

**East Garden Grove-Wintersburg Channel (OCFCD Facility No. C05) from downstream Beach Boulevard to downstream Woodruff Street (including undercrossing at Beach Blvd).**

Project ID:3086

5/11/2015  
11:11:50 AM

Lead Agency:

Agency: Orange County, Public Works, Infrastructure Programs, Capital Programs

Project Director: Sam Ali

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General Project Information:

Name: East Garden Grove-Wintersburg Channel (OCFCD Facility No. C05) from downstream Beach Boulevard to downstream Woodruff Street (including undercrossing at Beach Blvd).

Description: This channel was constructed in the 1959 designed to convey the 25-year storm event. This channel is in a FEMA Special Flood Hazard Area, Zone A, and remains hydraulically deficient. The existing geometrics of this channel is a trapezoidal channel (bottom width is 8-ft, side slope is 1.5 to 1.5) lined with riprap. The channel will ultimately be improved to convey the 100-year storm event; the length is approximately 3,000 feet.

Goals/Objectives:

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The existing channel is an earthen bottom trapezoidal channel. It is 18 feet wide at the base with wall height averaging 11.5 feet. It has 1.5:1 side slopes (horizontal: vertical) lined with riprap rocks. Constructed in 1960s, it was designed to convey 65% of the 25-year peak discharge. Access roadway is located on both sides of the channel for maintenance vehicular access.

The proposed improvement includes reinforced concrete lined channel with 60-foot base width and channel height of varying between 17 to 18-feet high with maintenance road on both sides of the channel. The land use element surrounding this channel segment consisted of a mixed residential single family to low to medium high density residential and general commercial neighborhood on both sides of the channel. The general area is under Zone A of the FEMA FIRM panel no. 06059C0251J dated December 3, 2009.

Plans and engineering specifications will be prepared for the construction of the improvement of the 2,329-foot segment of the EGGW Channel for the specified project limits. Regulatory permits will be applied for the US Army Corps of Engineers, the Regional Water Quality Control Board, and Department of Fish and Game.

## Need:

The East Garden Grove-Wintersburg Channel (EGGWC), OCFCD Facility No. C05, is an approximately 11.8 mile long regional flood control facility in north/central Orange County. The EGGWC is currently the largest flood threat in Orange County. The EGGWC system was designed and built in the 1960s to convey 65% of the 25-year peak discharge (approximately a 10-year storm event). EGGWC is inadequate to convey the 100-year storm frequency design discharge and does not provide the desired level of regional flood protection as mandated by the Federal Emergency Management Agency (FEMA) for adjacent properties to be outside the inundation area of the 1% annual chance flood event.

A segment of the EGGWC, from downstream Beach Boulevard to downstream Woodruff Street is in need of improvement to convey the 100- year storm runoff. Its limits are from Station 225+85 upstream of Oceanview Channel (C06) confluence to downstream of Beach Boulevard at Station 249+14. This 2,329-foot channel segment is currently an earthen bottom trapezoidal section. It is lined with riprap stones and has a base width of 18 feet and wall height averaging 11.5 feet. The existing channel is deficient; capacity is 65% of a 25-year storm event.

Meets statutory eligibility gates of 2015 IRWM Grant Funding:

No

## IRWM Goals:

Safely co-manage flood protection and water conservation.  
Maintain quality of life.

## IRWM Type

OWOW Plan

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Project Type: Construction

Latitude: 33.72489 Longitude: -117.98537

Project Location: Project is construction improvements to Orange County Flood Control District (OCFCD) Facility No. C05, East Garden Grove-Wintersburg Channel located in Orange County, Cities of Huntington Beach and Westminster.

Benefit Zone Area (mi2): 71

## Project Benefits:

Benefits	Applicable
Water supply reliability, conservation and water-use efficiency	No
Stormwater capture, storage, cleanup, treatment and management	No
Removal of invasive species; wetlands creation or enhancement; acquisition, protection and restoration of open space	No
Non-point source pollution reduction, management, monitoring	No
Groundwater recharge and management	No
Contaminant and salt removal, reclamation, desalting and conveyance to users	No
Water banking, exchange, reclamation and improvement of water quality	No
Multipurpose flood and stormwater management programs	Yes
Watershed protection and management	Yes
Drinking water treatment and distribution	No
Ecosystem and fisheries restoration and protection	No

## Where Benefits Accrue:

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- Jurisdiction:** Multiple Communities
- Explanation:** The benefactors are residences and businesses from Cities of Huntington Beach, Westminster, Fountain Valley, Garden Grove, and Santa Ana.
- Watershed/Sub-region:** Entire Watershed
- Explanation:** The East Garden Grove-Wintersburg Watershed has a drainage area of 17,984 acres. It is within the "C" Watershed which has a drainage area of 68,164 acres.
- Synergies:** The OCFCD's goal and plans work towards FEMA & National Flood Insurance Program's (NFIP) efforts in protecting property and lives from the threat of flood damage from storms. When the project has been completed, the OCFCD submits a Letter of Map Revision (LOMR) to FEMA to revise Flood Insurance Rate Map (FIRM) to reflect the floodplain as removed or diminished to containment within the channel facility alleviating the costly mandatory flood insurance premiums imposed on the benefactors, the residents and businesses from that community (s).

## Benefits to Disadvantaged Communities (DAC) and Native Tribal Communities (NATC)

100% DAC:	No	Portion DAC:	Yes	DAC %:	40
100% NATC:	No	Portion NATC:	No	NATC %:	0

Project area benefiting DAC (acres) : 16128

Describe DAC and NATC Benefits:

Property and lives would be protected from the threat of flood damage and the FEMA Flood Insurance Rate Map will be revised to reflect the 100-year to be contained in channel alleviating the costly mandatory flood insurance premiums imposed on the DAC.

Human Right to Water:

N/A

Environmental Justice:

This project does not propose to address any environmental justice concerns.

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Project Partners:

Project ID: **3086**

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Agency Name	Contact	Phone	Email	Collab Planning	Direct Funding	In-Kind Service	Co-Manager
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Project Funding:

Category	Amount	Percent
Total Project Cost	\$9,600,000.00	100
Requested OWOW 2015 Funding	\$0.00	0
Match Contribution	\$9,600,000.00	100
Local Contribution	\$9,600,000.00	100
Federal Contribution	\$0.00	0
In-Kind Contribution	\$0.00	0
Other	\$0.00	0
SRF Loan	\$0.00	999

Annual O&M Costs: \$192,000.00

Funding Secured: No

Explain: NA

O&M Funding Secured: No

Explain: NA

Project Criteria:

Criteria	Metric	Description
Flood Risk Reduction	2.01778e+009 \$	NA

Project Status:

Project Status: Conceptual design (15%) completed

Est. Complete Date: 06/30/2021      Est. Operational Life (years): 100

Agency Constructed Similar Projects : Yes

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CEQA Status: In Progress

Date: 06/30/2020

NEPA Status: Not Applicable

Date: NA

Project Attachments:

Type	FileName
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Project Complete: Yes

Project Active: Yes