



Project Number 999

Lead Agency Information

Agency or Organization ®: Orange County Water Distict

Project Director ®: GregWoodside

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Project Partners

<u>Agency</u>	<u>Contact Name</u>	<u>Phone</u>
City of Anaheim <ul style="list-style-type: none"> ■ Coordinated Planning ■ Provides In-Kind Services 	Keith Linker	714 765 4141
County of Orange, OCWatersheds <ul style="list-style-type: none"> ■ Coordinated Planning ■ Provides In-Kind Services 	Mary Anne Skorpanich	714 955 0601



Project Type Construction

Q. Is this project included in an existing regional, sub-regional plan ®? Yes

If yes, name plan (200 characters): Orange County Regional Stormwater Infiltration Program

Project Location

Describe Location/Area (500 characters)®:

Regional infiltration projects will be built and/or expanded as necessary in response to demands created by new development and significant redevelopment projects throughout Orange County and located at sites where infiltration is feasible and desirable.

Q. Please provide an electronic GIS shapefile delineating the project: MTBE.zip

or if no GIS shapefile is available provide a set of point coordinates (lat/long)

Latitude: 33.859

Longitude: -117.807

E. Project Funding and Economic Feasibility

Q. Approximately what portion of the project funding is expected from ®:

Description	Amount	Percent
Requested Funding	\$500,000.00	25%
Non-State Share (Funding Match)	\$1,500,000.00	75%
Local Contribution		
Federal Contribution		
In-Kind Contribution		
SRF Loan		
Total Project	\$2,000,000.00	100%

Q. Has funding been secured for project ®? No

Q. Has O&M funding been secured ®? Yes

OCWD pays for the O&M costs of capital projects through the revenue generated by the Replenishment Assessment (RA) payments from groundwater producers. Semiannually, OCWD collects RA from member agencies that pump groundwater from OCWD's groundwater basin. Every fiscal year, OCWD budgets the O&M costs of each project under the general fund.



F. Project Information and Technical Feasibility

Q. Project Name (200 characters): Orange County Regional Stormwater Infiltration Program

Q. Project Description (1,000 characters):

This project will create a program to develop new regional infiltration facilities and expand existing facilities to capture stormwater runoff from new development and significant redevelopment at various sites throughout Orange County in cases where on-site capture and infiltration is infeasible due to site constraints, such as soil conditions, groundwater levels, and soil or groundwater contamination, or has potential to cause or contribute to degradation of groundwater quality.

Q. Goals and Objectives of the Project (1,000 characters):

Improve water quality of surface water bodies through the capture of stormwater runoff from new developments and significant redevelopments and to increase infiltration of stormwater into the groundwater basin.

Q. Purpose and Need of the Project (1,000 characters):

On-site retention and infiltration of a specified quantity of stormwater runoff from new development and significant redevelopment is required by the new Orange County stormwater permit (R-2009-0030) issued in 2009 by the Santa Ana Regional Water Quality Control Board to comply with Section 402 of the federal Clean Water Act. In cases where on-site retention of stormwater is infeasible, the provisions in the permit allow the creation of a program for regional infiltration. Orange County Water District has been operating a series of recharge facilities similar to the type proposed by this project since 1953 to allow surface water to percolate into the Orange County Groundwater Basin. Use of regional recharge facilities can be an effective mechanism used to achieve compliance with permit conditions.

Q. Are there any significant institutional/technical barriers to project? No

No

G. Resources Stewardship and Sustainability

Landuse

Q. Does the project employ resource efficient landuse (LID, LEED, or Ahwahnee Principles)? Yes 100%

Q. Percentage of the project footprint that implements resource efficient landuse:

Describe the resource efficient landuse practices implemented (1000 characters):

New development and significant re-development projects will be required to implement on-site LID principles in their project design. There are site-specific cases where retaining stormwater and infiltrating on-site will not be feasible due to geotechnical issues, the potential to degrade groundwater quality, and other factors. This proposed Regional Stormwater Infiltration Program will provide a mechanism to capture and infiltrate stormwater at a regional facility while at the same time accomplishing the goal of reducing the impacts on surface water quality from stormwater runoff.

Q. What are the impacts to natural hydrology and alluvial fans? Positive Impacts

Describe impacts (1000 characters):

New development and significant redevelopment projects that participate in the regional stormwater infiltration program will have implemented LID principles on-site. As part of the permit requirements, these developments will be required to design the development in a manner that mimics pre-development hydrology.

Climate Change Adaptation

Describe how the project adapts to the potential effects of climate change (1000 characters):

Increasing the amount of infiltration of surface water into the groundwater basin increases the quantity and reliability of local water supplies. The additional amount of water that can be pumped for drinking water replaces an equivalent amount of imported water, which reduces the expenditure of energy to bring the imported water into the region. To the degree that an increase in availability of groundwater as a drinking water supply, this project assists the CALFED process by reducing the Orange County region's dependence on water transferred through the Sacramento-San Joaquin delta and conforms to the California State Constitution by acknowledging the value of water and the reasonable use of the State's limited water supplies.



G. Resources Stewardship and Sustainability Cont.

Greenhouse Gas Emissions

- Q. Reduction of greenhouse gas emissions achieved by project NA (metric tons CO2 /year)[®]
 - Q. If this is a water supply project that depends on metered energy resources, estimate NA (KWh/Acre foot)[®]
- Describe the measures to reduce greenhouse gas emissions of your project (1,000 characters)[®]:

NA

H. Strategic Considerations

- Q. Where do the benefits of the projects accrue [®]? NA

serve sub-watershed

Orange County

Describe project synergies and linkages that result in added value, and coordinated implementation and/or operation (1,000 characters)[®]:

The Santa Ana Regional Water Quality Control Board issued the County of Orange a new stormwater permit in 2009. The county convened a technical advisory committee, which included representatives of cities, businesses, environmental groups, water and waste water districts, and others, to assist them in the development of a New Developments/Significant Redevelopment Program. This group provided technical advice to permittees in the development of various aspects of the new stormwater program, including creation of a regional infiltration program. OCWD staff actively participated as a member of this technical advisory committee

I. Disadvantaged/Native American Tribal Communities

- Q. Does project provide direct benefits to disadvantaged communities [®]? No
- Q. Does project provide direct benefits to Native American tribal communities [®]? No
- Q. Percentage of the project benefiting disadvantaged communities [®]: 0%
- Q. Percentage of the project benefiting Native American tribal communities [®]: 0%

Describe the benefits to disadvantaged and/or Native American tribal communities (1,000 characters)[®]:

Benefits can not be determined at this time as the location of recharge facilities has not been identified

J. Environmental Justice

- Q. How does the proposed project address any Environmental Justice concerns [®]?

Benefits can not be determined at this time as the location of recharge facilities has not been identified.

K. Water Resource Management Strategies

Indicate the strategies that the project addresses [®]:
Check all that apply, and indicate performance metrics for those checked

Purpose Description	Metric	Unit
Stormwater capture	1,000	Flows captured (AFY)
Non-point source and stormwater pollution reduction	5	Water treated (mgd)
Groundwater recharge (new or restored)	1,000	Recharge capacity (AFY)



L. Economic Incentives

Q. Number of jobs created by project ®:
construction 30 (# of individuals)
operational 2 (# of individuals)

M. Project Readiness/Status

Q. What is the status of the project ®?
Planning studies completed

Q. CEQA Status ® *Not Applicable*

Q. NEPA Status *Not Applicable*

Q. Estimated completion date of project ®: 06/31/13

Q. Estimated operational life of project ®: 6/31/43

Q. Has your agency constructed similar projects in the past ®? Yes

