																									
City of Los Angeles.	The Westminster Park is within the Santa Monica subwatershed and located at the corner of Main St. and Westminster Ave. Address: 1234 Pacific Avenue Venice, CA 90291	Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 2000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 50000 Design Life of Project (years): 15																									
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>																								
SMBW NA NA	Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005) Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005)		SO_BAY NA NA																								
<u>Is part of larger program?</u>																											
TRUE																											
<u>Readiness to Proceed</u>																											
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Land Acquisition	NOT_INIT	1/1/1753 12:00:																									
Preliminary Plans	NOT_INIT	1/1/1753 12:00:																									
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Permits	NOT_INIT	1/1/1753 12:00:																									
Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 1/1/2008 Proposed Completion Date: 5/1/2009 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:		Treatment Technology: Biofiltration/Disinfection Treatment Capacity (MGD): 0.02 Targeted Contaminants Metal: FALSE Pathogens: TRUE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: NA																									

Water Supply Objectives

Reduced Reliance Imported Water: SEC
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: SEC
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
SoilType: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: 0
Flood Protection Level: NA
Acres Benefitting: 0
Other: 0
Estimated Annual Flood Reduction Value: 0
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: TRUE
Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: POT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0.9
Dry Year: 0
Wet Year: 0
Other: 0

Description:

Availability by season:

Summer: TRUE Spring: TRUE
Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: N

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0

Description: NA

Total Project Acres: 0

Other Benefits

Achieving the compliance target of a 10% reduction of SMBBB wet weather bacteria exceedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project is the beneficial reuse of treated stormwater for irrigation at the Westminster Park.

Dominant existing land use type: RES

Upstream/downstream land use type: RES

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: N

Organization:

Project # 44 Penmar Water Quality Improvement and Runoff Reuse Project

City of Los Angeles, Department of Public Works
 Watershed Protection Division 1149 S
 Broadway Los Angeles, CA 90015

Kosta Kaporis
 213-485-0586
 kosta.kaporis@lacity.org

NA

Partnering Agency:

<u>Project Description</u>
The Penmar Water Quality Improvement and Runoff Reuse Project includes installation of hydrodynamic separators , underground detention tank, chlorination facility, pump station and overflow systems. Off-site surface runoff will be diverted to project site. The diverted runoff shall be treated/disinfected. The disinfected effluent will be pumped through a smart irrigation system to decrease the current landscaping irrigation demand.

<u>Project Integration</u> Santa Monica Bay Beaches Wet Weather Bacteria TMDL Implementation Plan	<u>Project Need</u> This project is consistent with the types of projects that have been identified in the SMBBB Implementation Plan for jurisdictions 2 and 3. The Implementation Plan was developed with various stakeholders. Stakeholders have agreed that by implementing sub regional projects targeting "hot spots" , the watershed can meet its bacteria TMDL requirements. This project will result in an increased beneficial and recreational uses of receiving water bodies, reduced potential for human safety and health risk, reduced beach closures, the preservation of aquatic marine and plant habitat and positive impacts on the tourism industry while enabling the City to meet the new requirements of the stormwater NPDES permit to reduce bacterial levels in the surf zone.
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<u>Cooperating Agencies</u> City of Santa Monica Los Angeles, Department of Rec. & Park Los Angeles, Department of Rec. & Park	<u>Location Description</u> The Penmar Water Quality Improvement and Runoff Reuse Project are within the Santa Monica subwatershed and located at Penmar Golf, Penmar Rec. & Park, and Marine Park. Address: 1233 Rose Ave Venice, CA 90291	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 25000000 Upper Estimated Total Capital Cost (\$): 30000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 114000 Design Life of Project (years): 20
<u>Associated Watersheds</u> SMBW NA NA	<u>Project Source(s)</u> Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005) Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005) Penmar Water Quality Improvement and Runoff Reuse-Concept Report	<u>Sub-region(s)</u> SO_BAY NA NA
<u>Is part of larger program?</u> TRUE		

<u>Readiness to Proceed</u>		
NA	<u>Item</u>	<u>Status</u>
	Conceptual Plans	COMP 4/13/2007 0:00
	Land Acquisition	NA 1/1/1753 12:00:
	Preliminary Plans	NOT_INIT 1/1/1753 12:00:
	CEQA/NEPA	NOT_INIT 1/1/1753 12:00:
	Permits	NOT_INIT 1/1/1753 12:00:
	Construction Drawings	NOT_INIT 1/1/1753 12:00:
	Funding	NOT_INIT 1/1/1753 12:00:
Proposed Start Date: 7/1/2008		
Proposed Completion Date: 6/1/2009		
Ready For Construction Bid: 1-3 Years		

<u>Water Quality Objectives</u> Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:	<u>Water Quality Benefits</u> Treatment Technology: Sedimentation, Infiltration, Disinfection Treatment Capacity (MGD): 3.75 <u>Targeted Contaminants</u> Metal: TRUE Pathogens: TRUE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: FALSE Description: NA
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Water Supply Objectives

Reduced Reliance Imported Water: SEC
 Increased Water Supply Reliability: NA
 Increased Operational Flexibility: NA
 Increased Water Conservation: SEC
 Increased Water Recycling: NA
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: TRUE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: POT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 122
 Dry Year: 0
 Wet Year: 0
 Other: 0

Description:

Availability by season:

Summer: TRUE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: N

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0

Description:
 Total Project Acres: 0

Other Benefits

Achieving the compliance target of a 10% reduction of SMBBB wet weather bacteria exceedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project are the opportunity to infiltrate and potential beneficial reuse of treated stormwater for irrigation at the Penmar Recreation Center and Golf Course.

Dominant existing land use type: RES

Upstream/downstream land use type: RES

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: N

Organization:

Project # 45 Temescal Canyon Recreation Center Stormwater Best

City of Los Angeles, Department of Public Works
 Watershed Protection Division 1149 S
 Broadway Los Angeles, CA 90015

Kosta Kaporis
 213-485-0586
 kosta.kaporis@lacity.org

NA

Partnering Agency:

<u>Project Description</u>																											
The BMPs proposed for the Temescal Canyon Recreation Center Stormwater Best Management Practices Project includes: 1-Diversion of off-site stormwater from existing stormdrain system to the project site. 2-Pretreatment of diverted stormwater through hydrodynamic separators. 3-Retention of pretreated stormwater in one underground detention tank. 4-Disinfection of the stormwater prior to irrigation. 5-Beneficial reuse of the treated stormwater through landscape irrigation and potentially firefighting through out the year.																											
<u>Project Integration</u> Santa Monica Bay Beaches Wet Weather Bacteria TMDL Implementation Plan		<u>Project Need</u> This project is consistent with the types of projects that have been identified in the SMBBB Implementation Plan for jurisdictions 2 and 3. The Implementation Plan was developed with various stakeholders. Stakeholders have agreed that by implementing sub regional projects targeting "hot spots", the watershed can meet its bacteria TMDL requirements. This project will result in an increased beneficial and recreational uses of receiving water bodies, reduced potential for human safety and health risk, reduced beach closures, the preservation of aquatic marine and plant habitat and positive impacts on the tourism industry while enabling the City to meet the new requirements of the stormwater NPDES permit to reduce bacterial levels in the surf zone.																									
<u>Cooperating Agencies</u> City of Los Angeles,	<u>Location Description</u> The Temescal Canyon Recreation Center is within the Santa Monica subwatershed and located at the intersection of Temescal Canyon Rd and Pacific Coast Highway. Address: 15900 Pacific Coast Highway Pacific Palisades, CA 90272	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 20000000 Upper Estimated Total Capital Cost (\$): 25000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 900000 Design Life of Project (years): 20																									
<u>Associated Watersheds</u> SMBW NA NA	<u>Project Source(s)</u> Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005) Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005)		<u>Sub-region(s)</u> SO_BAY NA																								
<u>Is part of larger program?</u> TRUE	SCAL CANYON RECREATION CENTER STORMWATER BMPs-Concept		NA																								
<u>Readiness to Proceed</u>																											
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th><u>Item</u></th> <th><u>Status</u></th> <th><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>4/13/2007 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	4/13/2007 0:00	Land Acquisition	NOT_INIT	1/1/1753 12:00:	Preliminary Plans	NOT_INIT	1/1/1753 12:00:	CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	Permits	NOT_INIT	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
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Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 7/1/2008 Proposed Completion Date: 6/1/2009 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality:	PRI	Treatment Technology: Sedimentation, Stormwater Detention/																									
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 2.5																									
Receiving Water Body Qual. Improvement:	PRI	<u>Targeted Contaminants</u>																									
Improved Flood Management:	NA	Metal: TRUE	Pathogens: TRUE Nutrients: TRUE																								
Ground Water Protection or Improvement:	NA	Trash: TRUE	Pollutants: TRUE Other: FALSE																								
Other:		Description: NA																									

Water Supply Objectives

Reduced Reliance Imported Water: SEC
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: SEC
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
SoilType: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: TRUE
Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NA

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 27
Dry Year: 0
Wet Year: 0
Other: 0

Description:

Availability by season:

Summer: TRUE Spring TRUE
Fall: TRUE Winter TRUE

Has potential to displace demands on Bay/Delta/Estuary system: N

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0

Description:
Total Project Acres: 0

Other Benefits

Achieving the compliance target of a 10% reduction of SMBBB wet weather bacteria exceedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project is the beneficial reuse of treated stormwater for irrigation at the Temescal CYN Recreation Center.

Dominant existing land use type: OTHR

Upstream/downstream land use type: OTHR

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: N

Organization:

Project # 46 Westchester-LAX Stormwater Best Management Practices

City of Los Angeles, Department of Public Works
 Watershed Protection Division 1149 S
 Broadway Los Angeles, CA 90015

Kosta Kaporis
 213-485-0586
 kosta.kaporis@lacity.org

NA

Partnering Agency: LAX

<u>Project Description</u>																															
<p>The BMPs proposed for the Westchester-LAX Stormwater Best Management Practices Project includes: Diversion of off-site stormwater from existing stormdrain system to the project site, Pretreatment of diverted stormwater through hydrodynamic separators, Retention of pretreated stormwater in one underground detention tanks, Possible infiltration/re-use of the treated stormwater, Return of excess treated stormwater to the LFD during dry-weather conditions, which will then be diverted to the Hyperion Treatment Plant for further treatment.</p>																															
<u>Project Integration</u> Santa Monica Bay wet Weather Bactreia TMDL Implementation Plan	<u>Project Need</u> Stormwater runoff has the potential of introducing pollutants(pathogens, oil and grease, suspended solids, metals, gasoline and other toxics) to the storm water conveyance system and, ultimately, the receiving water body (Santa Monica Bay). Current loadings or historic deposits of the pollutant are impacting the beneficial uses of receiving water bodies. Elevated levels of the pollutant are found in sediments of receiving water body and/or have the potential to bioaccumulate in organisms therein. The detectable inputs of the pollutant are at a concentrations or loads considered potentially toxic to humans and habitats.The overall objective of the Westchester-LAX Stormwater Best Management Practices Project is to assist in compliance with the Santa Monica Bay Beaches Wet Weather Bacteria TMDL.																														
<u>Cooperating Agencies</u> Los Angeles World Airport Los Angeles County, Department of Public Works Los Angeles County, Department of Public Works	<u>Location Description</u> North West corner of the Los Angeles World Airport (LAWA) Property, corner Westchester and Pershing Dr. North Westchester Subwatershed																														
<u>Associated Watersheds</u> SMBW NA NA	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 35000000 Upper Estimated Total Capital Cost (\$): 40000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 456000 Design Life of Project (years): 30																														
<u>Is part of larger program?</u> TRUE	<u>Project Source(s)</u> Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2&3 Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2&3 Westchester-LAX Stormwater Best Management Practices-Concept Report																														
	<u>Sub-region(s)</u> SO_BAY NA NA																														
<u>Readiness to Proceed</u>																															
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<u>Water Quality Objectives</u> Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:	<u>Water Quality Benefits</u> Treatment Technology: Sedimentation, Detention/Infiltration Treatment Capacity (MGD): 10.5 <u>Targeted Contaminants</u> Metal: TRUE Pathogens: TRUE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: FALSE Description:																														

Water Supply Objectives

Reduced Reliance Imported Water: NA
 Increased Water Supply Reliability: NA
 Increased Operational Flexibility: SEC
 Increased Water Conservation: SEC
 Increased Water Recycling: NA
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: TRUE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NA

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
 Dry Year: 0
 Wet Year: 0
 Other: 0

Description:

Availability by season:

Summer: TRUE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: N

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0

Description:
 Total Project Acres: 0

Other Benefits

Achieving the compliance target of a 10% reduction of SMBB wet weather bacteria exceedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project are the opportunity to infiltrate and potential beneficial reuse of treated stormwater for irrigation at the Westchester-LAX.

Dominant existing land use type: OTHR

Upstream/downstream land use type: OTHR

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: N

Organization:

Project # 55 Chandler Sand & Gravel Redevelopment Infiltration Basin

City of Rolling Hills Estates
NA

Kathleen McGowan
310-373-0330
kathleen.enve@verizon.net

<http://ci.rolling-hills-estates.ca.us/comm-issues/chandler/index.htm>

Partnering Agency:

<u>Project Description</u>																										
<p>Incorporation of a stormwater infiltration/groundwater recharge/flood control basin into redevelopment of the former sand & gravel quarry, currently an inert landfill. Redevelopment plans for the property involve the construction of new homes and expansion of a private golf course. Basin would receive runoff from 500 acres including 250 acres outside the redevelopment project conveyed via five natural drainage courses. Property includes groundwater rights and the basin could either provide surface water source for golf course irrigation or serve as recharge for groundwater used for irrigation.</p>																										
<u>Project Integration</u>	NA																									
<u>Project Need</u>																										
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>																								
NA NA NA NA NA	This former 127-acre sand & gravel quarry is located in the northeast corner of the City of Rolling Hills Estates, straddling the Lomita and Torrance City boundaries. It is located within the Machado Lake subwatershed of the Dominguez Watershed.	Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 2000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																								
<u>Associated Watersheds</u>	<u>Project Source(s)</u>																									
DCW WB NA	Dominguez Watershed Masterplan Dominguez Watershed Masterplan Machado Lake Watershed Management Plan Machado Lake TMDLs (in development)																									
<u>Is part of larger program?</u>	<u>Sub-region(s)</u>																									
FALSE	SO_BAY NA NA																									
<u>Readiness to Proceed</u>																										
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>IN_PROC</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>	<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	IN_PROC	1/1/2001 0:00	Land Acquisition	NOT_INIT	1/1/1753 12:00:	Preliminary Plans	NOT_INIT	1/1/1753 12:00:	CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	Permits	NOT_INIT	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
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Proposed Start Date: 1/1/2008 Proposed Completion Date: 1/1/2009 Ready For Construction Bid: N/A																										
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																								
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: SEC Improved Flood Management: PRI Ground Water Protection or Improvement: NA Other:	Treatment Technology: NA Treatment Capacity (MGD): 0.5 <u>Targeted Contaminants</u> Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: Area Drained 500 acres																									

Water Supply Objectives

Reduced Reliance Imported Water: SEC
 Increased Water Supply Reliability: NA
 Increased Operational Flexibility: NA
 Increased Water Conservation: NA
 Increased Water Recycling: NA
 Increased Groundwater Management: PRI
 Reduced Sea Water Intrusion: SEC
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NA
 Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
 Dry Year: 0
 Wet Year: 0
 Other: 0
 Description:

Availability by season:

Summer: FALSE Spring: FALSE
 Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0
 Description: NA

Total Project Acres: 0

Other Benefits

500 acres flood control

Dominant existing land use type: NA

Upstream/downstream land use type: NA

Addresses Environmental Justice issues: NS

Within Disadvantaged Community: NS

Disadvantaged Community Participation: NS

Organization:

Project # 56 Peninsula Village Green Building Review

City of Rolling Hills Estates
NA

Kathleen McGowan
310-373-0330
kathleen.enve@verizon.net

<http://ci.rolling-hills-estates.ca.us/comm-issues/pennvillage/index.htm>

Partnering Agency:

<u>Project Description</u>																									
<p>Provide a 50% match to developers for the cost associated with contracting for an external environmental review of green building aspects of development/redevelopment projects proposed within the Peninsula Village overlay zone. This would include review for incorporation of green building features that also achieve IRWMP objectives including: water conservation, water recycling, flood management, stormwater capture and management/reuse, water quality protection and improvement.</p>																									
<u>Project Integration</u>	<u>Project Need</u>																								
NA																									
<u>Cooperating Agencies</u>	<u>Location Description</u>																								
<p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p>	<p>The newly created Peninsula Village Overlay Zone enables development of a mixed-use urban village combining high-density residences, office/service space, and retail uses in a pedestrian-oriented environment in the heart of the City of Rolling Hills</p>																								
<u>Associated Watersheds</u>	<u>Project Cost Estimate</u>																								
<p>DCW</p> <p>WB</p> <p>NA</p>	<p>Lower Estimated Total Capital Cost (\$): 100000</p> <p>Upper Estimated Total Capital Cost (\$): 100000</p> <p>Of total cost, estimated cost for land purchase/easement (\$): -1</p> <p>Annual OM Cost (\$): -1</p> <p>Design Life of Project (years): -1</p>																								
<u>Is part of larger program?</u>	<u>Project Source(s)</u>																								
FALSE	<p>Dominguez Watershed Masterplan</p> <p>Dominguez Watershed Masterplan</p> <p>Machado Lake Watershed Management Plan</p> <p>Machado Lake TMDLs (in development)</p>																								
	<u>Sub-region(s)</u>																								
	<p>SO_BAY</p> <p>NA</p> <p>NA</p>																								
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<p>Proposed Start Date: 1/1/2007</p> <p>Proposed Completion Date: 1/1/2009</p> <p>Ready For Construction Bid: N/A</p>																									
<u>Water Quality Objectives</u>	<u>Water Quality Benefits</u>																								
<p>Improve Storm Water Quality: NA</p> <p>Improve Wastewater Effluent WQ: NA</p> <p>Receiving Water Body Qual. Improvement: NA</p> <p>Improved Flood Management: NA</p> <p>Ground Water Protection or Improvement: NA</p> <p>Other:</p>	<p>Treatment Technology: NA</p> <p>Treatment Capacity (MGD): 0</p> <p>Targeted Contaminants</p> <p>Metal: FALSE Pathogens: FALSE Nutrients: FALSE</p> <p>Trash: FALSE Pollutants: FALSE Other: FALSE</p> <p>Description: Area Drained 87 acres</p>																								

Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA
Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE
Other:

Type of supply/demand reduction: NA
Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0
Description:

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0
Multiple Use/Recreation Area
Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0
Description: NA
Total Project Acres: 0

Other Benefits

87 acres subject to green building review

Dominant existing land use type: NA

Upstream/downstream land use type: NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization:

Project # 57 Peninsula Village Regional Stormwater Mitigation Program

City of Rolling Hills Estates
4045 Palos Verdes Drive North Rolling Hills
Estates, CA 90274

Kathleen McGowan
310-373-0330
kathleen.enve@verizon.net

<http://ci.rolling-hills-estates.ca.us/comm-issues/pennvillage/index.htm>

Partnering Agency:

Project Description																									
<p>The project will integrate a system of stormwater BMPs into the Streetscape Master Plan for public rights-of-way in a mixed-use overlay zone. Grant funding will support the portion of the stormwater mitigation for public streets and existing development, while mitigation banking from developers will fund SUSMP mitigation to benefit private redevelopment projects. The project will reduce the effective impervious area of the overlay zone and remove stormwater pollutants through: low impact redevelopment, integrated water resources management, multi-benefit natural features, and structural treatment control BMPs. Project will increase safe pedestrian access throughout the district and provide connectivity to recreational trails. Project features include: porous paving for walkways and parking lots, reuse of rainwater from roof drains for landscape irrigation, water efficient landscaping with smart irrigation controllers, curb cuts to route street runoff into curbside swales/biofiltration systems.</p>																									
Project Integration Peninsula Village Overlay Zone	Project Need The commercial core of the City of Rolling Hills Estates is fully built-out and largely impervious (>85%). The City has proposed to rezone 45 acres of existing commercial area for redevelopment to a mixed-use village, providing up to 900 new dwelling units where there currently are none, along with office, service and retail use in a pedestrian-oriented environment. The Streetscape Master Plan (project) is an essential unifying element of the overlay zone focusing on aesthetic and pedestrian improvements within the public rights-of-way. The project also provides an opportunity to create a sub-regional storm water mitigation program within the public rights-of-way to substitute in part for SUSMP requirements on individual redevelopment sites and to provide mitigation for runoff from public streets and existing development not contemplated for redevelopment. The objective																								
Cooperating Agencies West Basin Municipal Water Albany County Department of Public Works Albany County Department of Public Works South Bay Energy Savings Center NA	Location Description Peninsula Village is located within the commercial core of the City of Rolling Hills Estates and is to be a mixed-use urban district with commercial and high-density residential development in a pedestrian-oriented environment.																								
Associated Watersheds DCW WB NA	Project Cost Estimate Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 10000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																								
Is part of larger program? TRUE	Project Source(s) Streetscape Master Plan Streetscape Master Plan Draft Program EIR Draft Peninsula Overlay Zone																								
	Sub-region(s) SO_BAY NA NA																								
Readiness to Proceed																									
NA	<table border="1"> <thead> <tr> <th>Item</th> <th>Status</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>5/1/2007 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>COMP</td> <td>12/1/1958 0:00</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>IN_PROC</td> <td>5/1/2007 0:00</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>IN_PROC</td> <td>1/30/2008 0:00</td> </tr> </tbody> </table>	Item	Status	Date	Conceptual Plans	COMP	5/1/2007 0:00	Land Acquisition	COMP	12/1/1958 0:00	Preliminary Plans	NOT_INIT	1/1/1753 12:00:	CEQA/NEPA	IN_PROC	5/1/2007 0:00	Permits	NOT_INIT	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	IN_PROC	1/30/2008 0:00
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Funding	IN_PROC	1/30/2008 0:00																							
Proposed Start Date: 9/1/2008																									
Proposed Completion Date: 9/1/2010																									
Ready For Construction Bid: 1-3 Years																									
Water Quality Objectives	Water Quality Benefits																								
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: PRI Ground Water Protection or Improvement: NA Other:	Treatment Technology: infiltration, filtration Treatment Capacity (MGD): 0.916 Targeted Contaminants Metal: TRUE Pathogens: TRUE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: FALSE Description:																								

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	PRI
Increased Water Recycling:	PRI
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	NA
Other:	NA
energy conservation	

Flood Management Benefit Information

Max Storm Runoff Storage:	1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	TRUE
Reclaimed Groundwater:	FALSE	Conservation:	TRUE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:			
Type of supply/demand reduction:	POT		
Description:			
Annual Yield of Supply (AFY):	22		
Availability by water-year type (AFY)			
Average Year:	22		
Dry Year:	11		
Wet Year:	22		
Other:	0		
Description:	NA		
Availability by season:			
Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE
Has potential to displace demands on Bay/Delta/Estuary system:	Y		

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	1
Equestrian Trail Acres	0
Other Acres	0
Description:	NA
Total Project Acres:	1

Other Benefits

Stormwater and urban runoff from the 45 acres of downtown development within the Streetscape Master Plan will be reduced by increasing the effective permeability of the area from 15% to 85%. The project will infiltrate or beneficially reuse and treat the equivalent of a ¼ inch 24-hour rainfall or 34.2 acre-feet thereby providing significant flood management benefits to adjacent low-lying jurisdictions. Catch basins will be equipped with trash capture devices. Water demand for landscape irrigation within the project area will be met with beneficially reused or reclaimed water.

Dominant existing land use type:	COM
Upstream/downstream land use type:	RES

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	N
Disadvantaged Community Participation:	N
Organization:	

Project # 58 Model Equestrian Center

City of Rolling Hills Estates
 4045 Palos Verdes Drive North Rolling Hills
 Estates, CA 90274

Andy Clark
 310-377-1577
 tyc@ci.rolling-hills-estates.ca.us

Partnering Agency:

Project Description																																											
<p>The current municipal stables has space for 112 horses and includes three riding rings and two hot-walking rings. Plans are to include space for boarding additional horses as well as an additional riding ring and a turn-out ring. Design will incorporate low impact development and multi-benefit natural features. California Stormwater BMP Handbook guidelines for stable design and siting and manure management as well as IPM practices will be incorporated into the design and operation of the facility to minimize storm water pollution and runoff and optimize protection of human and equine health. The project will be designed to take advantage of reclaimed water infrastructure under development by West Basin MWD. The project is sited on the former Palos Verdes Landfill owned by the Sanitation Districts of Los Angeles County and has the approval of both the Sanitation Districts and California Department of Toxic Substances Control as a beneficial reuse of this brownfield site. O&M costs to be covered by user fees</p>																																											
Project Integration Dominguez Watershed Management Master Plan	Project Need A facility is needed to demonstrate BMPs for protecting water quality from equestrian activity and no such facility is currently available in the South Bay. An estimated 1000 horses are kept on residential properties within equestrian overlay zones on the Palos Verdes Peninsula. Runoff from these residential equestrian properties discharges via open channels and storm drains either to Machado Lake in the Dominguez Watershed or the Santa Monica Bay. Rolling Hills Estates municipal stables provides boarding facilities for horses as well as pony camp classes that teach horsemanship to children—these classes are completely filled each summer. The riding rings and boarding facilities are heavily utilized by the public and in dire need of renovation. A planned renovation and expansion provides the opportunity to incorporate low impact development, stormwater best management																																										
Cooperating Agencies Sanitation Districts of Los Angeles County Dept. of Toxic Substances Control Dept. of Toxic Substances Control Equestrian Committee of Rolling Hills I	Location Description Project is located on property leased from the Sanitation Districts of Los Angeles on the former Palos Verdes Landfill within the Machado Lake subwatershed of the Dominguez Watershed.	Project Cost Estimate <table style="width:100%; border: none;"> <tr> <td>Lower Estimated Total Capital Cost (\$):</td> <td style="text-align: right;">2500000</td> </tr> <tr> <td>Upper Estimated Total Capital Cost (\$):</td> <td style="text-align: right;">3500000</td> </tr> <tr> <td>Of total cost, estimated cost for land purchase/easement (\$):</td> <td style="text-align: right;">0</td> </tr> <tr> <td>Annual OM Cost (\$):</td> <td style="text-align: right;">750000</td> </tr> <tr> <td>Design Life of Project (years):</td> <td style="text-align: right;">20</td> </tr> </table>		Lower Estimated Total Capital Cost (\$):	2500000	Upper Estimated Total Capital Cost (\$):	3500000	Of total cost, estimated cost for land purchase/easement (\$):	0	Annual OM Cost (\$):	750000	Design Life of Project (years):	20																														
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Water Supply Objectives

Reduced Reliance Imported Water: SEC
 Increased Water Supply Reliability: NA
 Increased Operational Flexibility: NA
 Increased Water Conservation: SEC
 Increased Water Recycling: SEC
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 SoilType: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: SEC
 Create Public Access/Rec/Open Space: PRI
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: TRUE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: POT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
 Dry Year: 0
 Wet Year: 0
 Other: 0

Description:

Availability by season:

Summer: TRUE Spring TRUE
 Fall: TRUE Winter TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 7
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0

Description: open space/recreation

Total Project Acres: 7

Other Benefits

The project will create an educational demonstration site for environmentally sustainable horsekeeping practices and expand opportunity for public recreation. The project will be designed to infiltrate rainfall from the 10-acre drainage area and will demonstrate BMPs that can be easily replicated at private residential stables. The project will incorporate horse-safe native plant habitat buffers around the facility utilizing reclaimed water to establish the new plantings. Current potable water usage for dust control in riding rings will be replaced with reclaimed water. The project will

Dominant existing land use type: OTHR

Upstream/downstream land use type: RES

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: Y

Organization:

Project # 59 16th Street Watershed Runoff Reuse Demonstration Project

City of Santa Monica
 Neal Shapiro City of Santa Monica 200 Santa
 Monica Pier Suite K Santa Monica, CA 90401

Neal Shapiro
 310-458-8223
 neal.shapiro@smsgov.net

www.santa-monica.org/epd

Partnering Agency: City of Los Angeles

<u>Project Description</u>																									
2 or 3 stage treatment, storage, infiltration and/or reuse project for all dry weather runoff, and up to 80% wet weather. Primary stage to remove trash, debris, and sediments. Secondary stage to filter out soluble pollutants, like heavy metals and organics, oil and grease. Final stage for storage and reuse, overflow to infiltration zone.																									
IRWMP <u>Project Integration</u>	<u>Project Need</u> This project is critically needed to reduce urban runoff pollution reach the Santa Monica Bay at the Rose Avenue storm drain in the City of Los Angeles, improving ocean water quality, to reduce beach postings, and to provide a local source of water for reuse at a city park, i.e. landscape irrigation. By reusing stormwater, the city can reduce its dependence on imported water from northern California and the Colorado River, and helps the city become more sustainable.																								
<u>Cooperating Agencies</u> City of Los Angeles County of Los Angeles County of Los Angeles NA NA	<u>Location Description</u> The areas upstream of the project site (which is the end of the watershed) include single and multiple family properties, commercial and institutional areas, open spaces, and transportation areas.																								
<u>Associated Watersheds</u> SMBW WB NA	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 2500000 Upper Estimated Total Capital Cost (\$): 4000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): 5000 Design Life of Project (years): 30																								
<u>Is part of larger program?</u> TRUE	<u>Project Source(s)</u> Bacterial TMDL for Santa Monica Bay Bacterial TMDL for Santa Monica Bay City Watershed Management Plan City of LA Penmar BMP project																								
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Proposed Start Date: 4/1/2009 Proposed Completion Date: 4/1/2010 Ready For Construction Bid: 1-3 Years																									
<u>Water Quality Objectives</u>	<u>Water Quality Benefits</u>																								
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: PRI Ground Water Protection or Improvement: NA Other:	Treatment Technology: Separation, screening, media-filtration Treatment Capacity (MGD): 250000 <u>Targeted Contaminants</u> Metal: TRUE Pathogens: TRUE Nutrients: FALSE Trash: TRUE Pollutants: TRUE Other: FALSE Description: 230 acres, appr. 80 cfs or 7 acre-feet																								

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	PRI
Increased Water Conservation:	NA
Increased Water Recycling:	PRI
Increased Groundwater Management:	PRI
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE

Other: Stormwater reuse

Type of supply/demand reduction: NONPOT

Description:

Annual Yield of Supply (AFY): 0

Availability by water-year type (AFY)

Average Year:	-1
Dry Year:	0
Wet Year:	0
Other:	0

Description: NA

Availability by season:

Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	NA
Total Project Acres:	260

Other Benefits

Removal of all or most runoff pollutants; reuse of stormwater, couple 100 thousand gallons per year for reuse, offsetting need for equivalent amt of potable water;

Dominant existing land use type:	RES
Upstream/downstream land use type:	OTHR
Residential, commercial, open spaces	

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	N
Disadvantaged Community Participation:	N
Organization:	

Project # 61 Parks Runoff Retrofit Reuse-Infiltration Projects

City of Santa Monica
 City of Santa Monica 200 Santa Monica Pier
 Suite K Santa Monica, CA 90401

Neal Shapiro
 310-458-8223
 neal.shapiro@smgov.net

www.santa-monica.org/epd

Partnering Agency: County of Los Angeles Public Works

<u>Project Description</u>																										
<p>Retrofit an existing park by adding a series of runoff treatment, reuse and infiltration BMPs to deal with onsite and offsite runoff. The pre-treatment stages will remove large, floatable and soluble pollutants. Disinfection treatment will also be included for runoff that is reused for landscape irrigation and indoor flushing. Runoff from the adjacent streets and/or from an adjacent storm drain line, whichever offers the best ongoing runoff supply, will be diverted to the treatment and storage system. The BMP system will also have an overflow stage for infiltration of some runoff, so that during periods of low reuse, runoff can be infiltrated into the ground.</p>																										
<p>IRWMP</p> <p style="text-align: center;"><u>Project Integration</u></p>	<p style="text-align: center;"><u>Project Need</u></p> <p>This project will demonstrate how open spaces of cities, that is parks, which are found throughout the City of Santa Monica and in most cities, can be used to harvest dry weather and wet weather runoff from surface flows and/or storm drain lines adjacent to parks, treat the runoff, store it and reuse it for landscape irrigation. This project is critical to demonstrate how local water resources can be captured and reused, and also keep this water pollution source out of the Santa Monica Bay, leading to improved water quality and beneficial uses. Also, by removing stormwater runoff from storm drains, flood control management is included.</p>																									
<p style="text-align: center;"><u>Cooperating Agencies</u></p> <p>County of Los Angeles Public NA NA NA NA</p>	<p style="text-align: center;"><u>Location Description</u></p> <p>Area upstream of a city park location include single- and multi-family residential, commercial and transportation.</p>	<p style="text-align: center;"><u>Project Cost Estimate</u></p> <p>Lower Estimated Total Capital Cost (\$): 2500000 Upper Estimated Total Capital Cost (\$): 3250000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 5000 Design Life of Project (years): 30</p>																								
<p style="text-align: center;"><u>Associated Watersheds</u></p> <p>SMBW NA NA</p>	<p style="text-align: center;"><u>Project Source(s)</u></p> <p>Bacterial and Trash TMDLs Bacterial and Trash TMDLs and future TMDLs for the SM Bay; City Watershed Management Plan NA</p>																									
<p style="text-align: center;"><u>Is part of larger program?</u></p> <p>TRUE</p>	<p style="text-align: center;"><u>Sub-region(s)</u></p> <p>SO_BAY NA NA</p>																									
<u>Readiness to Proceed</u>																										
<p>NA</p>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Land Acquisition</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>	<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	NOT_INIT	1/1/1753 12:00:	Land Acquisition	NA	1/1/1753 12:00:	Preliminary Plans	NOT_INIT	1/1/1753 12:00:	CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	Permits	NOT_INIT	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
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Construction Drawings	NOT_INIT	1/1/1753 12:00:																								
Funding	NOT_INIT	1/1/1753 12:00:																								
<p>Proposed Start Date: 6/1/2009 Proposed Completion Date: 12/15/2009 Ready For Construction Bid: 1-3 Years</p>																										
<u>Water Quality Objectives</u>	<u>Water Quality Benefits</u>																									
<p>Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: PRI Ground Water Protection or Improvement: SEC Other:</p>	<p>Treatment Technology: Filtering, Disinfection Treatment Capacity (MGD): 0.1 Targeted Contaminants Metal: TRUE Pathogens: TRUE Nutrients: FALSE Trash: TRUE Pollutants: TRUE Other: FALSE Description: Unknown at this time</p>																									

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	PRI
Increased Water Conservation:	PRI
Increased Water Recycling:	PRI
Increased Groundwater Management:	SEC
Reduced Sea Water Intrusion:	SEC
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	SEC
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	Runoff		
Type of supply/demand reduction:	NONPOT		
Description:			
Annual Yield of Supply (AFY):	15		
Availability by water-year type (AFY)			
Average Year:	15		
Dry Year:	0		
Wet Year:	0		
Other:	0		
Description:	NA		
Availability by season:			
Summer:	FALSE	Spring	TRUE
Fall:	FALSE	Winter	TRUE
Has potential to displace demands on Bay/Delta/Estuary system:	Y		

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	Yes, for Memorial Park, new open spaces; No for Ozone Park.
Total Project Acres:	0

Other Benefits

Water Quality: Removal of all runoff pollutants captured for the project BMP system; reduction of pollution to the Santa Monica Bay; improvement of water quality in the Bay; improvement of beneficial uses of the Bay in the area of Santa Monica beaches, which receive millions of visitors and users each year. Water Supply: Reuse of dry weather (if applicable) and stormwater; reduction in demand for imported potable water from distant watersheds; leave more potable water in distant watersheds, protecting those watersheds. Flood Management: reduce the amount of stormwater in

Dominant existing land use type:	RES
Upstream/downstream land use type:	COM

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 67 Memorial Park Runoff Treatment and Reuse Project - 1

City of Santa Monica
 City of Santa Monica 200 Santa Monica Pier
 Suite K Santa Monica, CA 90401

Neal Shapiro
 310-458-8223
 neal.shapiro@smsgov.net

www.santa-monica.org/epd

Partnering Agency: County of Los Angeles

<u>Project Description</u>																											
This project will involve 2-3 treatment systems in series, harvesting stormwater runoff from the main storm drain passing by the Park. Runoff will be diverted to a primary screening/separation system to remove floatables and larger materials (trash, debris, sediments), then a secondary system to remove soluble pollutants and then a tertiary storage/reuse vault. The stored runoff will be used for landscape irrigation and/or infiltration into the ground (overflow, excess storage). The system will be underground.																											
IRWMP <u>Project Integration</u>	<u>Project Need</u> This project is a critically important demonstration project of how the open spaces of a park can be used to harvest urban runoff and its pollution, store it, reuse it for landscape irrigation and infiltrate excess storage. This project will demonstrate how runoff pollution can be kept out of the Santa Monica Bay, improving water quality of the Bay. This project will demonstrate how a local water resource, stormwater, can be reused locally, reducing demand for more valuable imported potable water from Northern California and the Colorado River. This project will show how new open spaces can serve multiple uses: recreation, pollution reduction, and water reuse. This project demonstrates how the city can be more sustainable and will help the city meet its obligations for TMDL pollution reductions.																										
<u>Cooperating Agencies</u> County of Los Angeles Public NA NA NA NA	<u>Location Description</u> Within an expansion of Memorial Park at Colorado Avenue and 14th Street, central part of City, with upstream watershed extending into the City of Los Angeles.	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 3000000 Upper Estimated Total Capital Cost (\$): 4500000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): 5000 Design Life of Project (years): 30																									
<u>Associated Watersheds</u> SMBW NA NA	<u>Project Source(s)</u> Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005) Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005) City of Santa Monica Watershed Management Plan NA		<u>Sub-region(s)</u> SO_BAY NA NA																								
<u>Is part of larger program?</u> TRUE																											
<u>Readiness to Proceed</u>																											
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Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 5/15/2010 Proposed Completion Date: 10/15/2010 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u> Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: PRI Ground Water Protection or Improvement: PRI Other:		<u>Water Quality Benefits</u> Treatment Technology: Separation, screening, media-filtration Treatment Capacity (MGD): 250000 <u>Targeted Contaminants</u> Metal: TRUE Pathogens: TRUE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: TRUE Description: Oil and Grease																									

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	PRI
Increased Water Conservation:	PRI
Increased Water Recycling:	PRI
Increased Groundwater Management:	PRI
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	2500
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
Soil Type	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	300
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	2

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	TRUE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		

Type of supply/demand reduction: NONPOT
 Description:

Annual Yield of Supply (AFY): 300

Availability by water-year type (AFY)

Average Year:	0
Dry Year:	0
Wet Year:	0
Other:	0
Description:	NA

Availability by season:

Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	NA
Total Project Acres:	0

Other Benefits

Removal of most runoff pollutants from dry weather runoff and a significant portion of wet weather runoff, protecting water quality of the Santa Monica Bay. Reuse of dry and wet weather runoff. This project location is in an area, Kenter Canyon storm drain, that has daily dry weather runoff of some 300,000 gallons per day.

Dominant existing land use type:	OTHR
Residential and commercial	
Upstream/downstream land use type:	OTHR
Residential and commercial	

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	N
Disadvantaged Community Participation:	N
Organization:	

Project # 74 Yukon Well Field Development

City of Torrance
20500 Madrona Avenue Torrance, CA 90503

Rob Beste
310-781-6900
rbeste@torrnnet.com

NA

Partnering Agency: Metropolitan Water District

<u>Project Description</u>																											
The project will construct four wells to reduce dependence on imported MWD water. The project will include land acquisition, well, treatment, and distribution construction.																											
<u>Project Integration</u>		<u>Project Need</u>																									
		The City of Torrance currently has only one operating water well. The other City of Torrance water wells have been shut down due to expansion of the saline plume in central Torrance and high organics in southern Torrance. The result is that Torrance has to purchase approximately 5000 acre-feet of water imported by the Metropolitan Water District. This lack of diversity in water resources limits Torrance ability to provide drinking water and water to fight fires in the case of a large earthquake.																									
<u>Cooperating Agencies</u>		<u>Location Description</u>																									
NA NA NA NA NA		The area for well construction will be in the City of Torrance along Yukon Avenue north of the 405 Freeway and south of Artesia Boulevard. The project is in the South Bay Sub-region of the Greater Los Angeles County Region.																									
<u>Associated Watersheds</u>		<u>Project Cost Estimate</u>																									
WB NA NA		Lower Estimated Total Capital Cost (\$): 10000000 Upper Estimated Total Capital Cost (\$): 15000000 Of total cost, estimated cost for land purchase/easement (\$): 2000000 Annual OM Cost (\$): 1500000 Design Life of Project (years): 20																									
<u>Is part of larger program?</u>		<u>Project Source(s)</u>																									
FALSE		City of Torrance Urban Water Management Plan and the Torrance Municipal Water Service Agency of Torrance Urban Water Management Plan and the Torrance Municipal Water Service Agency																									
		<u>Sub-region(s)</u>																									
		SO_BAY NA NA																									
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Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 1/1/2009 Proposed Completion Date: 1/1/2012 Ready For Construction Bid: N/A																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:		Treatment Technology: Disinfection Treatment Capacity (MGD): 4.5 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: NA																									

Water Supply Objectives

Reduced Reliance Imported Water: PRI
Increased Water Supply Reliability: PRI
Increased Operational Flexibility: PRI
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA

Other: []

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: TRUE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE

Other: [NA]

Type of supply/demand reduction: POT

Description: []

Annual Yield of Supply (AFY): [5000]

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0

Description: [NA]

Availability by season:

Summer: TRUE Spring TRUE
Fall: TRUE Winter TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0

Description: NA

Total Project Acres: 0

Other Benefits

This project would allow Torrance to reduce imported water purchases by approximately 5000 acre-feet a year. This lack of diversity in water resources limits Torrance ability to provide drinking water and water to fight fires in the case of a large earthquake.

Dominant existing land use type: OTHR

[Land currently leased for landscape nursery]

Upstream/downstream land use type: RES

[]

Addresses Environmental Justice issues: NS

Within Disadvantaged Community: NS

Disadvantaged Community Participation: NS

Organization: [NA]

Project # 78 Conversion of Amie Storm Drain Sump Tributary to Santa Monica

City of Torrance, SMBBB TMDL Jurisdictional Group
20500 Madrona Avenue Torrance, CA 90503

Rob Beste
310-781-6900
rbeste@torrnet.com

NA

Partnering Agency: Jurisdictional Groups 5 & 6 (Redo)

<u>Project Description</u>																										
<p>This project would convert the Amie sump into an infiltration or bio-filtration, or passive wetlands treatment BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would install SCADA controlled flow control valves to divert dry season run off to the Dominguez Channel tributary area and help prevent over flows at the stormwater diversion bump station for the Herondo Drain. This project would install trash screens to collect all trash before entering the bottom of the basin and increasing the bacteria loads.</p>																										
<u>Project Integration</u> Groups 5 & 6 SMBBB TMDL Implementation Plan	<u>Project Need</u> The Regional Water Quality Control Board has adopted bacteria TMDL for the Santa Monica Bay. This project will provide infiltration to prevent run-off during dry weather from flusing bacteria into the Santa Monica Bay during dry weather. This project will provide passive wetlands treatment to reduce bacteria loading during the wet season. This project will install trash screens to reduce bacteria loads year round.																									
<u>Cooperating Agencies</u> County of Los Angeles NA NA NA NA	<u>Location Description</u> The Amie sump is tributary to 396 acres of Torrance and is tributary to the Santa Monica Bay. This drainage area is generally described as north of Torrance Boulevard, west of Prairie Avenue, east of Hawthorne Blvd and south of Del Amo Blvd.	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 2000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 5000 Design Life of Project (years): 20																								
<u>Associated Watersheds</u> SMBW WB NA	<u>Project Source(s)</u> Santa Monica Bay Beaches Bacteria Total Maximum Daily Load Implementation Santa Monica Bay Beaches Bacteria Total Maximum Daily Load Implementation Jurisdictional Groups 5 and 6 NA	<u>Sub-region(s)</u> SO_BAY NA NA																								
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Funding	NOT_INIT	1/1/1753 12:00:																								
Proposed Start Date: 1/1/2008	Proposed Completion Date: 1/1/2009	Ready For Construction Bid: N/A																								
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																								
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: SEC Ground Water Protection or Improvement: SEC Other:	Treatment Technology: Treatment Capacity (MGD): -1 <u>Targeted Contaminants</u> Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: Area Drained 396 acres and/or Volume Treated 5.1 mgd																									

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	SEC
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	SEC
Reduced Sea Water Intrusion:	SEC
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	396
Detention Basin Area (acres):	3
Max Operational Depth (ft):	30
% Wetlands	30
Soil Type	NA
Method and Recharge (AFY):	infiltration wells
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	SEC
Restore/Protect Habitat:	SEC
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	135
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE

Other: mitigate saline plume

Type of supply/demand reduction: NA

Description: NA

Annual Yield of Supply (AFY): 135

Availability by water-year type (AFY)

Average Year:	135
Dry Year:	0
Wet Year:	135
Other:	0

Description: NA

Availability by season:

Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	2
Riparian Habitat Acres:	2
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	4.3 acres created/restored
Total Project Acres:	4

Other Benefits

This project will treat stormwater for bacteria during the wet season. This project will infiltrate or divert dry season run off and reduce the bacteria load on the Santa Monica Bay. This project will reduce flows in the Herondo Drain and reduce flows and chances of overflows for the Herondo Drain stormwater diversion pump station. This project will increase infiltration and help mitigate the saline plume. This project will improve animal habitat.

Dominant existing land use type:	PUB
Upstream/downstream land use type:	RES

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	N
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 80 Conversion of Henrietta Storm Drain Sump Tributary to Santa

City of Torrance, SMBBB TMDL Jurisdictional Group
20500 Madrona Avenue Torrance, CA 90503

Rob Beste
310-781-6900
rbeste@torrnnet.com

NA

Partnering Agency: County of Los Angeles, Jurisdiction

<u>Project Description</u>																											
<p>This project would convert the Henrietta sump into an infiltration, passive wetlands and/or bio-filtration BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat and access for public use. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would also install trash screens to improve trash removal and protect the wetlands. An existing abandoned oil pump island would be modified to provide public access and wild life viewing. Proposed infiltration wells would eliminate dry weather run off from this drainage area and help mitigate the saline plume.</p>																											
<u>Project Integration</u> Groups 5 & 6 Bacteria TMDL Implementation Plan		<u>Project Need</u> The Regional Water Quality Control Board has adopted a bacteria TMDL for the Santa Monica Bay. The Henrietta Detention Basin is tributary to the Los Angeles County Herondo Drain that experiences bacteria exceedences. This project is needed to comply with the bacteria TMDL and would help mitigate the saline plume with increased groundwater infiltration. The Henrietta Detention Basin has large open spaces available for habitat restoration. The City also proposed improvements to an old oil pump island in the middle of the basin for better public access that would have no impact on the open spaces habitat.																									
<u>Cooperating Agencies</u> County of Los Angeles Jurisdictional Groups 5 & 6 Jurisdictional Groups 5 & 6 NA NA	<u>Location Description</u> The Henrietta sump is tributary to 594 acres of Torrance and is tributary to the Santa Monica Bay. This drainage area is generally described as north of Torrance Boulevard, west of Hawthorne Blvd., east of the westerly City boundary and south of Del	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 5000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 5000 Design Life of Project (years): 20																									
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Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 1/1/2008 Proposed Completion Date: 1/1/2009 Ready For Construction Bid: N/A																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: SEC Ground Water Protection or Improvement: SEC Other:		Treatment Technology: NA Treatment Capacity (MGD): 0 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: Area Drained 594 acres and/or Volume Treated mgd																									

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	SEC
Reduced Sea Water Intrusion:	SEC
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	594
Detention Basin Area (acres):	8
Max Operational Depth (ft):	20
% Wetlands	50
Soil Type	NA
Method and Recharge (AFY):	infiltration wells
Estimated Annual Inflow (AFY):	101
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	PRI
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	SEC
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	101
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		

Type of supply/demand reduction: NA
 Description: NA

Annual Yield of Supply (AFY): 0

Availability by water-year type (AFY)

Average Year:	0
Dry Year:	0
Wet Year:	0
Other:	0
Description:	NA

Availability by season:

Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	4
Riparian Habitat Acres:	4
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	38.8 acres created/restored
Total Project Acres:	8

Other Benefits

This project will reduce stormwater run off to the Santa Monica Bay and thereby reduce bacteria loads to the bay by using passive wetlands treatment and infiltration. Increased infiltration will help to mitigate the saline plume and reduce pumping from the Herondo Drain stormwater diversion pump station. Habitat restoration of the basin is included. The project will also install trash screens to improve water quality and habitat. An existing abandoned oil pump island will be converted into a wildlife viewing area and provide some public access to the basin.

Dominant existing land use type:	PUB
Upstream/downstream land use type:	RES

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 89 Dominguez Channel Habitat Restoration

Coastal Conservancy

Christopher Kroll
510-286-4169
ckroll@scc.ca.gov

Partnering Agency:

<u>Project Description</u>				
Habitat creation/restoration in and along the Dominguez Channel				
<u>Project Integration</u>		<u>Project Need</u>		
<u>Cooperating Agencies</u>		<u>Location Description</u>		
		15 miles long from City of Hawthorne to the East Basin of the Port of Los Angeles		
<u>Associated Watersheds</u> NA NA NA		<u>Project Cost Estimate</u>		
		Lower Estimated Total Capital Cost (\$): -1		
		Upper Estimated Total Capital Cost (\$): -1		
<u>Is part of larger program?</u> FALSE		Of total cost, estimated cost for land purchase/easement (\$): -1		
		Annual OM Cost (\$): -1		
		Design Life of Project (years): -1		
		<u>Project Source(s)</u>		
		Dominguez Watershed Management Master Plan		
		Dominguez Watershed Management Master Plan		
		<u>Sub-region(s)</u>		
		SO_BAY		
		NA		
		NA		
<u>Readiness to Proceed</u>				
		<u>Item</u>	<u>Status</u>	
		<u>Date</u>		
		Conceptual Plans	NOT_INIT	1/1/1753 12:00:
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	Funding	NOT_INIT	1/1/1753 12:00:	
Proposed Start Date: 01/01/1753				
Proposed Completion Date: 01/01/1753				
Ready For Construction Bid: N/A				
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>		
Improve Storm Water Quality:	NA	Treatment Technology:		
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 0		
Receiving Water Body Qual. Improvement:	NA	<u>Targeted Contaminants</u>		
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE		
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: FALSE Other: FALSE		
Other:		Description:		

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	<input type="text"/>

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA
	<input type="text"/>

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE

Other:

Type of supply/demand reduction: NA

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year:	0
Dry Year:	0
Wet Year:	0
Other:	0

Description:

Availability by season:

Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0

Multiple Use/Recreation Area

Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0

Description:

Total Project Acres: 0

Other Benefits

Dominant existing land use type: NA

Upstream/downstream land use type: NA

Addresses Environmental Justice issues: NS

Within Disadvantaged Community: NS

Disadvantaged Community Participation: NS

Organization:

Project # 90 Ballona Wetlands Restoration

Coastal Conservancy, Dept. Fish and Game
 Jack Liebster Coastal Conservancy 1330
 Broadway, 13th floor Oakland, CA 94612

Jack Liebster
 510-286-0317
 jliebster@scc.ca.gov

<http://www.scc.ca.gov/Ballona/index.html>

Partnering Agency: CA Dept. of Fish and Game; CA S

Project Description																									
<p>The project is currently in the feasibility stage, with a broad range of potential restoration scenarios being evaluated for their hydrologic, water quality, habitat, recreational, flood control and economic benefits and costs. These alternatives range from increasing water flow to existing and potential wetland areas with little grading to significant excavation of filled areas and modification of levees to dramatically increase the wetted area with both full tidal and muted tidal water regimes and reconnect Ballona Creek to its historic floodplain. Increases to the tidal prism could provide increased flushing of Ballona Creek and areas of Marina del Rey. Plans include construction of treatment wetlands at locations where tributary drainages enter the project area.</p>																									
Project Integration SMBay Restor.Plan;BCERS	Project Need Restore the water quality, hydrologic and habitat functions of the Lower Ballona Creek/ Ballona Wetlands ecosystem to support habitat, provide public open space, increase opportunities for water related recreational uses, maintain and enhance flood control capabilities, improve ecosystem function in the larger watershed context, incorporating adjacent and ecologically related resources such as the waters of Ballona Creek, Marina Del Rey, Ballona Lagoon, and the Venice Canals. Increased surface water circulation improve water quality. Habitat improvements will enhance estuarine dependent plants and animals, including rare, endangered and threatened species. New public access will provide public open space and increase opportunities for water related recreational uses, potentially including fishing, boating, cycling, walking, birdwatching and																								
Cooperating Agencies Coastal Conservancy A Department of Fish and Gam A Department of Fish and Gam CA State Lands Commission Monica Bay Restoration Comm	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Location Description</th> <th style="text-align: center;">Project Cost Estimate</th> </tr> </thead> <tbody> <tr> <td>600 acres of historic wetlands in the former floodplain on both sides of Lower Ballona Creek between Lincoln Blvd and the Playa Del Rey/Marina Del Rey areas.</td> <td> Lower Estimated Total Capital Cost (\$): 150000000 Upper Estimated Total Capital Cost (\$): 240000000 Of total cost, estimated cost for land purchase/easement (\$): 140000000 Annual OM Cost (\$): 250000 Design Life of Project (years): 100 </td> </tr> </tbody> </table>	Location Description	Project Cost Estimate	600 acres of historic wetlands in the former floodplain on both sides of Lower Ballona Creek between Lincoln Blvd and the Playa Del Rey/Marina Del Rey areas.	Lower Estimated Total Capital Cost (\$): 150000000 Upper Estimated Total Capital Cost (\$): 240000000 Of total cost, estimated cost for land purchase/easement (\$): 140000000 Annual OM Cost (\$): 250000 Design Life of Project (years): 100																				
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Proposed Start Date: 8/1/2009 Proposed Completion Date: 10/30/2009 Ready For Construction Bid: 1-3 Years																									
Water Quality Objectives	Water Quality Benefits																								
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: PRI Ground Water Protection or Improvement: SEC Other:	Treatment Technology: Treatment wetlands; expand tidal pris Treatment Capacity (MGD): 580 Targeted Contaminants Metal: TRUE Pathogens: FALSE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: TRUE Description: urban runoff; marine harbor pollutants																								

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	SEC
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	0
Estimated Annual Outflow (AFY):	0

Beneficial Use Objectives

Create/Enhance Wetlands:	PRI
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	900
Max Conveyance Capacity:	0
Flood Protection Level:	100
Acres Benefitting:	160
Other:	0
Estimated Annual Flood Reduction Value:	1000000
Acreeage Required for Implementation:	600

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
GroundwaterTreatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		
Type of supply/demand reduction:	NA		
Description:	NA		
Annual Yield of Supply (AFY):	0		
<u>Availability by water-year type (AFY)</u>			
Average Year:	0		
Dry Year:	0		
Wet Year:	0		
Other:	0		
Description:	NA		
<u>Availability by season:</u>			
Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE
Has potential to displace demands on Bay/Delta/Estuary system:	NS		

Beneficial Use Benefit

Non-Treatment Wetland Acres:	200
Treatment Wetland Acres:	300
Riparian Habitat Acres:	60
Open Space Acres:	20
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	4
Multiple Sport Athletics Acres:	0
Other Recreation Acres	1
Pedestrian Trail Acres	5
Equestrian Trail Acres	0
Other Acres	5
Description:	Wildlife viewing; fishing, boating
Total Project Acres:	600

Other Benefits

Increase estuarine, bird and fish habitat in Ballona Creek/Ballona Wetlands system; provide greater tidal prism to improve surface water circulation, tidal exchange and flushing, producing water quality benefits in Lower Ballona Creek, Marina del Rey and Santa Monica Bay waters; reconnect Ballona Creek to historic floodplain and provide enhanced flood management benefits; support recovery of rare, endangered and special status species at last coastal wetland restoration site available in LA County; provide readily accessible open space and new recreational benefits in a

Dominant existing land use type:	OTHR
Dredge spoil fill area; degraded wetland in urban area	
Upstream/downstream land use type:	OTHR
Commercial, res., industrial urban areas and transportati	

Addresses Environmental Justice issues:	Y
Within Disadvantaged Community:	Y
Disadvantaged Community Participation:	Y
Organization:	Tongva (Gabrieleno) Tribe; Baldwin Hills com

Project # 103 Manhattan Well Field Rehabilitation

LADWP
 Los Angeles Department of Water and Power
 111 North Hope Street, Room 1450 Los
 Angeles, CA 90012

Mario Acevedo
 213-367-0932
 mario.acevedo@ladwp.com

Partnering Agency: Water Replenishment District

<u>Project Description</u>																													
<p>The project consists of the construction of six new production wells at LADWP's Manhattan Well Field in the Central Basin to increase our total groundwater extraction capacity from 24 to 34 cfs. This will improve our operational reliability and flexibility and allow LADWP to enter into a conjunctive use program with the Water Replenishment District in the range of 15,000 - 30,000 acre-feet. Currently, the structural integrity of the existing forebay and pump station are being evaluated to determine their life expectancy. Groundwater quality has not been an issue and no special groundwater treatment is expected at this time. The nature of the conjunctive use program will need to be developed in conjunction with the Water Replenishment District; however, it is expected that LADWP will be able to store water through in-lieu practices then extract the water as needed in a manner that will not cause harm to other water right holders in the basin.</p>																													
<u>Project Integration</u>		<u>Project Need</u>																											
		<p>The Central Groundwater Basin currently has 300,000+ acre-feet of available storage space. This storage space represents a significant opportunity to develop conjunctive use programs to maximize the utility of this valuable water resource. LADWP has an annual water right of 15,000 acre-feet in the Central Basin. LADWP is currently planning to increase its groundwater extraction capacity in the Central Basin and would like to enter into a conjunctive use storage program with the Water Replenishment District to store between 15,000 and 30,000 acre-feet of water for future extraction. By storing water in the basin for use in an emergency or drought, LADWP will be better utilizing its local groundwater resources for the benefit of the City of Los Angeles and the Southern California Region. Improved management of our local water resources is necessary to meet future water</p>																											
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>																											
Water Replenishment District	City of Los Angeles owned site located approximately at the intersection of Gage Ave. and Western Ave.	<p>Lower Estimated Total Capital Cost (\$): 11000000 Upper Estimated Total Capital Cost (\$): 15000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 450000 Design Life of Project (years): 30</p>																											
<u>Associated Watersheds</u>	<u>Project Source(s)</u>	<u>Sub-region(s)</u>																											
CB NA NA	Hydraulic Analysis to Increase Central Basin Groundwater Supply, 2006 LADWP	SO_BAY																											
<u>Is part of larger program?</u>	<u>Project Source(s)</u>	<u>Sub-region(s)</u>																											
FALSE	Hydraulic Analysis to Increase Central Basin Groundwater Supply, 2006 LADWP	NA																											
<u>Readiness to Proceed</u>																													
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Construction Drawings	IN_PROC	3/1/2008 0:00																											
Funding	IN_PROC	7/1/2007 0:00																											
<p>Proposed Start Date: 10/1/2008 Proposed Completion Date: 12/1/2009 Ready For Construction Bid: 1-3 Years</p>																													
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																											
<p>Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:</p>		<p>Treatment Technology: Treatment Capacity (MGD): 0 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description:</p>																											

Water Supply Objectives

Reduced Reliance Imported Water: PRI
 Increased Water Supply Reliability: SEC
 Increased Operational Flexibility: PRI
 Increased Water Conservation: NA
 Increased Water Recycling: NA
 Increased Groundwater Management: SEC
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 SoilType: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: TRUE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: POT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 5000
 Dry Year: 10000
 Wet Year: 0
 Other: 3000

Description:

Availability by season:

Summer: TRUE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0

Description:
 Total Project Acres: 0

Other Benefits

Increasing our groundwater production capacity from 24 to 34 cfs will enhance our operational reliability and flexibility; and most importantly, allow LADWP to enter into a conjunctive use program with the Water Replenishment District to store between 15,000 and 30,000 acre-feet in the Central Basin for future extraction. The Central Basin has 300,000+ acre-feet of available storage space. Improved management of our local water resources is necessary to meet future water demands and to reduce the regions reliance on imported supplies. By storing up to 30,000 acre-feet, LADWP will

Dominant existing land use type: IND

Upstream/downstream land use type: IND

Addresses Environmental Justice issues: N

Within Disadvantaged Community: Y

Disadvantaged Community Participation: N

Organization:

Project # 111 Exposition Green Corridor

Light Rail for Cheviot
 10576 Troon Avenue Los Angeles, CA 90064-4436

Jonathan Weiss
 310-558-0484
 jw@lojw.com

http://www.lightrailforcheviot.org/green.htm

Partnering Agency: MTA; City of LA; LA Rec & Parks;

<u>Project Description</u>																											
Reconfiguring 20 acres of rail right of way to redirect perennial Stone Canyon Creek and storm drains into swale, detention basins, treatment wetlands, and micro-pools for cleaning and conserving dry weather and storm flow on unused railway right of way consistent with potential transit and parkland construction.																											
<u>Project Integration</u>		<u>Project Need</u>																									
		This project will help achieve TMDLs for Ballona Creek. It will also create a mile-long parkway featuring native trees and shrubs, walk and bike paths, and bringing a natural amenity to an urbanized area. The Exposition Right of Way (ROW) is a choke point in the Ballona Creek Watershed. Four drains crossing the ROW carry run-off from Bel-Air, Westwood Village, Rancho Park, Cheviot Hills, half of Century City, and all of Twentieth Century Fox unfiltered into Ballona Creek. (Fox has the heaviest pollutant load per the 2006 LA County BMP Methodology Study.) The Military Avenue storm drain (at the west end of the ROW) conveys a perennial creek â€” Stone Canyon Creek. Optimally, this unusually wide 20 acre segment of the ROW would be used for a water quality project, habitat, transportation (under study by MTA), recreation (bike, walking &																									
<u>Cooperating Agencies</u>		<u>Location Description</u>																									
		Exposition Right of Way between 10 freeway and Military Avenue in Upper Ballona Creek Watershed, including subwatershed WMG_1_347474.																									
<u>Associated Watersheds</u>		<u>Project Cost Estimate</u>																									
BCW NA NA		Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 10000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																									
<u>Is part of larger program?</u>		<u>Project Source(s)</u>																									
FALSE		Ballona Watershed TMDL Ballona Watershed TMDL																									
		<u>Sub-region(s)</u>																									
		SO_BAY NA NA																									
<u>Readiness to Proceed</u>																											
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Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 11/9/2009 Proposed Completion Date: 7/1/2013 Ready For Construction Bid: N/A																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:		Treatment Technology: Bioswales, detention/retention basins, Treatment Capacity (MGD): 0 Targeted Contaminants Metal: TRUE Pathogens: FALSE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: FALSE Description:																									

Water Supply Objectives

Reduced Reliance Imported Water: SEC
 Increased Water Supply Reliability: NA
 Increased Operational Flexibility: NA
 Increased Water Conservation: SEC
 Increased Water Recycling: SEC
 Increased Groundwater Management: PRI
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 10000
 Detention Basin Area (acres): 2
 Max Operational Depth (ft): 3
 % Wetlands: 100
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: SEC
 Create Public Access/Rec/Open Space: PRI
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: TRUE
 Groundwater Treatment: FALSE Recycled Water: FALSE
 Reclaimed Groundwater: FALSE Conservation: TRUE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: OTHR

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 0
 Dry Year: 0
 Wet Year: 0
 Other: 0

Description:

Availability by season:

Summer: TRUE Spring TRUE
 Fall: TRUE Winter TRUE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 2
 Riparian Habitat Acres: 4
 Open Space Acres: 3

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 2
 Pedestrian Trail Acres: 2
 Equestrian Trail Acres: 0
 Other Acres: 1

Description: Light Rail

Total Project Acres: 20

Other Benefits

Water quality improvement to achieve TMDLs for Ballona Creek as it feeds Santa Monica Bay. Water recharge and conservation. Maintaining open space while implementing habitat restoration and providing recreational, educational and transportation facilities.

Dominant existing land use type: PUB

Upstream/downstream land use type: RES

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: N

Organization:

Project # 113 Dominguez Channel Greenway

Los Angeles County Flood Control District
NA

Vik Bapna
626-458-4363
vbapna@ladpw.org

NA Partnering Agency:

Project Description

Development of a native landscaped greenway and bikeway/pedestrian trail along the Dominguez Channel. 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.

<u>Project Integration</u>	<u>Project Need</u> The project will revitalize the Flood Control District rights of way along the Dominguez Channel in the Cities of Gardena, Hawthorne, and the unincorporated El Camino Village Area. The project is consistent with the Dominguez Watershed Management Master Plan (DWMMP) goal of developing a continuous greenway, providing recreational elements, and restoring the natural environment along the Channel.
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<u>Cooperating Agencies</u> NA NA NA NA	<u>Location Description</u> Dominguez watershed	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 2500000 Upper Estimated Total Capital Cost (\$): 4000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 130000 Design Life of Project (years): 25	
<u>Associated Watersheds</u> DCW NA NA	<u>Project Source(s)</u> Dominguez Watershed Management Master Plan Dominguez Watershed Management Master Plan		<u>Sub-region(s)</u> SO_BAY NA NA
<u>Is part of larger program?</u> FALSE			

<u>Readiness to Proceed</u>																											
NA																											
Proposed Start Date: 1/1/2009 Proposed Completion Date: 1/1/2010 Ready For Construction Bid: 1-3 Years	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>IN_PROC</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>	<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	1/1/2001 0:00	Land Acquisition	NA	1/1/1753 12:00:	Preliminary Plans	IN_PROC	1/1/2001 0:00	CEQA/NEPA	NA	1/1/1753 12:00:	Permits	NA	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:		
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CEQA/NEPA	NA	1/1/1753 12:00:																									
Permits	NA	1/1/1753 12:00:																									
Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									

<u>Water Quality Objectives</u>	<u>Water Quality Benefits</u>
Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:	Treatment Technology: NA Treatment Capacity (MGD): 0 <u>Targeted Contaminants</u> Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: NA

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
Soil Type	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		
Type of supply/demand reduction:	NA		
Description:	NA		
Annual Yield of Supply (AFY):	0		
Availability by water-year type (AFY)			
Average Year:	0		
Dry Year:	0		
Wet Year:	0		
Other:	0		
Description:	NA		
Availability by season:			
Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE
Has potential to displace demands on Bay/Delta/Estuary system:	NS		

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	4
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	2
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	1
Equestrian Trail Acres	0
Other Acres	1
Description:	Recreation
Total Project Acres:	8

Other Benefits

Removal of exotic, invasive species and native landscaping improvements will provide aesthetic and passive recreational benefits to the bikeway/pedestrian trail users, help prevent soil erosion and the deposition of dirt/debris along the trail and into the channel, and also support a diversity of plants and birds. Landscape improvements will also increase the viability, diversity, health and function of ecological systems of the watershed while improving visual resources and enhancing the recreational pedestrian/bicycle trail in the community. Enhancing the open space and

Dominant existing land use type:	NA
Upstream/downstream land use type:	NA
Other:	NA

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 116 West Coast Basin Seawater Barrier Telemetry System

Los Angeles County Flood Control District

NA

Eric Batman

626-458-6137

ebatman@ladpw.org

NA

Partnering Agency:

<u>Project Description</u>																											
This project involves the installation of equipment to remotely monitor injection wells to improve the overall effectiveness and efficiency in the operation of the West Coast Basin Seawater Barrier.																											
<u>Project Integration</u>		<u>Project Need</u>																									
This project compliments other groundwater and conjunctive use projects, and can be integrated with other similar projects utilizing a telemetry system.		NA																									
<u>Cooperating Agencies</u>		<u>Location Description</u>																									
NA NA NA NA NA		The West Coast Basin Seawater Barrier is located within the Ballona Creek Watershed, and runs through the cities of El Segundo, Manhattan Beach, Redondo Beach, and Torrance.																									
<u>Associated Watersheds</u>		<u>Project Cost Estimate</u>																									
NA NA NA		Lower Estimated Total Capital Cost (\$): 1000000 Upper Estimated Total Capital Cost (\$): 10000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																									
<u>Is part of larger program?</u>		<u>Project Source(s)</u>																									
FALSE		er Replenishment District of Southern Californiaâ€™s Ground Water Manag er Replenishment District of Southern Californiaâ€™s Ground Water Manag																									
		<u>Sub-region(s)</u>																									
		SO_BAY NA NA																									
<u>Readiness to Proceed</u>																											
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Preliminary Plans</td> <td>COMP</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>COMP</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Construction Drawings</td> <td>COMP</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	1/1/2001 0:00	Land Acquisition	NOT_INIT	1/1/2001 0:00	Preliminary Plans	COMP	1/1/2001 0:00	CEQA/NEPA	COMP	1/1/2001 0:00	Permits	NOT_INIT	1/1/2001 0:00	Construction Drawings	COMP	1/1/2001 0:00	Funding	NOT_INIT	1/1/2001 0:00
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Construction Drawings	COMP	1/1/2001 0:00																									
Funding	NOT_INIT	1/1/2001 0:00																									
Proposed Start Date: 1/1/2007 Proposed Completion Date: 1/1/2008 Ready For Construction Bid: N/A																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other: NA		Treatment Technology: NA Treatment Capacity (MGD): 0 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: NA																									

Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA
Other: NA

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE

Other: NA

Type of supply/demand reduction: NA

Description: 1,000+

Annual Yield of Supply (AFY): 1000

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0

Description: NA

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0
Description: NA

Total Project Acres: 0

Other Benefits

NA

Dominant existing land use type: NA
NA
Upstream/downstream land use type: NA
NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 137 Silver Lake Reservoir wetlands and park conversion

NA
NA

Jessica Hall
213-576-6687
jhall@waterboards.ca.gov

NA

Partnering Agency:

<u>Project Description</u>																															
Convert reservoir from Emergency Supply to recreational wetland supplied by reclaimed water and seasonal runoff. Remove fences and provide trails and overlooks. Open up meadow as park. Project will decrease consumption of imported water.																															
<u>Project Integration</u> Collective goal of this and other Ballona habitat programs is to facilitate habitat connectivity through a matrix of public and private property from the Hollywood Hills/Santa Monica Mountains to Ballona Creek and Wetlands.	NA	<u>Project Need</u>																													
<u>Cooperating Agencies</u> NA NA NA NA	<u>Location Description</u> Ballona Creek Wshd	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 35000000 Upper Estimated Total Capital Cost (\$): 60000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																													
<u>Associated Watersheds</u> NA NA NA	<u>Project Source(s)</u> conforms to goals of Ballona Creek Watershed Mgmt Plan conforms to goals of Ballona Creek Watershed Mgmt Plan	<u>Sub-region(s)</u> SO_BAY NA NA																													
<u>Is part of larger program?</u> FALSE	NA NA																														
<u>Readiness to Proceed</u>																															
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>																															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Proposed Start Date:</td> <td>1/1/2006</td> </tr> <tr> <td>Proposed Completion Date:</td> <td>1/1/2007</td> </tr> <tr> <td>Ready For Construction Bid:</td> <td>N/A</td> </tr> </table>	Proposed Start Date:	1/1/2006	Proposed Completion Date:	1/1/2007	Ready For Construction Bid:	N/A	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> </tbody> </table>	<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	NOT_INIT	1/1/2001 0:00	Land Acquisition	NOT_INIT	1/1/2001 0:00	Preliminary Plans	NOT_INIT	1/1/2001 0:00	CEQA/NEPA	NOT_INIT	1/1/2001 0:00	Permits	NOT_INIT	1/1/2001 0:00	Construction Drawings	NOT_INIT	1/1/2001 0:00	Funding	NOT_INIT	1/1/2001 0:00
Proposed Start Date:	1/1/2006																														
Proposed Completion Date:	1/1/2007																														
Ready For Construction Bid:	N/A																														
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Permits	NOT_INIT	1/1/2001 0:00																													
Construction Drawings	NOT_INIT	1/1/2001 0:00																													
Funding	NOT_INIT	1/1/2001 0:00																													
<u>Water Quality Objectives</u> Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other: NA	<u>Water Quality Benefits</u> Treatment Technology: NA Treatment Capacity (MGD): 0 <u>Targeted Contaminants</u> Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE <u>Description:</u> Approximately 100 acres of open reservoir can be converted to wetland, capturing and treating approx 250 acres of runoff from low/med density housing																														

Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA
Other: NA

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE

Other: NA
Type of supply/demand reduction: NA
Description: Reduces consumption of imported water; reuses reclaimed water.

Annual Yield of Supply (AFY): 0

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0
Description: NA

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0

Description: Integrates habitat with existing open space

Total Project Acres: 0

Other Benefits

NA

Dominant existing land use type: NA
NA
Upstream/downstream land use type: NA
NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 195 Outdoor Community Living Rooms

The Verde Coalition

Jessica Hall
213-576-6687
jhall@waterboards.ca.gov

Partnering Agency:

<u>Project Description</u>			
Acquisitions and development of mini parks in densely populated working class neighborhoods that serve dual function: to create community socializing space while providing environmental benefits of capturing & filtering runoff, & utilizing native and low-water using plants. Ten Living Rooms are currently in progress.			
<u>Project Integration</u>		<u>Project Need</u>	
These miniparks could be located in areas of concentrated runoff, have cisterns, or have roof drains directed towards them for stormwater capture. Bioswales and other BMPs can be integrated into project design. These small parks can also become neighborhood demonstrations of native landscaping and water conservation techniques.			
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>	
	The Verde Coalition has a goal of creating 1,000 Outdoor Community Living Rooms within the City of Los Angeles over the next few years. Please note that the lat/long does not refer to a specific site.	Lower Estimated Total Capital Cost (\$): 30000000 Upper Estimated Total Capital Cost (\$): 60000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1	
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>
NA NA NA	Verde Coalition position paper 2005-2006 Verde Coalition position paper 2005-2006		UP_LA_RVR SO_BAY LOW_LA_RVR
<u>Is part of larger program?</u>			
FALSE			
<u>Readiness to Proceed</u>			
		<u>Item</u>	<u>Status</u>
		Conceptual Plans	NOT_INIT 1/1/1753 12:00:
		Land Acquisition	NOT_INIT 1/1/1753 12:00:
		Preliminary Plans	NOT_INIT 1/1/1753 12:00:
		CEQA/NEPA	NOT_INIT 1/1/1753 12:00:
		Permits	NOT_INIT 1/1/1753 12:00:
		Construction Drawings	NOT_INIT 1/1/1753 12:00:
		Funding	NOT_INIT 1/1/1753 12:00:
Proposed Start Date:	01/01/1753		
Proposed Completion Date:	01/01/1753		
Ready For Construction Bid:	N/A		
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>	
Improve Storm Water Quality:	NA	Treatment Technology:	
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 0	
Receiving Water Body Qual. Improvement:	NA	<u>Targeted Contaminants</u>	
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE	
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: FALSE Other: FALSE	
Other:		Description: modest improvements will vary by site	

Water Supply Objectives

Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	<input type="text"/>

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA
	<input type="text"/>

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE

Other:

Type of supply/demand reduction: NA

Description: varies

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year:	0
Dry Year:	0
Wet Year:	0
Other:	0
Description:	<input type="text"/>

Availability by season:

Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	100 mini parks
Total Project Acres:	0

Other Benefits

Dominant existing land use type:	NA
	<input type="text"/>
Upstream/downstream land use type:	NA
	<input type="text"/>

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	<input type="text"/>

Project # 199 Community Gardens

Verde Coalition
NA

Jessica Hall
213-576-6687
jhall@waterboards.ca.gov

NA Partnering Agency:

<u>Project Description</u>																											
Community Gardens can be developed in association with the Community Living Rooms, or other park lands. They can serve as part of a neighborhood-based BMP, with cisterns or biofiltration devices filtering runoff. It is possible they could also be integr																											
<u>Project Integration</u> NA	<u>Project Need</u> NA																										
<u>Cooperating Agencies</u> NA NA NA NA	<u>Location Description</u> Acquisition of land and conversion to permanent community gardens to meet following objectives: 1)sustainable food source focused on low-income communities, though not exclusively so; 2) preserve undeveloped land for infiltration and capture of rainfall.	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 50000000 Upper Estimated Total Capital Cost (\$): 100000000 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																									
<u>Associated Watersheds</u> NA NA NA	<u>Project Source(s)</u> NA NA NA NA		<u>Sub-region(s)</u> SO_BAY NA NA																								
<u>Is part of larger program?</u> FALSE																											
<u>Readiness to Proceed</u>																											
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th><u>Item</u></th> <th><u>Status</u></th> <th><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Preliminary Plans</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/2001 0:00</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	NOT_INIT	1/1/2001 0:00	Land Acquisition	NOT_INIT	1/1/2001 0:00	Preliminary Plans	NOT_INIT	1/1/2001 0:00	CEQA/NEPA	NOT_INIT	1/1/2001 0:00	Permits	NOT_INIT	1/1/2001 0:00	Construction Drawings	NOT_INIT	1/1/2001 0:00	Funding	NOT_INIT	1/1/2001 0:00
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Land Acquisition	NOT_INIT	1/1/2001 0:00																									
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Construction Drawings	NOT_INIT	1/1/2001 0:00																									
Funding	NOT_INIT	1/1/2001 0:00																									
Proposed Start Date: 1/1/2006 Proposed Completion Date: 1/1/2007 Ready For Construction Bid: N/A																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality:	NA	Treatment Technology:	NA																								
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD):	0																								
Receiving Water Body Qual. Improvement:	NA	<u>Targeted Contaminants</u>																									
Improved Flood Management:	NA	Metal:	FALSE																								
Ground Water Protection or Improvement:	NA	Pathogens:	FALSE																								
Other: NA		Nutrients:	FALSE																								
		Trash:	FALSE																								
		Pollutants:	FALSE																								
		Other:	FALSE																								
		Description:	NA																								

Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA
Other: NA

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA
NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE
Other: NA

Type of supply/demand reduction: NA
Description: NA

Annual Yield of Supply (AFY): 0

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0
Description: NA

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0
Multiple Use/Recreation Area
Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0
Description: Community Gardens with BMPs
Total Project Acres: 0

Other Benefits

NA

Dominant existing land use type: NA
NA
Upstream/downstream land use type: NA
NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 204 I-105 Freeway to Dominguez Gap Barrier Pipeline

Water Replenishment District of Southern California
 4040 Paramount Boulevard Lakewood, CA
 90712

Jason Weeks
 562-275-4253
 jweeks@ wrd.org

Partnering Agency:

<u>Project Description</u>			
A portion of the I-105 freeway between the San Gabriel and LA rivers was completed below the original land surface. To mitigate high groundwater, Caltrans constructed a series of extraction wells along the west-bound side of the freeway to control the groundwater level below the freeway surface. This project involves treating this 2,000 afy and conserving it in the West Coast Groundwater Basin through the Dominguez Gap Barrier (DGB) to offset imported water demands. Major project components include: the construction of approximately 8 miles of pipeline from the dewatering wells to Dominguez Gap Barrier, a new 1,550 gallon per minute (gpm) deep well and a 1,300 gpm treatment plant consisting of oxidation / filtrations for iron and manganese removal, followed by GAC adsorption for VOC removal (specifically TCE and cis-1,2-DCE). Water from the new treatment facility well will be augmented with 2,500 afy from the new well to provide 4,500 afy to the DGB, thereby reducing imported water demands by a like amount			
<u>Project Integration</u>	<u>Project Need</u>		
	This project will conserve approximately 2,000 acre-feet of water currently lost to the ocean and use it to replace imported water at the Dominguez Gap Seawater Intrusion Barrier, thereby reducing the region's demand on water from northern California and the Colorado River. Additionally, this project will utilize the groundwater storage capacity of the Central Basin to shift an additional 2,500 acre-feet per year of non-interruptible imported water demand to interruptible imported water demand.		
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>	
	The proposed pipeline will run generally follow the alignment of the Los Angeles River between the 105 Freeway and 405 Freeway to an existing interconnection to the Dominguez gap Barrier.	Lower Estimated Total Capital Cost (\$): 24100000 Upper Estimated Total Capital Cost (\$): 39300000 Of total cost, estimated cost for land purchase/easement (\$): 2000000 Annual OM Cost (\$): 750000 Design Life of Project (years): 30	
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>
CB WB LARW	2004 WRD Capital Improvement Program 2004 WRD Capital Improvement Program January 1996 I-105 Freeway Dewater Wells 97-005 Study		LOW_LA_RVR SO_BAY NA
<u>Is part of larger program?</u>			
FALSE			
<u>Readiness to Proceed</u>			
		<u>Item</u>	<u>Status</u>
		<u>Conceptual Plans</u>	<u>COMP</u>
		<u>Land Acquisition</u>	<u>IN_PROC</u>
		<u>Preliminary Plans</u>	<u>IN_PROC</u>
		<u>CEQA/NEPA</u>	<u>IN_PROC</u>
		<u>Permits</u>	<u>IN_PROC</u>
		<u>Construction Drawings</u>	<u>IN_PROC</u>
		<u>Funding</u>	<u>IN_PROC</u>
Proposed Start Date: 9/30/2008 Proposed Completion Date: 6/30/2010 Ready For Construction Bid: 1-3 Years			
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>	
Improve Storm Water Quality:	SEC	Treatment Technology: Oxidation/filtration and GAC adsorptio	
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 1.87	
Receiving Water Body Qual. Improvement:	SEC	<u>Targeted Contaminants</u>	
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE	
Ground Water Protection or Improvement:	PRI	Trash: FALSE Pollutants: FALSE Other: TRUE	
Other:		Description: Treatment for iron and manganese and VOC removal - primarily TCE and cis-1,2-DCE	

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	PRI
Increased Operational Flexibility:	PRI
Increased Water Conservation:	PRI
Increased Water Recycling:	NA
Increased Groundwater Management:	PRI
Reduced Sea Water Intrusion:	PRI
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
Soil Type	NA
Method and Recharge (AFY):	Injection (4,500)
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	TRUE
Groundwater Treatment:	TRUE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE

Other:

Type of supply/demand reduction: POT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year:	4500
Dry Year:	4500
Wet Year:	4500
Other:	4500

Description:

Availability by season:

Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	
Total Project Acres:	0

Other Benefits

The primary benefit of this project is the conservation of approximately 2,000 acre-feet per year of water currently being wasted to the ocean as a result of dewatering operations beneath the I-105 freeway. The conservation of this water in the Dominguez Gap Barrier will directly offset non-interruptible imported water purchases by the WRD. An additional 2,500 acre-feet of extracted groundwater from a newly constructed deep well will further offset imported water purchases, bringing the total reduction in imported water demand as a result of this project to 4,500 acre-feet per year.

Dominant existing land use type:	OTHR
<input type="text" value="Varies along the alignment of the pipeline."/>	
Upstream/downstream land use type:	OTHR
<input type="text" value="Varies along the alignment of the pipeline."/>	

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	Y
Disadvantaged Community Participation:	NS
Organization:	<input type="text"/>

Project # 206 Carson Regional Water Recycling Project

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Marc Serna
 310-660-6213
 marcs@westbasin.org

www.westbasin.org

Partnering Agency: BP(British Petroleum), County Sa

<u>Project Description</u>				
This project proposes to construct a recycled water distribution line from the County Sanitation Districts of Los Angeles County's Joint Water Pollution Control Plant (JWPCP) to the future site of the BP Hydrogen Plant in the City of Carson, as well as other customers along the main pipeline. The future site of BP's Plant will require water for processing purposes. This new demand will require potable water that puts more pressure on imported water supplies. Therefore, recycled water is the preferred alternative. The BP facility will require approximately 23,392 acre-feet per year of water. The JWPCP is well equipped to provide this amount of treated wastewater that can be further treated for industrial use and be treated to meet BP facility's needs and will most likely be of higher water quality than the standard Title 22.				
<u>Project Integration</u> West Basin's Water Recycling Program	<u>Project Need</u> The proposed project will address a need for recycled water use for a new demand. The company British Petroleum (BP) is constructing a Hydrogen Plant in the City of Carson and will have an average day demand of over 23,000 acre-feet per year, or 21 million gallons per day (MGD). This is a new demand on the system and will require pipelines, pump stations, treatment, storage, and waste management facilities. The BP demand will be supplied from the Joint Water Pollution Control Plant, owned by the County Sanitation Districts of Los Angeles County. The water will be treated to meet BP's water quality standards. If the BP Hydrogen Plant did not use recycled water, there will be a need of an additional 21MGD from the Colorado River and Bay-Delta. The construction of this project is vital to BP's use of recycled water. This project will also reduce the amount of secondary			
<u>Cooperating Agencies</u> British Petroleum Sanitation Districts of Los Angeles Sanitation Districts of Los Angeles City of Los Angeles Customer Agencies	<u>Location Description</u> Dominguez Watershed	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 10000000 Upper Estimated Total Capital Cost (\$): 150000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 6000000 Design Life of Project (years): 30		
<u>Associated Watersheds</u> WB DCW NA	<u>Project Source(s)</u> Meets goals of 2005 West Basin Urban Water Management Plan Meets goals of 2005 West Basin Urban Water Management Plan		<u>Sub-region(s)</u> SO_BAY NA NA	
<u>Is part of larger program?</u> TRUE	NA NA			
<u>Readiness to Proceed</u>				
NA		<u>Item</u>	<u>Status</u>	<u>Date</u>
		Conceptual Plans	COMP	3/9/2007 0:00
		Land Acquisition	NA	1/1/1753 12:00:
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:
		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
		Permits	IN_PROC	3/12/2007 0:00
		Construction Drawings	NOT_INIT	1/1/1753 12:00:
		Funding	NOT_INIT	1/1/1753 12:00:
Proposed Start Date: 3/31/2008				
Proposed Completion Date: 9/13/2010				
Ready For Construction Bid: 1-3 Years				
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>		
Improve Storm Water Quality:	NA	Treatment Technology: Microfiltration and Reverse Osmosis		
Improve Wastewater Effluent WQ:	PRI	Treatment Capacity (MGD): 21		
Receiving Water Body Qual. Improvement:	NA	<u>Targeted Contaminants</u>		
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE		
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: FALSE Other: TRUE		
Other:		Description: This project will use 23,392 AFY of wastewater, treated and used for Title 22 and higher quality water		

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	PRI
Increased Operational Flexibility:	PRI
Increased Water Conservation:	NA
Increased Water Recycling:	PRI
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	TRUE
Reclaimed Groundwater:	FALSE	Conservation:	TRUE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		

Type of supply/demand reduction: NONPOT
 Description:

Annual Yield of Supply (AFY): 23392

Availability by water-year type (AFY)

Average Year:	23392
Dry Year:	23392
Wet Year:	23392
Other:	23392
Description:	NA

Availability by season:

Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	NA
Total Project Acres:	0

Other Benefits

This project will provide water supply and water quality benefits. By recycling treated wastewater for industrial purposes, there will be less demand on imported water supplies on the Colorado River and the Bay-Delta. Approximately 23,392 acre-feet per year or 21 million gallons per day can be conserved through the use of recycled water. This means that the treated wastewater is not discharged into the ocean and less imported and local potable supplies are being used. In a drought-prone area with a Mediterranean climate, it is imperative that conservation measures be put in place to

Dominant existing land use type:	IND
Upstream/downstream land use type:	NA
Other:	NA

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 207 Construct a 20-mgd Seawater Desalination Plant in West Basin

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Phil Lauri
 310-660-6238
 phill@westbasin.org

www.westbasin.org

Partnering Agency:

Project Description

The project proposes to construct a 20mgd 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 20,000 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.

<u>Project Integration</u> Seawater Desalination Coalition	<u>Project Need</u> This project will provide a local water supply source to the South Bay region. The ocean-water desalination plant will provide 20 million gallons per day of desalinated water for potable use. This source will provide water reliability to the region that is heavily dependent on imported water supplies. In addition to providing a reliable water source, desalination will help to offset the imported supplies from the Bay-Delta and the Colorado River, therefore, providing environmental benefits to those regions. Ocean-water desalination will provide another source of water in addition to recycled water, conservation, groundwater, and imported water.
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<u>Cooperating Agencies</u> NA NA NA NA	<u>Location Description</u> Lower Santa Monica Bay Watershed	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 10000000 Upper Estimated Total Capital Cost (\$): 180000000 Of total cost, estimated cost for land purchase/easement (\$): 5000000 Annual OM Cost (\$): 8000000 Design Life of Project (years): 40
<u>Associated Watersheds</u> DCW SMBW WB	<u>Project Source(s)</u> West Basin MWD's 2005 Urban Water Management Plan West Basin MWD's 2005 Urban Water Management Plan	<u>Sub-region(s)</u> SO_BAY NA NA
<u>Is part of larger program?</u> TRUE	NA NA	

<u>Readiness to Proceed</u>			
NA		<u>Item</u>	<u>Status</u>
		Conceptual Plans	IN_PROC 1/1/2004 0:00
		Land Acquisition	NOT_INIT 1/1/1753 12:00:
		Preliminary Plans	NOT_INIT 1/1/1753 12:00:
		CEQA/NEPA	NOT_INIT 1/1/1753 12:00:
		Permits	NOT_INIT 1/1/1753 12:00:
		Construction Drawings	NOT_INIT 1/1/1753 12:00:
		Funding	NOT_INIT 1/1/1753 12:00:
Proposed Start Date:	1/1/2011		
Proposed Completion Date:	1/1/2013		
Ready For Construction Bid:	3-5 Years		

<u>Water Quality Objectives</u>	<u>Water Quality Benefits</u>
Improve Storm Water Quality: NA	Treatment Technology: NA
Improve Wastewater Effluent WQ: NA	Treatment Capacity (MGD): 20
Receiving Water Body Qual. Improvement: NA	<u>Targeted Contaminants</u>
Improved Flood Management: NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE
Ground Water Protection or Improvement: NA	Trash: FALSE Pollutants: FALSE Other: FALSE
Other:	Description: NA

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	PRI
Increased Operational Flexibility:	PRI
Increased Water Conservation:	PRI
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	PRI
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	TRUE	Transfer:	FALSE
Other:	NA		

Type of supply/demand reduction: POT
 Description:

Annual Yield of Supply (AFY): 20000

Availability by water-year type (AFY)

Average Year:	20000
Dry Year:	20000
Wet Year:	20000
Other:	20000
Description:	NA

Availability by season:

Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	NA
Total Project Acres:	0

Other Benefits

The project's benefits include water reliability, higher water quality, reduction on Bay-Delta and Colorado River imported water supplies, and local water production. The Desalination Plant will provide up to 20 million gallons per day, or 20,000 acre-feet per year. This new supply will satisfy new demands placed on the region from population and reduce the need for additional groundwater or imported water supplies.

Dominant existing land use type:	IND
Upstream/downstream land use type:	IND

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 209 Harbor/ South Bay Expansion

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Joe Walters
 310-660-6208
 joew@westbasin.org

www.westbasin.org

Partnering Agency: Customer Agencies, United State

<u>Project Description</u>																											
This project expands the West Basin Water Recycling distribution line to the West Basin service area and the Palos Verdes Peninsula. This project is needed in the Palos Verdes Peninsula area because of the amount of green open space, landscaped areas, and golf courses that could benefit from reclaimed water for irrigation. This distribution line will also connect to another portion of West Basin's service area that will supply recycled water to the Los Angeles Harbor area. The recycled water will originate from Hyperion Wastewater Treatment Facility in Los Angeles. The recycled water is transported through existing lines to the Palos Verdes Peninsula area.																											
<u>Project Integration</u> West Basin's Water Recycling Program		<u>Project Need</u> This project is needed in the West Basin service area because of the amount of green open space, landscaped areas, and golf courses that could benefit from reclaimed water for irrigation. This distribution line will also connect to another portion of West Basin's service area that will supply recycled water to the Los Angeles Harbor area. The recycled water will originate from Hyperion Wastewater Treatment Facility in Los Angeles. The recycled water is transported through existing lines to West Basin's service area including the Palos Verdes Peninsula area. This project will conserve approximately 2100 AFY of imported water supplies and treat 2100 AFY of wastewater effluent that would otherwise be discharged to the ocean.																									
<u>Cooperating Agencies</u> Customer Agencies ited States Bureau of Reclamat ited States Bureau of Reclamat City of Los Angeles NA	<u>Location Description</u> Dominguez and Lower Santa Monica Bay	<u>Project Cost Estimate</u> Lower Estimated Total Capital Cost (\$): 5000000 Upper Estimated Total Capital Cost (\$): 15000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 100000 Design Life of Project (years): 40																									
<u>Associated Watersheds</u> DCW SMBW WB	<u>Project Source(s)</u> West Basin MWD's 2005 Urban Water Management Plan West Basin MWD's 2005 Urban Water Management Plan West Basin MWD/Los Angeles Department of Water and Power Harbor Plan NA		<u>Sub-region(s)</u> SO_BAY NA NA																								
<u>Is part of larger program?</u> TRUE																											
<u>Readiness to Proceed</u>																											
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th><u>Item</u></th> <th><u>Status</u></th> <th><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>Preliminary Plans</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>Permits</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>Construction Drawings</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>Funding</td> <td>IN_PROC</td> <td>1/1/2007 0:00</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	1/1/2007 0:00	Land Acquisition	COMP	1/1/2007 0:00	Preliminary Plans	COMP	1/1/2007 0:00	CEQA/NEPA	COMP	1/1/2007 0:00	Permits	COMP	1/1/2007 0:00	Construction Drawings	COMP	1/1/2007 0:00	Funding	IN_PROC	1/1/2007 0:00
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Land Acquisition	COMP	1/1/2007 0:00																									
Preliminary Plans	COMP	1/1/2007 0:00																									
CEQA/NEPA	COMP	1/1/2007 0:00																									
Permits	COMP	1/1/2007 0:00																									
Construction Drawings	COMP	1/1/2007 0:00																									
Funding	IN_PROC	1/1/2007 0:00																									
Proposed Start Date: 1/1/2007 Proposed Completion Date: 1/1/2009 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u> Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: SEC Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:		<u>Water Quality Benefits</u> Treatment Technology: NA Treatment Capacity (MGD): 0 <u>Targeted Contaminants</u> Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: NA																									

Water Supply Objectives

Reduced Reliance Imported Water: PRI
 Increased Water Supply Reliability: PRI
 Increased Operational Flexibility: PRI
 Increased Water Conservation: SEC
 Increased Water Recycling: PRI
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: TRUE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NONPOT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 2100
 Dry Year: 2100
 Wet Year: 2100
 Other: 2100

Description:

Availability by season:

Summer: TRUE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0

Description: NA

Total Project Acres: 0

Other Benefits

This project provides multiple benefits including: increased water reliability, diversion of wastewater discharge to ocean, imported water and groundwater savings, and increased local production. This project will recycle approximately 2,100 AFY of treated wastewater effluent.

Dominant existing land use type: PUB

Upstream/downstream land use type: RES

Addresses Environmental Justice issues: N

Within Disadvantaged Community: N

Disadvantaged Community Participation: N

Organization:

Project # 211 Dominguez Refineries Recycled Water Project

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Marc Serna
 310-660-6213
 marcs@westbasin.org

www.westbasin.org

Partnering Agency: Los Angeles Department of Water

<u>Project Description</u>																											
This project proposes to extend the existing West Basin Water Recycling System distribution line through Carson and the LA Harbor area. It will connect major refineries and industry. This project will include a nitrification treatment in Carson. This distribution line will also connect to another portion of West Basin's service area that will supply recycled water to the Palos Verdes Peninsula area.																											
<u>Project Integration</u>		<u>Project Need</u>																									
West Basin MWD's Water Recycling Program Master Plan		This project expands the West Basin Water Recycling distribution line to the Carson and Los Angeles Harbor area. This project is needed because of the amount of refineries that will benefit from the use of reclaimed water for their processes. The recycled water will originate from Hyperion Wastewater Treatment Facility and undergo MF/RO at West Basin's Water Recycling Facility. The refineries currently use groundwater as their water source. In doing so, the risk of seawater intrusion into the groundwater basin is high. This project will replace the use of groundwater with recycled water. Therefore, the groundwater remains in the basin, continuing to halt the threat of seawater intrusion. Replenishing the Dominguez Gap Barrier is the highest cost water to the Water Replenishment District and its pumpers. This project will alleviate that costs by replacing																									
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>																									
Los Angeles Department of Customer Agencies Customer Agencies Water Replenishment District NA	Dominguez Watershed	Lower Estimated Total Capital Cost (\$): 5000000 Upper Estimated Total Capital Cost (\$): 15000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 100000 Design Life of Project (years): 40																									
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>																								
DCW SMBW WB	West Basin/Los Angeles Department of Water & Power Water Recycling Program West Basin/Los Angeles Department of Water & Power Water Recycling Program		SO_BAY NA																								
<u>Is part of larger program?</u>	NA	NA	NA																								
TRUE	NA	NA																									
<u>Readiness to Proceed</u>																											
NA		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th><u>Item</u></th> <th><u>Status</u></th> <th><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>COMP</td> <td>1/1/2007 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>		<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	1/1/2007 0:00	Land Acquisition	NOT_INIT	1/1/1753 12:00:	Preliminary Plans	COMP	1/1/2007 0:00	CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	Permits	NOT_INIT	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
<u>Item</u>	<u>Status</u>	<u>Date</u>																									
Conceptual Plans	COMP	1/1/2007 0:00																									
Land Acquisition	NOT_INIT	1/1/1753 12:00:																									
Preliminary Plans	COMP	1/1/2007 0:00																									
CEQA/NEPA	NOT_INIT	1/1/1753 12:00:																									
Permits	NOT_INIT	1/1/1753 12:00:																									
Construction Drawings	NOT_INIT	1/1/1753 12:00:																									
Funding	NOT_INIT	1/1/1753 12:00:																									
Proposed Start Date: 1/1/2008 Proposed Completion Date: 1/1/2010 Ready For Construction Bid: 1-3 Years																											
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>																									
Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: SEC Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:	Treatment Technology: NA Treatment Capacity (MGD): 10 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: FALSE Description: 10,000 AFY of wastewater																										

Water Supply Objectives

Reduced Reliance Imported Water: PRI
 Increased Water Supply Reliability: PRI
 Increased Operational Flexibility: PRI
 Increased Water Conservation: SEC
 Increased Water Recycling: PRI
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: TRUE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NONPOT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 10000
 Dry Year: 10000
 Wet Year: 10000
 Other: 10000

Description:

Availability by season:

Summer: TRUE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0

Multiple Use/Recreation Area

Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0

Description: NA

Total Project Acres: 0

Other Benefits

This project provides multiple benefits including: increased water reliability, diversion of wastewater discharge to ocean, imported water and groundwater savings, reduction of seawater intrusion, reduced imported water into the Dominguez Gap Barrier, a lower Water Replenishment District Replenishment Assessment for both West Basin and Central Basin pumpers, and increased local water production. This project will recycle approximately 10,000 AFY of treated wastewater effluent, or 10MGD. This project also reduces energy costs for imported water.

Dominant existing land use type: PUB

Upstream/downstream land use type: IND

Addresses Environmental Justice issues: N

Within Disadvantaged Community: NS

Disadvantaged Community Participation: NS

Organization:

Project # 212 West Coast Basin Groundwater Aquifer Protection Project

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Wyatt Won
 310-660-6203
 wyattw@westbasin.org

www.westbasin.org

Partnering Agency: Los Angeles County Department

<u>Project Description</u>			
<p>This project will provide reliability of the groundwater supplies in the West Coast Basin Groundwater Aquifer. This project proposes to upgrade the existing Barrier with new equipment in order to protect approximately 50,000 AFY of water from seawater intrusion. Because southern California is highly dependent on imported water supplies, if these supplies were at risk, the constituents within our service area will rely on West Basin MWD to provide adequate amounts of water. To ensure water reliability, West Basin relies on the groundwater aquifer to supply water for its service area. This aquifer needs to be protected from seawater intrusion.</p>			
<u>Project Integration</u>	<u>Project Need</u>		
	<p>This project will provide reliability of the groundwater supplies in the West Coast Basin Groundwater Aquifer. This project proposes to upgrade the existing Barrier with new equipment in order to protect approximately 50,000 AFY of water from seawater intrusion. Because southern California is highly dependent on imported water supplies, if these supplies were at risk, the constituents within our service area will rely on West Basin MWD to provide adequate amounts of water. To ensure water reliability, West Basin relies on the groundwater aquifer to supply water for its service area. This aquifer needs to be protected from seawater intrusion.</p>		
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>	
Los Angeles County Water Replenishment District Water Replenishment District Customer Agencies NA	Dominguez and Lower Santa Monica Bay	Lower Estimated Total Capital Cost (\$): 5000000 Upper Estimated Total Capital Cost (\$): 15000000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 100000 Design Life of Project (years): 40	
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>
DCW SMBW WB	West Basin MWD's 2005 Urban Water Management Plan West Basin MWD's 2005 Urban Water Management Plan		SO_BAY
<u>Is part of larger program?</u>	NA NA		NA NA
FALSE			
<u>Readiness to Proceed</u>			
NA		<u>Item</u>	<u>Status</u>
		Conceptual Plans	COMP 12/1/2006 0:00
		Land Acquisition	NA 1/1/1753 12:00:
		Preliminary Plans	COMP 12/6/2007 0:00
		CEQA/NEPA	COMP 12/6/2007 0:00
		Permits	COMP 12/6/2007 0:00
		Construction Drawings	IN_PROC 1/8/2007 0:00
		Funding	IN_PROC 1/8/2007 0:00
Proposed Start Date: 1/1/2008			
Proposed Completion Date: 1/1/2009			
Ready For Construction Bid: 1-3 Years			
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>	
Improve Storm Water Quality:	NA	Treatment Technology:	NA
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD):	45
Receiving Water Body Qual. Improvement:	NA	<u>Targeted Contaminants</u>	
Improved Flood Management:	NA	Metal: FALSE	Pathogens: FALSE Nutrients: FALSE
Ground Water Protection or Improvement:	PRI	Trash: FALSE	Pollutants: FALSE Other: FALSE
Other:		Description: 50,000 AFY protected groundwater supplies	

Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	PRI
Increased Operational Flexibility:	PRI
Increased Water Conservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	PRI
Reduced Sea Water Intrusion:	PRI
Protect/Improve Drinking Water Standards:	PRI
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	TRUE
Groundwater Treatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:	NA		
Type of supply/demand reduction:	POT		
Description:			
Annual Yield of Supply (AFY):	50000		
<u>Availability by water-year type (AFY)</u>			
Average Year:	50000		
Dry Year:	50000		
Wet Year:	50000		
Other:	50000		
Description:	NA		
<u>Availability by season:</u>			
Summer:	FALSE	Spring	FALSE
Fall:	FALSE	Winter	FALSE
Has potential to displace demands on Bay/Delta/Estuary system:	Y		

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	NA
Total Project Acres:	0

Other Benefits

This project provides water reliability of the groundwater aquifer; approximately 50,000 AFY protected, or 45 MGD of potable water supplies.

Dominant existing land use type:	PUB
Upstream/downstream land use type:	NA

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	NA

Project # 221 Carson Regional Water Recycling Pilot Plant

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Marc Serna
 310-660-6213
 marcs@westbasin.org

www.westbasin.org

Partnering Agency: British Petroleum, County Sanitati

Project Description

This project will test the feasibility of treating the secondary treated wastewater from the Joint Water Pollution Control Plant to high quality recycled water standards. Data will be collected on the feasibility of treating the water as well as the treatment process. This Pilot Plant is in preparation for a full-scale 21mgd Plant that will recycle 23,392 acre-feet per year. A Pilot Plant is necessary prior to construction of the full-scale facility in order to ensure the treatment process works properly and the location is feasible to handle the amount of water treated, stored, and used for industrial use. The Pilot Plant's design will be incorporated into the design of the full-scale Recycled Water Facility.

<p style="text-align: center;"><u>Project Integration</u></p> <p>West Basin MWD's Recycled Water Master Plan</p>	<p style="text-align: center;"><u>Project Need</u></p> <p>The proposed project is a Pilot Plant that is needed in order to test the feasibility of treating the secondary treated wastewater from the Joint Water Pollution Control Plant to high quality recycled water standards. Data will be collected on the feasibility of treating the water using the microfiltration and reverse osmosis treatment processes. This Pilot Plant is in preparation for a full-scale 21mgd Plant that will recycle 23,392 acre-feet per year. A Pilot Plant is necessary prior to construction of the full-scale facility in order to ensure the treatment process works properly and the location is feasible to handle the amount of water treated, stored, and used for industrial use. The Pilot Plant will treat 21 gallons per minute (.03 million gallons per day) for testing the microfiltration and reverse osmosis treatment processes.</p>
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<p style="text-align: center;"><u>Cooperating Agencies</u></p> <p>British Petroleum Sanitation District of Los Angeles Sanitation District of Los Angeles City of Los Angeles Customer Agencies</p>	<p style="text-align: center;"><u>Location Description</u></p> <p>Dominguez Watershed, in close proximity to the Joint Water Pollution Control Plant owned and operated by the County Sanitation District of Los Angeles County</p>	<p style="text-align: center;"><u>Project Cost Estimate</u></p> <p>Lower Estimated Total Capital Cost (\$): 250000 Upper Estimated Total Capital Cost (\$): 500000 Of total cost, estimated cost for land purchase/easement (\$): 0 Annual OM Cost (\$): 50000 Design Life of Project (years): 2</p>
<p style="text-align: center;"><u>Associated Watersheds</u></p> <p>DCW WB NA</p>	<p style="text-align: center;"><u>Project Source(s)</u></p>	
<p style="text-align: center;"><u>Is part of larger program?</u></p> <p>TRUE</p>	<p style="text-align: center;"><u>Sub-region(s)</u></p> <p>SO_BAY NA NA</p>	

Readiness to Proceed

<div style="border: 1px solid black; height: 60px; width: 100%;"></div> <p>Proposed Start Date: 7/28/2007 Proposed Completion Date: 6/11/2009 Ready For Construction Bid: 1-3 Years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Item</u></th> <th style="text-align: left;"><u>Status</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Conceptual Plans</td> <td>COMP</td> <td>4/1/2007 0:00</td> </tr> <tr> <td>Land Acquisition</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Preliminary Plans</td> <td>IN_PROC</td> <td>5/1/2007 0:00</td> </tr> <tr> <td>CEQA/NEPA</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Permits</td> <td>NA</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Construction Drawings</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> <tr> <td>Funding</td> <td>NOT_INIT</td> <td>1/1/1753 12:00:</td> </tr> </tbody> </table>	<u>Item</u>	<u>Status</u>	<u>Date</u>	Conceptual Plans	COMP	4/1/2007 0:00	Land Acquisition	NA	1/1/1753 12:00:	Preliminary Plans	IN_PROC	5/1/2007 0:00	CEQA/NEPA	NA	1/1/1753 12:00:	Permits	NA	1/1/1753 12:00:	Construction Drawings	NOT_INIT	1/1/1753 12:00:	Funding	NOT_INIT	1/1/1753 12:00:
<u>Item</u>	<u>Status</u>	<u>Date</u>																							
Conceptual Plans	COMP	4/1/2007 0:00																							
Land Acquisition	NA	1/1/1753 12:00:																							
Preliminary Plans	IN_PROC	5/1/2007 0:00																							
CEQA/NEPA	NA	1/1/1753 12:00:																							
Permits	NA	1/1/1753 12:00:																							
Construction Drawings	NOT_INIT	1/1/1753 12:00:																							
Funding	NOT_INIT	1/1/1753 12:00:																							

<p style="text-align: center;"><u>Water Quality Objectives</u></p> <p>Improve Storm Water Quality: NA Improve Wastewater Effluent WQ: PRI Receiving Water Body Qual. Improvement: NA Improved Flood Management: NA Ground Water Protection or Improvement: NA Other:</p>	<p style="text-align: center;"><u>Water Quality Benefits</u></p> <p>Treatment Technology: Microfiltration and Reverse Osmosis Treatment Capacity (MGD): 30240 Targeted Contaminants Metal: FALSE Pathogens: FALSE Nutrients: FALSE Trash: FALSE Pollutants: FALSE Other: TRUE</p> <p>Description: The project will treat secondary treated wastewater to high quality recycled water standards to be used for industrial use.</p>
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Water Supply Objectives

Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	PRI
Increased Operational Flexibility:	PRI
Increased Water Conservation:	PRI
Increased Water Recycling:	PRI
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:	-1
Detention Basin Area (acres):	-1
Max Operational Depth (ft):	-1
% Wetlands	0
SoilType	NA
Method and Recharge (AFY):	
Estimated Annual Inflow (AFY):	-1
Estimated Annual Outflow (AFY):	-1

Beneficial Use Objectives

Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:	-1
Max Conveyance Capacity:	-1
Flood Protection Level:	NA
Acres Benefitting:	-1
Other:	0
Estimated Annual Flood Reduction Value:	-1
Acreage Required for Implementation:	-1

Water Supply/Demand Reduction Benefits

Surface Water Storage:	FALSE	Groundwater:	FALSE
Groundwater Treatment:	FALSE	Recycled Water:	TRUE
Reclaimed Groundwater:	FALSE	Conservation:	TRUE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:			

Type of supply/demand reduction: NONPOT
 Description:

Annual Yield of Supply (AFY): 33.87

Availability by water-year type (AFY)

Average Year:	33.87
Dry Year:	33.87
Wet Year:	33.87
Other:	33.87
Description:	NA

Availability by season:

Summer:	TRUE	Spring	TRUE
Fall:	TRUE	Winter	TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
<u>Multiple Use/Recreation Area</u>	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	
Total Project Acres:	0

Other Benefits

The benefits of the project include reuse of secondary treated wastewater for industrial processes, reduction in discharge to the ocean, and 100% reliability and conservation. Recycled water is an extremely valuable resource because of its reduction of imported water supplies and groundwater supplies. This Pilot Plant is necessary to construct prior to the full-scale facility in order to ensure proper treatment and capacity of the water. The full-scale facility will treat 23,392 acre-feet per year of secondary wastewater. This results in a reduction of imported water supplies from the Bay-Delta

Dominant existing land use type:	IND
Upstream/downstream land use type:	NA

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	NS
Disadvantaged Community Participation:	NS
Organization:	

Project # 225 Provide 100% recycled water to the West Coast Barrier-17.5 mgd

West Basin Municipal Water District
 17140 S. Avalon Blvd., Suite 210 Carson, CA
 90746

Marc Serna
 310-660-6213
 marcs@westbasin.org

www.westbasin.org

Partnering Agency: Water Replenishment District, Los

<u>Project Description</u>			
This project is needed to offset imported water and groundwater supplies with the use of recycled water. Increased use of recycled water is needed in this area because of the demands put on imported water and groundwater supplies; and therefore water reliability is the goal of West Basin MWD. The project proposes to provide 100% recycled water for injection into the West Coast Barrier. West Basin MWD currently injects 75% of recycled water and 25% of imported water into the Barrier. This expansion will provide a total of 17,500 AFY of additional supplies.			
<u>Project Integration</u> West Basin MWD's Recycled Water Master Plan	<u>Project Need</u> This project is needed to offset imported water and groundwater supplies with the use of recycled water. Increased use of recycled water is needed in this area because of the demands put on imported water and groundwater supplies; and therefore water reliability is the goal of West Basin MWD. The project proposes to provide 100% recycled water for injection into the West Coast Barrier. West Basin MWD currently injects 75% of recycled water and 25% of imported water into the Barrier. This expansion will provide a total of 17,500 AFY of additional supplies.		
<u>Cooperating Agencies</u> Water Replenishment District Los Angeles County Department of Public Works Los Angeles County Department of Public Works City of Los Angeles NA	<u>Location Description</u> Dominguez and Lower Santa Monica Bay	<u>Project Cost Estimate</u>	
<u>Associated Watersheds</u> DCW SMBW WB	<u>Project Source(s)</u> West Basin MWD's 2005 Urban Water Management Plan West Basin MWD's 2005 Urban Water Management Plan	Lower Estimated Total Capital Cost (\$): 5000000	
		Upper Estimated Total Capital Cost (\$): 15000000	
<u>Is part of larger program?</u> TRUE		Of total cost, estimated cost for land purchase/easement (\$): 0	
		Annual OM Cost (\$): 100000	
		Design Life of Project (years): 40	
		<u>Sub-region(s)</u>	
		SO_BAY	
		NA	
		NA	
<u>Readiness to Proceed</u>			
NA		<u>Item</u>	<u>Status</u>
		Conceptual Plans	COMP 11/1/2005 0:00
		Land Acquisition	NA 1/1/1753 12:00:
		Preliminary Plans	COMP 11/1/2005 0:00
		CEQA/NEPA	COMP 11/1/2006 0:00
		Permits	COMP 11/1/2006 0:00
		Construction Drawings	NOT_INIT 1/1/1753 12:00:
		Funding	NOT_INIT 1/1/1753 12:00:
Proposed Start Date: 1/1/2009			
Proposed Completion Date: 1/1/2011			
Ready For Construction Bid: 1-3 Years			
<u>Water Quality Objectives</u>		<u>Water Quality Benefits</u>	
Improve Storm Water Quality:	NA	Treatment Technology:	NA
Improve Wastewater Effluent WQ:	SEC	Treatment Capacity (MGD):	17.5
Receiving Water Body Qual. Improvement:	NA	<u>Targeted Contaminants</u>	
Improved Flood Management:	NA	Metal:	FALSE
Ground Water Protection or Improvement:	NA	Pathogens:	FALSE
Other:		Nutrients:	FALSE
		Trash:	FALSE
		Pollutants:	FALSE
		Other:	FALSE
		Description:	NA

Water Supply Objectives

Reduced Reliance Imported Water: PRI
 Increased Water Supply Reliability: PRI
 Increased Operational Flexibility: PRI
 Increased Water Conservation: SEC
 Increased Water Recycling: PRI
 Increased Groundwater Management: NA
 Reduced Sea Water Intrusion: NA
 Protect/Improve Drinking Water Standards: NA

Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
 Detention Basin Area (acres): -1
 Max Operational Depth (ft): -1
 % Wetlands: 0
 Soil Type: NA
 Method and Recharge (AFY):
 Estimated Annual Inflow (AFY): -1
 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
 Restore/Protect Habitat: NA
 Create Public Access/Rec/Open Space: NA
 Increased In-Stream Flow: NA
 Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
 Max Conveyance Capacity: -1
 Flood Protection Level: NA
 Acres Benefitting: -1
 Other: 0
 Estimated Annual Flood Reduction Value: -1
 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
 Groundwater Treatment: FALSE Recycled Water: TRUE
 Reclaimed Groundwater: FALSE Conservation: FALSE
 Ocean Desalination: FALSE Transfer: FALSE

Other:

Type of supply/demand reduction: NONPOT

Description:

Annual Yield of Supply (AFY):

Availability by water-year type (AFY)

Average Year: 17500
 Dry Year: 17500
 Wet Year: 17500
 Other: 17500

Description:

Availability by season:

Summer: TRUE Spring: TRUE
 Fall: TRUE Winter: TRUE

Has potential to displace demands on Bay/Delta/Estuary system: Y

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
 Treatment Wetland Acres: 0
 Riparian Habitat Acres: 0
 Open Space Acres: 0
Multiple Use/Recreation Area
 Single Sport Athletics Acres: 0
 Multiple Sport Athletics Acres: 0
 Other Recreation Acres: 0
 Pedestrian Trail Acres: 0
 Equestrian Trail Acres: 0
 Other Acres: 0
 Description: NA
 Total Project Acres: 0

Other Benefits

This project provides multiple benefits including: increased water reliability, diversion of wastewater discharge to ocean, imported water and groundwater savings, and increased local production. This project will recycle an additional 17,500 AFY of treated wastewater effluent. If the recycled water weren't used, West Basin would continue to take 17,500 AFY of imported water to inject into the Barrier to halt seawater intrusion.

Dominant existing land use type: PUB

Upstream/downstream land use type: NA

Addresses Environmental Justice issues: N

Within Disadvantaged Community: NS

Disadvantaged Community Participation: NS

Organization:

Project # 259 Catch Basin Labels

City of LA
NA

NA NA
555-555-5555
NA

NA Partnering Agency:

<u>Project Description</u>																											
The project labels catch basins throughout the City of LA. Approximately 11,500 in Ballona Creek.																											
<u>Project Integration</u>		<u>Project Need</u>																									
NA		NA																									
<u>Cooperating Agencies</u>	<u>Location Description</u>	<u>Project Cost Estimate</u>																									
NA NA NA NA NA	Various locations within the City of LA.	Lower Estimated Total Capital Cost (\$): 0 Upper Estimated Total Capital Cost (\$): 0 Of total cost, estimated cost for land purchase/easement (\$): -1 Annual OM Cost (\$): -1 Design Life of Project (years): -1																									
<u>Associated Watersheds</u>	<u>Project Source(s)</u>		<u>Sub-region(s)</u>																								
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Water Supply Objectives

Reduced Reliance Imported Water: NA
Increased Water Supply Reliability: NA
Increased Operational Flexibility: NA
Increased Water Conservation: NA
Increased Water Recycling: NA
Increased Groundwater Management: NA
Reduced Sea Water Intrusion: NA
Protect/Improve Drinking Water Standards: NA
Other: NA

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1
Detention Basin Area (acres): -1
Max Operational Depth (ft): -1
% Wetlands: 0
Soil Type: NA
Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

Flood Management Benefit Information

Max Storm Runoff Storage: -1
Max Conveyance Capacity: -1
Flood Protection Level: NA
Acres Benefitting: -1
Other: 0
Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits

Surface Water Storage: FALSE Groundwater: FALSE
Groundwater Treatment: FALSE Recycled Water: FALSE
Reclaimed Groundwater: FALSE Conservation: FALSE
Ocean Desalination: FALSE Transfer: FALSE
Other: NA

Type of supply/demand reduction: NA
Description: NA

Annual Yield of Supply (AFY): 0

Availability by water-year type (AFY)

Average Year: 0
Dry Year: 0
Wet Year: 0
Other: 0
Description: NA

Availability by season:

Summer: FALSE Spring: FALSE
Fall: FALSE Winter: FALSE

Has potential to displace demands on Bay/Delta/Estuary system: NS

Beneficial Use Benefit

Non-Treatment Wetland Acres: 0
Treatment Wetland Acres: 0
Riparian Habitat Acres: 0
Open Space Acres: 0
Multiple Use/Recreation Area
Single Sport Athletics Acres: 0
Multiple Sport Athletics Acres: 0
Other Recreation Acres: 0
Pedestrian Trail Acres: 0
Equestrian Trail Acres: 0
Other Acres: 0
Description: Water Quality
Total Project Acres: 0

Other Benefits

NA

Dominant existing land use type: NA
NA
Upstream/downstream land use type: NA
NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 260 Catch Basin Screens and Inserts

City of LA
NA

NA NA
555-555-5555
NA

NA Partnering Agency:

<u>Project Description</u>																											
This is an ongoing effort by the City of LA that upon completion will have installed 10,000 screens and inserts.																											
<u>Project Integration</u>		<u>Project Need</u>																									
NA		NA																									
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