

Washington, D.C. 20472

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Tom Tait Mayor, City of Anaheim 200 South Anaheim Blvd Anaheim, CA 92805 IN REPLY REFER TO:

RBF CONSULTING

Case No.: 13-09-0961P

Community Name: City of Anaheim, CA

Community No.: 060213

Effective Date of

This Revision: November 1, 2013

### Dear Mayor Tait:

The Flood Insurance Study Report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Oakland, California, at (510) 627-7175, or the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at http://www.fema.gov/nfip.

Sincerely,

Beth A. Norton, Program Specialist Engineering Management Branch

Beth a Norton

Federal Insurance and Mitigation Administration

For: Luis Rodriguez, P.E., Chief Engineering Management Branch

Federal Insurance and Mitigation Administration

List of Enclosures:

Letter of Map Revision Determination Document Annotated Flood Insurance Rate Map Annotated Flood Insurance Study Report

cc: Mr. Jonathan Borrego, Principal Planner City of Anaheim Planning Department 200 South Anaheim Boulevard Anaheim, CA 92805

Mr. Ricardo Pineda, P.E., CFM State of California Floodplain Manager California Department of Water Resources 3464 El Camino Avenue, Suite 200 Sacramento, CA 95821

Mr. Michael A. Dole, P.E. RBF Consulting 14725 Alton Parkway Irvine, CA 92618 bcc: Regional Administrator R9-MT PTS: BA: AH: skulkarni pts

MT-RA-EM: B.A. Norton, Program Specialist

State Coordinator

RSC-9

LOMC Subscription Service



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## LETTER OF MAP REVISION DETERMINATION DOCUMENT

	COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST	
COMMUNITY	City of Anaheim Orange County California		NO PROJECT	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA	
	COMMUNITY NO.: 060213				
IDENTIFIER	Atwood Channel Floodplain S	tudy	APPROXIMATE LATITUDE & LONGITUDE: 33.867, -117.818 SOURCE: Other DATUM: NAD 83		
	ANNOTATED MAPPING EN	CLOSURES	ANNOTATED STUDY ENCLOSURES		
TYPE: FIRM* TYPE: FIRM	NO.: 06059C0152J NO.: 06059C0156J	DATE: December 3, 2009 DATE: December 3, 2009	DATE OF EFFECTIVE FLOOD INSURA SUMMARY OF DISCHARGES TABLE: 7		

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

#### FLOODING SOURCE(S) & REVISED REACH(ES)

Atwood Channel - from just upstream of the intersection of Orangethorpe Avenue and Lakeview Avenue to just downstream of the intersection of Orangethorpe Avenue and East Richfield Channel

SUMMARY OF REVISIONS					
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases	
Atwood Channel	Zone A	Zone A	NONE	YES	
	Zone AH	Zone AO	NONE	YES	
	Zone AO	Zone AO	NONE	YES	
	Zone AH	Zone AH	YES	YES	

### DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.



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# LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### FLOODING SOURCE(S) & REVISED REACH(ES)

Atwood Channel - from just upstream of the intersection of Orangethorpe Avenue and Lakeview Avenue to just downstream of the intersection of Orangethorpe Avenue and East Richfield Channel

Flooding Source	SUMMARY OF REVISIONS			
	Effective Flooding	Revised Flooding	Increases	Decreases
Atwood Channel	Zone A	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES
	Zone AO	Zone X (shaded)	NONE	YES
	Zone AH	Zone X (shaded)	NONE	YES
	BFEs*	BFEs	YES	YES

\* BFEs - Base Flood Elevations

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.



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# LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### COMMUNITY INFORMATION

#### APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

#### COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.



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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Sally M. Ziolkowski
Director, Mitigation Division
Federal Emergency Management Agency, Region IX
1111 Broadway Street, Suite 1200
Oakland, CA 94607-4052
(510) 627-7175

### STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.



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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below and through FEMA's Flood Hazard Mapping website at <a href="https://www.floodmaps.fema.gov/fhm/Scripts/bfe">https://www.floodmaps.fema.gov/fhm/Scripts/bfe</a> main.asp.

LOCAL NEWSPAPER

Name: Anaheim Bulletin

Dates: June 27, 2013 and July 4, 2013

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination information presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

TABLE 7 – SUMMARY OF DISCHARGES

FLOODING SOURCE	DRAINAGE AREA (sq. miles)	10-PERCENT	PEAK DISCH 2-PERCENT	IARGES (cfs) 1-PERCENT	0.2-PERCENT
THIS ECCHION	(sq. imics)	101 LICENT	2-1 LICELVI	1-1 ERCEIVI	O.E-I ENCEIVI
ALAMEDA STORM CHANNEL At confluence Santiago					
Creek Approximately 800 feet downstream of Orange	4.5	850	2,100	2,800	5,100
Park Acres Boulevard	4.1	800	2,000	2,700	4,800
ALIPAZ STORM CHANNEL At confluence Trabuco					
Creek	0.6	86	250	400	890
At Alpaz Street	0.3	50	140	220	490
ANAHEIM-BARBER CITY CHANNEL					
At Euclid Street	3.9	500	950	1,300	2,800
At Cerritos Avenue	1.8	300	550	750	1,600
At Ball Road	1.3	230	450	600	1,300
AGUA CHINON WASH					
At San Diego Creek	11.4	1,600	3,800	5,100	9,300
At Santa Ana Freeway	10.4	1,400	3,200	4,700	8,300
ATWOOD CHANNEL At confluence Miller Basin-Carbon Canyon	0.4	1.700	4.000	5.500	11.000
Diversion Channel Upstream of confluence	9.4	1,700	4,000	5,500	11,000
Richfield Channel	4.9	750	1,700	2,750	4,700
At Taylor Street	2.2	690	1,600	2,050	4,300
At Imperial Highway	1.8	500	1,100	1,800	2,900
BARRANCA CHANNEL At confluence San Diego	,	REVISEI	DATA		
Creek	2.3	340	740	1,000	1,900
At Barranca Road	1.2	210	450	630	1,150
At Red Hill Avenue	0.7	150	330	400	850
BEE CANYON WASH					
At San Diego Creek	2.2	900	1,400	1,800	4,200
At Santa Ana Freeway	1.7	900	1,100	1,600	8,000

REVISED TO REFLECT

LOMR EFFECTIVE: NOVEMBER 1, 2013



