

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 3 OF 9



LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

*No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

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Version Number 2.3.3.2



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COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

*No Special Flood Hazard Areas Identified

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Published Separately

Flood Insurance Rate Map (FIRM)

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Digital Data	City of Santa Clarita	2019	1:6,000	Corporate limits for the City of Santa Clarita
Digital Vector Data	U.S. Geological Survey (USGS)	1989	1:24,000	Spatial and attribute information for the index of USGS 7.5-Minute Series Topographic Map boundaries
Digital Orthophoto	U.S. Geological Survey (USGS)	2004	1:12,000	Spatial and attribute information for some streamlines, roads and some general structures
Digital Orthophoto	U.S. Dept. of Agriculture - Farm Service Agency	2014	1:12,000	Digital ortho imagery for Los Angeles County, CA
Digital Vector Data	Bureau of Land Management	2008	1:12,000	Spatial and attribute information for PLSS Section, Township, and Range Gridlines
Digital Vector Data	GreenInfo Network - California Protected Areas Database	2014	1:12,000	Spatial and attribute information for National Forests.
Digital Vector Data	Los Angeles County	2013	1:12,000	Spatial and attribute information for political boundaries for Los Angeles County and Incorporated areas
Digital Vector Data	Bureau of Land Management	2005	1:12,000	Spatial and attribute information for Federal Lands and Military base
Digital Vector Data	U.S. Dept. of Commerce, U.S. Census Bureau, Geography Division	2014	1:12,000	Spatial and attribute information for transportation labels

6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations .

For riverine flooding sources , the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23 . For each coastal flooding source studied as part of

this FIS Report , the mapped floodplain boundaries on the FIRM have been delineated using the flood and wave elevations determined at each transect; between transects, boundaries were delineated using land use and land cover data, the topographic elevation data described in Table 23 , and knowledge of coastal flood processes. In ponding areas, flood elevations were determined at each junction of the model; between junctions, boundaries were interpolated using the topographic elevation data described in Table 23 .

In cases where the 1% and 0.2 % annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown . Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report .

indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24 , “Floodway Data.”

Certain flooding sources may have been studied that do not have published BFEs on the FIRMs, or for which there is a need to report the 1% annual chance flood elevations at selected cross sections because a published Flood Profile does not exist in this FIS Report . These streams may have also been studied using methods to determine non - encroachment zones rather than floodways. For these flooding sources , the 1% annual chance floodplain boundaries have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23 . All topographic data used for modeling or mapping has been converted as necessary to NAVD 88. The 1% annual chance elevations for selected cross sections along these flooding sources, along with their non-encroachment widths, if calculated, are shown in Table 25 , “Flood Hazard and Non-Encroachment Data for Selected Streams .”

Table 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Scale	Contour Interval	Citation
Los Angeles County and Incorporated Areas	All studied streams within this FIS report	LiDAR	1:100	2 ft	Los Angeles Region Imagery Acquisition Consortium (LAR-IAC)
El Segundo, City of; Hermosa Beach, City of; Long Beach, City of; Los Angeles, City of; Los Angeles County, Unincorporated Areas; Malibu, City of; Manhattan Beach, City of; Palos Verdes Estates, City of; Rancho Palos Verdes, City of; Redondo Beach, City of; Santa Monica, City of; Torrance, City of	Pacific Ocean	LiDAR OPC/ USGS 2009-2011 & BATHY NOAA	N/A	2 ft	USGS, 2009-2011

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report . Rounded whole -foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations.

Table 24: Floodway Data

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,735	370	1,078	3.8	2,704.4	2,704.4	2,705.2	0.8
B	2,976	416	928	4.4	2,712.9	2,712.9	2,713.9	1.0
C	3,746	214	274	6.1	2,726.4	2,726.4	2,727.2	0.8
D	4,256	138	231	7.2	2,742.7	2,742.7	2,742.8	0.1
E	4,424	114	225	7.4	2,746.6	2,746.6	2,747.3	0.7
F	5,055	167	250	6.7	2,761.3	2,761.3	2,762.3	1.0
G	6,299	78	193	8.6	2,793.3	2,793.3	2,793.4	0.1
H	7,319	79	199	8.4	2,819.0	2,819.0	2,819.1	0.1
I	8,239	80	203	8.2	2,841.0	2,841.0	2,841.0	0.0
J	8,961	112	224	7.5	2,858.1	2,858.1	2,859.1	1.0
K	9,619	88	196	8.5	2,878.1	2,878.1	2,878.4	0.3

¹ Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: ACTON CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ²	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A-K ¹	*	*	*	*	*	*	*	*
L	17,397	81	295	10.2	2,291.4	2,291.4	2,292.1	0.7
M	18,414	50	250	12.1	2,347.1	2,347.1	2,347.9	0.8
N	19,336	53	247	12.2	2,367.3	2,367.3	2,367.4	0.1
O	20,524	52	272	11.1	2,426.4	2,426.4	2,427.0	0.6
P	21,149	88	294	10.3	2,464.5	2,464.5	2,465.5	1.0
Q	22,200	130	335	9.0	2,485.0	2,485.0	2,485.8	0.8
R	23,354	154	427	7.1	2,506.0	2,506.0	2,507.0	1.0
S	24,575	135	366	8.2	2,525.5	2,525.5	2,526.4	0.9
T	25,631	155	357	8.4	2,541.6	2,541.6	2,542.2	0.6
U	26,548	165	406	7.4	2,556.1	2,556.1	2,557.1	1.0
V	27,778	162	387	7.8	2,575.7	2,575.7	2,576.7	1.0
W	29,633	59	268	11.3	2,611.1	2,611.1	2,611.2	0.1
X	30,819	234	835	4.4	2,634.9	2,634.9	2,635.1	0.2
Y	32,155	130	240	7.4	2,660.2	2,660.2	2,660.7	0.5
Z	33,203	100	234	7.6	2,678.3	2,678.3	2,678.9	0.6
AA	34,151	49	177	10.0	2,694.9	2,694.9	2,695.0	0.1
AB	34,954	60	180	9.9	2,711.8	2,711.8	2,711.8	0.0
AC	35,956	105	217	8.1	2,734.8	2,734.8	2,735.7	0.9
AD	36,779	127	238	7.4	2,752.9	2,752.9	2,753.7	0.8
AE	37,903	132	244	7.3	2,779.9	2,779.9	2,780.8	0.9
AF	39,187	113	241	7.3	2,807.7	2,807.7	2,808.1	0.4
AG	40,612	116	246	7.2	2,842.4	2,842.4	2,842.4	0.0
AH	41,244	65	194	9.1	2,859.3	2,859.3	2,860.0	0.7
AI	41,960	90	212	8.4	2,876.0	2,876.0	2,876.5	0.5

¹ Floodway not computed

² Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: AGUA DULCE CANYON CREEK
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Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,220	104	354	10.5	2,744.4	2,744.4	2,744.4	0.0
B	1,410	105	342	10.9	2,745.2	2,745.2	2,745.2	0.0
C	2,110	310	535	7.0	2,756.3	2,756.3	2,756.4	0.1
D	2,400	285	403	9.3	2,760.6	2,760.6	2,761.0	0.4
E	3,020	579 ²	596	6.3	2,768.9	2,768.9	2,768.9	0.0
F	4,090	257 ²	436	8.6	2,785.3	2,785.3	2,785.9	0.6
G	4,371	480	549	6.8	2,800.2	2,800.2	2,800.7	0.5
H	4,476	480	3261	1.1	2,801.2	2,801.2	2,801.9	0.7
I	5,251	140	391	9.5	2,803.2	2,803.2	2,803.2	0.0
J	8,501	57 ³	292	12.4	2,859.5	2,859.5	2,859.5	0.0
K	8,871	53 ³	329	11.0	2,869.2	2,869.2	2,869.2	0.0
L	9,261	80 ³	372	9.8	2,875.4	2,875.4	2,875.4	0.0
M	9,711	105 ³	488	7.4	2,879.8	2,879.8	2,880.3	0.5
N	10,191	127 ³	342	9.4	2,886.7	2,886.7	2,886.7	0.0
O	12,251	139 ³	549	5.8	2,905.7	2,905.7	2,905.7	0.0
P	12,581	139 ³	432	7.4	2,907.6	2,907.6	2,907.6	0.0
Q	13,291	220	1008	3.2	2,914.0	2,914.0	2,914.1	0.1
R	13,561	220	1401	2.3	2,914.4	2,914.4	2,914.6	0.2
S	13,941	250	997	3.2	2,914.6	2,914.6	2,914.9	0.3
T	14,381	139	333	7.3	2,916.2	2,916.2	2,916.6	0.4
Y	18,091	115	812	3.0	2,928.4	2,928.4	2,928.5	0.1
V	18,341	31	300	8.1	2,928.6	2,928.6	2,928.7	0.1
W	18,611	31	272	9.0	2,931.8	2,931.8	2,931.8	0.0

¹ Feet upstream of Division Street

² Area of stilling basin – no floodway determined between cross sections

³ Lies entirely outside corporate limits of City of Palmdale

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: ANAVERDE CREEK
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Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	871	301	1,324	11.9	1,150.7	1,150.7	1,150.7	0.0
B	1,490	180	1,117	14.1	1,157.1	1,157.1	1,157.2	0.1
C	2,503	109	940	16.7	1,169.7	1,169.7	1,169.7	0.0
D	3,450	110	810	15.4	1,177.5	1,177.5	1,177.5	0.0
E	4,081	97	943	13.2	1,185.5	1,185.5	1,185.6	0.1
F	4,270	119	1,059	11.7	1,196.1	1,196.1	1,196.1	0.0
G	5,793	154	932	13.4	1,202.5	1,202.5	1,202.5	0.0
H	6,789	140	902	13.8	1,209.2	1,209.2	1,209.2	0.0
I	7,737	96	777	16.0	1,225.3	1,225.3	1,225.4	0.1
J	8,541	119	845	14.7	1,233.9	1,233.9	1,233.9	0.0
K	9,474	93	772	16.1	1,244.0	1,244.0	1,244.0	0.0
L	10,221	117	963	12.9	1,250.3	1,250.3	1,250.3	0.0
M	11,427	116	855	14.5	1,260.5	1,260.5	1,260.5	0.0
N	12,252	117	833	14.9	1,267.7	1,267.7	1,267.7	0.0
O	12,804	115	1,062	11.7	1,273.4	1,273.4	1,273.4	0.0
P	13,543	114	678	13.8	1,288.5	1,288.5	1,288.5	0.0
Q	14,474	118	737	12.7	1,296.7	1,296.7	1,296.7	0.0
R	15,369	113	673	13.9	1,305.2	1,305.2	1,305.2	0.0
S	16,641	108	665	14.1	1,318.8	1,318.8	1,318.8	0.0
T	17,823	113	679	13.8	1,334.6	1,334.6	1,334.6	0.0
U	19,072	144	642	13.3	1,350.2	1,350.2	1,350.2	0.0
V	19,993	122	758	11.2	1,362.8	1,362.8	1,362.8	0.0
W	20,653	112	634	13.4	1,375.1	1,375.1	1,375.1	0.0
X	21,879	260	928	8.9	1,395.5	1,395.6	1,396.5	0.9
Y	22,833	240	909	9.1	1,411.1	1,411.1	1,411.2	0.1
Z	23,865	290	1211	6.8	1,423.0	1,423.0	1,424.0	1.0

¹ Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: BOUQUET CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	24,681	228	1,060	7.8	1,431.9	1,431.9	1,432.8	0.9
AB	26,167	230	945	8.7	1,450.4	1,450.4	1,450.7	0.3
AC	27,010	400	1,202	6.9	1,460.5	1,460.5	1,460.5	0.0
AD	28,175	194	888	9.3	1,472.6	1,472.6	1,473.2	0.6
AE	29,194	144	944	8.7	1,486.6	1,486.6	1,487.1	0.5
AF	30,399	174	834	9.9	1,503.8	1,503.8	1,504.2	0.4
AG	31,621	418	1,109	6.9	1,518.5	1,518.5	1,518.6	0.1
AH	32,277	400	1,287	6.0	1,525.5	1,525.5	1,526.2	0.7
AI	32,999	288	854	9.0	1,535.6	1,535.6	1,535.6	0.0
AJ	34,455	324	830	9.3	1,551.5	1,551.5	1,551.6	0.1
AK	35,342	376	1,223	6.3	1,565.0	1,565.0	1,565.0	0.0
AL	36,384	274	958	8.0	1,576.9	1,576.9	1,577.5	0.6
AM	37,073	199	806	9.5	1,584.9	1,584.9	1,585.1	0.2
AN	37,655	406	936	8.2	1,594.6	1,594.6	1,595.0	0.4
AO	38,104	380	1,165	6.6	1,601.0	1,601.0	1,601.5	0.5
AP	38,991	170	739	10.4	1,615.3	1,615.3	1,616.0	0.7
AQ	40,044	136	440	9.5	1,628.5	1,628.5	1,629.2	0.7
AR	41,015	92	416	10.1	1,641.5	1,641.5	1,641.6	0.1

¹ Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: BOUQUET CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	513	152	340	7.0	2,717.7	2,717.7	2,718.6	0.9
B	846	130	331	7.2	2,722.3	2,722.3	2,722.7	0.4
C	1,539	134	306	7.8	2,731.6	2,731.6	2,731.9	0.3
D	1,877	159	341	7.0	2,737.1	2,737.1	2,737.7	0.6
E	2,909	112	294	8.1	2,752.8	2,752.8	2,753.4	0.6
F	3,472	171	335	7.1	2,761.8	2,761.8	2,762.5	0.7
G	4,373	176	345	6.9	2,776.5	2,776.5	2,777.3	0.8
H	4,686	109	315	7.6	2,783.1	2,783.1	2,784.0	0.9
I	5,637	125	330	7.2	2,802.9	2,802.9	2,803.9	1.0
J	6,249	126	314	7.6	2,816.4	2,816.4	2,816.7	0.3
K	6,387	127	284	8.4	2,820.7	2,820.7	2,821.2	0.5
L	6,790	105	289	8.3	2,827.9	2,827.9	2,828.7	0.8
M	7,305	100	277	8.6	2,838.6	2,838.6	2,839.0	0.4
N	7,450	115	348	6.9	2,841.5	2,841.5	2,842.4	0.9
O	7,526	72	257	9.3	2,846.0	2,846.0	2,846.4	0.4
P	7,746	80	243	9.8	2,848.6	2,848.6	2,849.4	0.8
Q	8,238	72	249	9.6	2,861.3	2,861.3	2,861.8	0.5
R	8,625	154	342	7.0	2,869.6	2,869.6	2,870.3	0.7
S	8,772	151	319	7.5	2,872.9	2,872.9	2,873.6	0.7

¹ Feet above confluence with Acton Canyon

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: ESCONDIDO CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	297	70	284	11.7	1,277.8	1,277.8	1,277.8	0.0
B	595	43	247	13.5	1,279.7	1,279.7	1,279.7	0.0
C	924	47	260	12.8	1,281.0	1,281.0	1,281.1	0.1
D	1,081	47	302	11.0	1,282.8	1,282.8	1,282.8	0.0
E	1,300	59	272	12.2	1,284.3	1,284.3	1,284.3	0.0
F	1,864	47	249	13.4	1,299.8	1,299.8	1,299.8	0.0
G	2,839	47	251	13.2	1,313.1	1,313.1	1,313.1	0.0
H	3,505	48	253	13.1	1,322.7	1,322.7	1,322.7	0.0
I	4,713	48	252	13.2	1,338.7	1,338.7	1,338.7	0.0
J	5,470	54	399	8.3	1,349.6	1,349.6	1,349.6	0.0
K	5,866	82	305	10.9	1,353.5	1,353.5	1,353.5	0.0
L	6,095	86	309	10.8	1,360.0	1,360.0	1,360.0	0.0
M	6,422	98	323	10.3	1,364.4	1,364.4	1,364.4	0.0
N	7,389	109	335	9.9	1,379.9	1,379.9	1,380.0	0.1
O	7,940	244	450	7.4	1,387.4	1,387.4	1,387.4	0.0

¹ Feet above confluence with Bouquet Canyon Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: HASKELL CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	257	53	112	6.6	1711.0	1711.0	1712.0	1.0
B	956	46	90	8.3	1720.4	1720.4	1720.4	0.0
C	1778	28	74	10.2	1735.5	1735.5	1735.5	0.0
D	2561	46	119	9.3	1758.3	1758.3	1758.3	0.0
E	3165	59	78	9.5	1776.4	1776.4	1776.4	0.0
F	3872	43	114	10.0	1797.7	1797.7	1797.7	0.0
G	4443	32	77	9.6	1819.1	1819.1	1819.1	0.0
H	4852	41	97	7.7	1832.3	1832.3	1832.8	0.5
I	5225	55	94	7.9	1848.6	1848.6	1848.6	0.0
J	5701	47	80	9.3	1868.1	1868.1	1868.1	0.0
K	6159	34	81	9.2	1890.4	1890.4	1890.4	0.0
L	6739	43	86	8.6	1917.7	1917.7	1917.7	0.0
M	7579	38	86	8.7	1971.9	1971.9	1971.9	0.0
N	8128	13	61	12.3	2007.4	2007.4	2007.5	0.1
O	8702	49	95	7.9	2055.7	2055.7	2055.7	0.0

¹ Feet above confluence with Sand Canyon Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: IRON CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	650	100	149	7.23	1,150.8	1,150.8	1,150.8	0.0

¹ Feet upstream of Northwest Edge of Osborne Street

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: KAGEL CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A ²	2	*	*	*	1,431.3	1,431.3	*	*
B ²	272	*	*	*	1,433.1	1,433.1	*	*
C ²	501	*	*	*	1,433.7	1,433.7	*	*
D ²	808	*	*	*	1,435.1	1,435.1	*	*
E ²	946	*	*	*	1,438.2	1,438.2	*	*
F ²	1,839	*	*	*	1,456.3	1,456.3	*	*
G	4,675	691	1,230	4.8	1,505.3	1,505.3	1,505.7	0.4
H	5,701	489	1,005	5.8	1,520.7	1,520.7	1,521.2	0.5
I	6,829	352	1,006	5.8	1,538.6	1,538.6	1,538.9	0.3
J	7,415	336	921	6.4	1,547.1	1,547.1	1,547.3	0.2
K	8,436	249	825	7.1	1,562.5	1,562.5	1,563.2	0.7
L	9,788	425	944	6.2	1,582.3	1,582.3	1,583.3	1.0
M	10,896	295	859	6.8	1,598.5	1,598.5	1,598.8	0.3
N	12,426	254	521	11.2	1,620.7	1,620.7	1,620.9	0.2
O	13,605	292	859	6.8	1,642.4	1,642.4	1,642.4	0.0
P	15,063	252	782	7.4	1,662.7	1,662.7	1,662.7	0.0
Q	16,579	68	475	12.2	1,685.1	1,685.1	1,685.8	0.7
R	18,221	211	928	6.3	1,709.2	1,709.2	1,709.7	0.5
S	19,139	572	1,265	4.6	1,724.7	1,724.7	1,724.9	0.2
T	19,660	295	786	6.7	1,732.2	1,732.2	1,732.6	0.4
U	20,687	426	1,040	5.1	1,748.4	1,748.4	1,748.9	0.5
V	21,586	309	798	6.6	1,764.6	1,764.6	1,765.0	0.4
W	22,614	88	472	11.2	1,782.4	1,782.4	1,782.5	0.1
X	23,495	230	978	5.4	1,796.0	1,796.0	1,796.8	0.8
Y	24,530	232	842	6.3	1,812.5	1,812.5	1,813.0	0.5
Z	25,461	219	630	8.4	1,825.8	1,825.8	1,826.1	0.3

¹ Feet above Santa Clara River Trail

² Floodway not computed

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: MINT CANYON CREEK
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Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	26,219	245	923	5.7	1,839.1	1,839.1	1,839.7	0.6
AB	27,123	366	640	8.3	1,852.6	1,852.6	1,852.6	0.0
AC	27,895	186	788	6.7	1,864.8	1,864.8	1,865.4	0.6
AD	28,728	164	673	7.9	1,876.6	1,876.6	1,877.5	0.9
AE	29,364	219	665	7.9	1,890.1	1,890.1	1,890.3	0.2
AF	30,207	200	748	7.1	1,902.7	1,902.7	1,903.5	0.8
AG	31,208	165	975	5.4	1,919.7	1,919.7	1,920.4	0.7
AH	31,881	214	735	7.2	1,929.2	1,929.2	1,929.5	0.3
AI	32,486	228	782	6.8	1,938.9	1,938.9	1,939.3	0.4
AJ	33,030	230	667	7.9	1,949.3	1,949.3	1,950.2	0.9
AK	34,049	171	667	7.9	1,963.5	1,963.5	1,963.7	0.2
AL	34,594	130	597	8.9	1,973.7	1,973.7	1,973.7	0.0
AM	35,535	90	498	10.0	1,989.5	1,989.5	1,990.0	0.5
AN	36,291	178	839	6.0	2,003.6	2,003.6	2,004.0	0.4
AO	36,935	125	680	7.4	2,012.1	2,012.1	2,012.7	0.6
AP	37,602	104	516	9.7	2,021.3	2,021.3	2,021.8	0.5
AQ	38,045	154	740	6.8	2,033.1	2,033.1	2,033.7	0.6
AR	38,754	137	682	7.3	2,043.0	2,043.0	2,043.6	0.6
AS	39,359	172	731	6.8	2,051.1	2,051.1	2,051.1	0.0
AT	39,810	170	751	6.7	2,060.2	2,060.2	2,060.5	0.5
AU	40,641	187	781	6.4	2,072.9	2,072.9	2,073.3	0.4
AV	41,282	272	620	8.1	2,083.1	2,083.1	2,083.4	0.3
AW	41,971	84	405	12.3	2,093.5	2,093.5	2,093.5	0.0
AX	42,537	173	945	5.3	2,105.3	2,105.3	2,106.1	0.8
AY	43,471	130	393	8.7	2,124.9	2,124.9	2,125.3	0.4
AZ	44,161	131	515	6.7	2,136.0	2,136.0	2,137.0	1.0

¹ Feet above Santa Clara River Trail

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: MINT CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	44,692	117	485	7.1	2,146.4	2,146.4	2,147.4	1.0
BB	45,225	129	518	6.6	2,156.7	2,156.7	2,157.3	0.6
BC	45,689	130	457	7.5	2,166.2	2,166.2	2,166.7	0.5
BD	46,421	154	321	10.7	2,179.5	2,179.5	2,180.2	0.7
BE	46,904	208	458	7.5	2,191.4	2,191.4	2,191.7	0.3
BF	47,652	107	420	8.2	2,211.2	2,211.2	2,211.5	0.3
BG	48,150	58	281	12.2	2,229.7	2,229.7	2,229.9	0.2
BH	48,989	83	336	10.2	2,277.9	2,277.9	2,278.1	0.2
BI	49,514	149	334	10.3	2,298.2	2,298.2	2,298.2	0.0
BJ	50,209	186	516	6.7	2,318.3	2,318.3	2,318.4	0.1
BK	51,190	229	485	7.1	2,341.9	2,341.9	2,341.9	0.0
BL	52,132	120	497	6.9	2,362.7	2,362.7	2,363.2	0.5
BM	52,904	118	295	6.2	2,381.5	2,381.5	2,381.9	0.4
BN	53,789	112	291	6.3	2,401.3	2,401.3	2,402.1	0.8
BO	54,682	104	269	6.8	2,420.8	2,420.8	2,421.3	0.5
BP	55,746	63	196	9.3	2,441.0	2,441.0	2,441.2	0.2
BQ	56,695	122	320	5.7	2,463.2	2,463.2	2,463.7	0.5
BR	57,506	140	320	5.7	2,481.9	2,481.9	2,482.2	0.3
BS	58,695	286	538	3.4	2,510.4	2,510.4	2,510.7	0.3
BT	59,915	211	396	4.6	2,540.7	2,540.7	2,540.8	0.1
BU	61,144	205	413	4.5	2,573.5	2,573.5	2,573.8	0.3
BV	62,387	257	339	5.4	2,606.7	2,606.7	2,607.7	1.0
BW	63,160	166	382	4.8	2,628.0	2,628.0	2,628.1	0.1

¹ Feet above Santa Clara River Trail

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: MINT CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	84	307	1,178	7.0	1,199.0	1,199.0	1,199.0	0.0
B	628	177	774	10.7	1,203.3	1,203.3	1,203.3	0.0
C	1,377	104	722	10.4	1,212.0	1,212.0	1,212.0	0.0
D	1,905	87	614	6.4	1,215.6	1,215.6	1,215.7	0.1
E	2,122	61	398	9.8	1,216.0	1,216.0	1,216.2	0.2
F	2,912	36	259	15.1	1,223.1	1,223.1	1,223.1	0.0
G	3,632	33	250	15.7	1,234.0	1,234.0	1,234.1	0.1
H	4,418	34	251	15.6	1,242.8	1,242.8	1,242.8	0.0
I	4,826	41	268	14.6	1,247.1	1,247.1	1,247.2	0.1
J	5,238	167	725	5.4	1,257.0	1,257.0	1,257.0	0.0
K	5,553	74	326	12.0	1,260.5	1,260.5	1,260.5	0.0
L	6,041	57	410	9.6	1,266.6	1,266.6	1,266.9	0.3
M	6,159	51	376	10.4	1,267.4	1,267.4	1,268.1	0.7
N	6,245	68	507	7.7	1,269.0	1,269.0	1,269.5	0.5
O	7,070	117	527	7.9	1,275.9	1,275.9	1,276.8	0.9
P	7,312	154	760	6.1	1,278.5	1,278.5	1,278.7	0.2
Q	7,674	77	371	12.5	1,280.6	1,280.6	1,280.6	0.0
R	8,243	122	681	6.8	1,286.7	1,286.7	1,286.8	0.1
S	8,929	149	581	7.0	1,292.1	1,292.1	1,292.1	0.0
T	9,942	98	352	10.8	1,301.3	1,301.3	1,301.3	0.0
U	10,582	79	353	10.3	1,309.1	1,309.1	1,309.3	0.2
V	11,018	91	422	8.6	1,314.9	1,314.9	1,314.9	0.0
W	11,406	138	565	6.4	1,318.4	1,318.4	1,318.5	0.1
X	11,603	97	341	10.7	1,320.2	1,320.2	1,320.2	0.0
Y	11,731	92	442	8.2	1,322.5	1,322.5	1,322.6	0.1
Z	12,197	92	543	6.7	1,328.4	1,328.4	1,328.4	0.0

¹ Feet upstream of Wiley Canyon Road

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA	FLOODWAY DATA
	AND INCORPORATED AREAS	FLOODING SOURCE: NEWHALL CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	12598	94	357	10.2	1,330.6	1,330.6	1,330.7	0.1
AB	13220	82	362	10.0	1,339.0	1,339.0	1,339.0	0.0
AC	13468	53	273	13.3	1,343.5	1,343.5	1,343.5	0.0
AD	14017	198	532	6.8	1,353.2	1,353.2	1,353.2	0.0
AE	14377	148	337	8.3	1,360.2	1,360.2	1,360.2	0.0
AF	15211	55	293	12.4	1,372.6	1,372.6	1,372.9	0.3
AG	*	*	*	*	*	*	*	*
AH	*	*	*	*	*	*	*	*

¹ Feet upstream of Wiley Canyon Road

* Floodway not computed

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: NEWHALL CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	122	*	*	*	1,206.4	1,206.4	*	*
B	526	*	*	*	1,210.3	1,210.3	*	*
C	1,295	*	*	*	1,211.9	1,211.9	*	*
D	2,286	*	*	*	1,218.5	1,218.5	*	*
E	2,837	*	*	*	1,223.6	1,223.6	*	*
F	3,556	*	*	*	1,231.5	1,231.5	*	*
G	3,937	*	*	*	1,235.9	1,235.9	*	*
H	4,415	*	*	*	1,240.5	1,240.5	*	*

¹ Feet above confluence with Newhall Creek

*Floodway not computed

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: NEWHALL CREEK LEFT OVERBANK 2

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	123	56	152	4.5	1,357.2	1,357.2	1,357.4	0.2
B	288	55	113	6.0	1,357.6	1,357.6	1,357.7	0.1
C	443	70	159	4.3	1,358.8	1,358.8	1,359.7	0.9
D	700	59	117	5.9	1,363.6	1,363.6	1,364.6	1.0
E	917	33	6	2.6	1,370.1	1,370.1	1,370.2	0.1
F	1,051	32	12	1.3	1,371.2	1,371.2	1,371.2	0.0

¹ Feet above confluence with Newhall Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: NEWHALL CREEK RIGHT OVERBANK 1

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	352	106	441	9.3	1,214.5	1,214.5	1214.5	0.0
B	611	336	1,779	2.3	1,219.3	1,219.2	1,219.6	0.4
C	1,413	190	533	7.7	1,224.8	1,224.8	1,225.0	0.2
D	2,634	89	480	8.6	1,241.4	1,241.4	1,241.7	0.3
E	3,706	48	317	13.0	1,252.0	1,252.0	1,252.5	0.5
F	4,974	97	369	11.1	1,268.8	1,268.8	1,269.2	0.4
G	5,930	355	731	5.6	1,283.1	1,283.1	1,283.4	0.3
H	6,822	62	311	13.2	1,292.4	1,292.4	1,292.9	0.5
I	7,977	221	552	7.4	1,308.5	1,308.5	1,308.6	0.1
J	9,595	190	575	7.1	1,330.3	1,330.3	1,330.6	0.3
K	11,004	190	606	6.8	1,349.4	1,349.4	1,349.6	0.2
L	12,370	75	344	12.0	1,364.4	1,364.4	1,364.4	0.0
M	14,059	258	736	5.6	1,386.2	1,386.2	1,387.0	0.8
N	16,019	100	526	7.0	1,415.3	1,415.3	1,415.3	0.0
O	17,684	59	326	11.4	1,443.4	1,443.4	1,443.4	0.0
P	19,620	212	534	6.9	1,470.3	1,470.3	1,470.3	0.0
Q	21,494	181	447	7.1	1,498.5	1,498.5	1,498.5	0.0
R	23,727	102	341	8.5	1,541.6	1,541.6	1,541.7	0.1

¹ Feet above confluence with Newhall Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: PLACERITA CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,640	48	147	5.8	1,290.0	1290.0	1290.0	0.0
B	2,489	249	185	4.2	1,299.8	1,299.8	1,300.2	0.4
C	3,332	41	129	6.1	1,309.1	1,309.1	1,309.2	0.1
D	4,157	24	57	8.2	1,319.3	1,319.3	1,319.3	0.0
E	5,089	29	89	5.3	1,331.1	1,331.1	1,331.2	0.1
F	6,266	30	93	4.4	1,349.0	1,349.0	1,349.1	0.1
G	7,061	42	64	6.4	1,370.5	1,370.5	1,370.5	0.0
H	7,750	22	63	6.4	1,393.9	1,393.9	1,393.9	0.0

¹ Feet above confluence with Placerita Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: QUIGLEY CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	192	27	30	5.4	1,305.2	1,304.3 ²	1,304.3 ²	0.0
B	378	18	31	5.3	1,307.7	1,307.7	1,307.8	0.1
C	584	23	37	4.4	1,310.3	1,310.3	1,310.3	0.0
D	934	21	26	6.3	1,316.3	1,316.3	1,316.3	0.0
E	1,082	19	25	6.5	1,321.4	1,321.4	1,321.4	0.0
F	1,280	27	36	4.5	1,325.4	1,325.4	1,325.5	0.1
G	1,491	25	27	6.0	1,329.3	1,329.3	1,329.3	0.0
H	1,858	14	25	6.4	1,338.0	1,338.0	1,338.0	0.0
I	1,920	30	766	1.3	1,342.7	1,342.7	1,343.6	0.9

¹ Feet above confluence with Newhall Creek

² Elevation computed without consideration of backwater effects from Newhall Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: RAILROAD CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,164	60	216	9.63	192.8	192.8	192.8	0.0
B	4,780	120	243	8.29	204.8	204.8	204.8	0.0
C	5,400	150	149	7.23	219.8	219.8	219.8	0.0
D	6,130	65	230	7.97	235.6	235.6	235.6	0.0
E	7,350	29	180	9.81	259.2	259.2	259.2	0.0
F	8,220	49	141	12.01	281.6	281.6	281.6	0.0

¹ Feet upstream of Latimer Road

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: RUSTIC CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,934	340	1,448	9.6	1,098.6	1,098.6	1,098.7	0.1
B	3,117	350	1,789	7.8	1,107.7	1,107.7	1,108.4	0.7
C	4,384	357	1,768	7.8	1,116.9	1,116.9	1,117.6	0.7
D	5,120	289	1,512	9.2	1,122.0	1,122.0	1,122.4	0.4
E	6,394	427	2,167	6.4	1,130.4	1,130.4	1,131.4	1.0
F	8,073	399	1,619	8.6	1,142.6	1,142.6	1,143.3	0.7
G	9,287	516	2,048	6.8	1,152.1	1,152.1	1,153.1	1.0
H	10,311	458	1,926	7.2	1,161.7	1,161.7	1,162.7	1.0
I	11,520	404	1,927	7.2	1,173.5	1,173.5	1,174.2	0.7
J	12,493	453	1,653	8.4	1,181.9	1,181.9	1,182.8	0.9
K	13,454	540	1,610	8.6	1,191.2	1,191.2	1,191.9	0.7
L	14,599	320	1,423	9.7	1,203.6	1,203.6	1,204.1	0.5
M	15,377	418	1,527	9.1	1,210.5	1,210.5	1,210.9	0.4
N	16,188	464	1,448	9.6	1,217.1	1,217.1	1,218.0	0.9
O	17,436	999	2,045	6.8	1,227.4	1,227.4	1,228.3	0.9
P	18,479	1370	1,912	7.3	1,236.8	1,236.8	1,237.7	0.9
Q	19,600	1040	2,341	5.9	1,246.8	1,246.8	1,247.8	1.0
R	20,565	568	1,877	7.4	1,255.1	1,255.1	1,255.1	0.0
S	21,597	394	1,756	7.9	1,263.5	1,263.5	1,263.9	0.4
T	22,786	358	1,529	9.1	1,272.0	1,272.0	1,272.9	0.9
U	23,914	325	1,353	10.2	1,284.1	1,284.1	1,284.2	0.1
V	24,847	296	1,282	10.8	1,290.6	1,290.6	1,290.7	0.1
W	25,760	327	1,427	9.7	1,298.2	1,298.2	1,298.7	0.5
X	26,451	343	1,618	8.6	1,304.4	1,304.4	1,305.2	0.8
Y	27,442	424	1,690	8.2	1,314.8	1,314.8	1,315.7	0.9
Z	28,589	273	1,466	9.5	1,326.2	1,326.2	1,327.0	0.8

¹ Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SAN FRANCISQUITO CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	949	246	549	6.7	1543.7	1543.7	1544.7	1.0
B	1465	196	453	8.1	1551.9	1551.9	1552.6	0.7
C	2294	581	783	4.7	1567.6	1567.6	1567.8	0.2
D	3063	460	740	5.0	1581.3	1581.3	1582.3	1.0
E	3948	368	680	5.4	1596.5	1596.5	1597.1	0.6
F	4656	145	418	8.3	1610.2	1610.2	1610.2	0.0
G	5277	73	282	12.4	1620.0	1620.0	1620.0	0.0
H	5930	82	307	11.3	1629.8	1629.8	1629.8	0.0
I	6933	87	275	12.6	1644.7	1644.7	1644.7	0.0
J	8100	72	278	12.5	1667.8	1667.8	1667.8	0.0
K	9019	56	452	13.1	1689.2	1689.2	1689.2	0.0
L	9698	94	273	12.8	1702.6	1702.6	1702.6	0.0
M	10480	92	337	7.3	1720.7	1720.7	1720.7	0.0
N	11635	56	215	11.5	1743.0	1743.0	1743.0	0.0
O	12694	60	222	11.1	1766.7	1766.7	1766.8	0.1
P	13586	106	243	9.6	1788.6	1788.6	1788.6	0.0
Q	14867	60	196	12.0	1818.6	1818.6	1818.6	0.0
R	15913	68	185	11.6	1838.7	1838.7	1838.7	0.0
S	17026	81	195	11.1	1865.8	1865.8	1865.8	0.0
T	17567	61	207	10.4	1889.6	1889.6	1889.6	0.0
U	18213	61	159	10.0	1904.2	1904.2	1904.2	0.0
V	19154	44	151	10.5	1928.5	1928.5	1929.1	0.6

¹ Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA	FLOODWAY DATA
	AND INCORPORATED AREAS	FLOODING SOURCE: SAND CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	207,726	1223	5,733	11.6	833.0	833.0	833.2	0.2
B	209,501	959	6,793	9.8	844.0	844.0	844.0	0.0
C	210,587	1348	7,091	9.4	848.7	848.7	848.7	0.0
D	212,272	1240	7,166	9.3	857.3	857.3	857.7	0.4
E	213,280	1050	7,642	8.7	864.5	864.5	865.2	0.7
F	214,526	665	5,083	13.1	870.4	870.4	871.0	0.6
G	215,675	671	7,005	9.5	879.5	879.5	879.8	0.3
H	217,269	1097	6,533	10.2	883.9	883.9	884.2	0.3
I	218,493	778	5,349	12.5	889.9	889.9	890.2	0.3
J	220,308	660	4,739	14.1	900.1	900.1	900.1	0.0
K	222,073	813	5,560	12.0	911.3	911.3	911.5	0.2
L	223,286	831	7,473	8.9	916.9	916.9	917.4	0.5
M	224,864	846	6,321	10.5	925.7	925.7	925.7	0.0
N	226,652	497	4,705	14.2	934.6	934.6	934.6	0.0
O	227,982	696	9,195	7.2	946.5	946.5	946.5	0.0
P	230,167	1206	7,808	8.5	949.3	949.3	949.4	0.1
Q	231,459	677	3,948	12.8	957.2	957.2	957.5	0.3
R	233,694	1080	5,054	10.0	969.3	969.3	970.1	0.8
S	235,405	1011	5,477	9.2	980.6	980.6	980.9	0.3
T	237,277	531	3,893	12.9	990.3	990.3	990.5	0.2
U	238,750	695	4,944	10.2	998.0	998.0	998.1	0.1
V	240,838	791	5,361	9.4	1,007.9	1,007.9	1,008.0	0.1
W	243,054	618	4,075	12.3	1,020.7	1,020.7	1,020.9	0.2
X	244,918	512	5,206	9.7	1,033.9	1,033.9	1,034.1	0.2
Y	246,184	305	2,893	17.4	1,044.6	1,044.6	1,044.6	0.0
Z	247,789	384	4,945	10.1	1,056.4	1,056.4	1,056.4	0.0

¹ Feet above mouth at Pacific Ocean

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	249,448	326	3,061	16.3	1,066.0	1,066.0	1,066.4	0.4
AB	250,339	361	6,593	7.6	1,078.1	1,078.1	1,078.1	0.0
AC	256,333	984	6,695	7.5	1,081.3	1,081.3	1,081.3	0.0
AD	255,132	785	5,243	7.9	1,096.4	1,096.4	1,096.6	0.2
AE	256,422	721	4,516	9.2	1,105.3	1,105.3	1,105.3	0.0
AF	257,835	1181	6,208	6.7	1,111.9	1,111.9	1,111.9	0.0
AG	259,228	451	2,586	13.1	1,122.8	1,122.8	1,123.0	0.2
AH	260,732	540	2,808	12.1	1,135.4	1,135.4	1,135.4	0.0
AI	262,728	653	2,569	10.2	1,152.0	1,152.0	1,152.0	0.0
AJ	263,987	678	4,649	5.6	1,165.9	1,165.9	1,165.9	0.0
AK	265,479	645	2,413	10.9	1,175.3	1,175.3	1,175.7	0.4
AL	267,152	627	2,651	9.9	1,190.5	1,190.5	1,190.6	0.1
AM	269,009	922	2,779	9.4	1,205.4	1,205.4	1,205.4	0.0
AN	270,595	809	3,108	8.4	1,220.9	1,220.9	1,220.9	0.0
AO	272,264	787	3,303	7.9	1,233.7	1,233.7	1,234.1	0.4
AP	274,071	1274	3,070	8.5	1,249.0	1,249.0	1,249.1	0.1
AQ	276,329	674	3,322	7.9	1,269.8	1,269.8	1,270.5	0.7
AR	277,377	473	3,050	8.6	1,281.7	1,281.7	1,281.7	0.0
AS	279,107	399	2,332	11.2	1,293.4	1,293.4	1,293.9	0.5
AT	280,495	436	2,341	11.2	1,304.2	1,304.2	1,304.7	0.5
AU	282,032	535	2,718	9.6	1,316.5	1,316.5	1,316.5	0.0
AV	283,613	616	2,357	11.0	1,328.6	1,328.6	1,328.6	0.0
AW	284,515	893	3,031	8.6	1,336.4	1,336.4	1,336.5	0.1
AX	285,935	869	2,893	9.0	1,349.2	1,349.2	1,349.2	0.0
AY	287,582	677	3,451	7.5	1,365.0	1,365.0	1,365.1	0.1
AZ	289,667	522	2,233	11.6	1,382.2	1,382.2	1,383.0	0.8

¹ Feet above mouth at Pacific Ocean

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	291,158	615	2,345	11.1	1,396.0	1,396.0	1,396.0	0.0
BB	292,356	459	2,125	12.2	1,407.0	1,407.0	1,407.1	0.1
BC	294,327	464	2,306	11.2	1,425.3	1,425.3	1,425.4	0.1
BD	296,017	541	2,044	10.6	1,439.8	1,439.8	1,439.9	0.1
BE	298,582	592	2,431	8.9	1,465.2	1,465.2	1,465.2	0.0
BF	300,339	832	2,096	10.4	1,484.3	1,484.3	1,484.4	0.1
BG	302,539	728	2,095	10.4	1,506.3	1,506.3	1,506.3	0.0
BH	303,917	375	2,727	8.0	1,518.2	1,518.2	1,518.2	0.0
BI	305,997	363	1,646	11.9	1,536.9	1,536.9	1,536.9	0.0
BJ	307,229	457	1,722	11.3	1,547.8	1,547.8	1,548.0	0.2
BK	308,499	294	1,886	10.3	1,558.3	1,558.3	1,559.3	1.0
BL	309,701	450	1,568	12.4	1,572.0	1,572.0	1,572.0	0.0
BM	310,789	179	1,907	10.2	1,579.5	1,579.5	1,580.5	1.0
BN	311,968	495	1,286	15.2	1,590.4	1,590.4	1,590.5	0.1
BO	313,366	472	3,691	5.3	1,598.9	1,598.9	1,599.3	0.4
BP	314,917	345	2,826	6.9	1,604.2	1,604.2	1,605.1	0.9
BQ	316,595	98	1,570	11.9	1,612.9	1,612.9	1,613.6	0.7
BR	317,637	251	1,033	18.1	1,624.9	1,624.9	1,625.0	0.1
BS	318,765	305	2,121	8.8	1,631.6	1,631.6	1,632.5	0.9
BT	320,949	399	2,622	7.1	1,667.5	1,667.5	1,668.2	0.7
BU	322,310	157	1,725	10.9	1,674.1	1,674.1	1,675.0	0.9
BV	323,563	356	1,133	15.1	1,692.1	1,692.1	1,692.1	0.0
BW	324,830	166	1,513	11.3	1,705.8	1,705.8	1,706.0	0.2
BX	325,864	90	1,277	14.7	1,722.8	1,722.8	1,723.0	0.2
BY	327,062	191	995	18.8	1,742.3	1,742.3	1,742.4	0.1
BZ	327,955		1,738	10.8	1,754.5	1,754.5	1,754.7	0.2

¹ Feet above mouth at Pacific Ocean

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: SANTA CLARA RIVER
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Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CA	384,541	194	1,137	8.5	2,513.1	2,513.1	2,513.1	0.0
CB	385,337	181	1,067	9.0	2,524.6	2,524.6	2,525.4	0.8
CC	385,939	140	820	11.7	2,535.8	2,535.8	2,535.8	0.0
CD	386,895	191	938	10.2	2,551.0	2,551.0	2,551.0	0.0
CE	387,619	119	706	13.6	2,561.9	2,561.9	2,561.9	0.0
CF	388,131	162	1,097	6.8	2,572.6	2,572.6	2,573.4	0.8
CG	389,210	172	677	11.0	2,590.3	2,590.3	2,590.3	0.0
CH	389,523	116	592	12.6	2,595.0	2,595.0	2,595.6	0.6
CI	389,943	141	669	11.1	2,610.1	2,610.1	2,611.0	0.9
CJ	390,256	138	624	11.9	2,615.3	2,615.3	2,616.0	0.7
CK	390,918	358	1,061	7.0	2,623.3	2,623.3	2,624.3	1.0
CL	392,093	181	699	10.6	2,641.4	2,641.4	2,642.1	0.7
CM	392,901	159	699	10.7	2,652.7	2,652.7	2,653.0	0.3
CN	393,451	347	1,350	5.5	2,662.0	2,662.0	2,662.5	0.5
CO	393,519	257	809	9.2	2,662.0	2,662.0	2,662.9	0.9
CP	394,929	236	779	9.6	2,680.6	2,680.6	2,681.1	0.5
CQ	395,864	140	633	11.8	2,692.5	2,692.5	2,693.5	1.0
CR	397,082	232	578	9.0	2,709.8	2,709.8	2,710.6	0.8
CS	398,092	331	649	8.0	2,724.2	2,724.2	2,724.7	0.5
CT	399,243	226	584	8.9	2,739.7	2,739.7	2,739.8	0.1
CU	400,786	365	687	7.6	2,757.4	2,757.4	2,757.4	0.0
CV	402,290	190	545	9.6	2,776.0	2,776.0	2,776.1	0.1
CW	403,917	270	606	8.6	2,795.5	2,795.5	2,795.6	0.1
CX	405,540	115	459	11.4	2,813.8	2,813.8	2,813.8	0.0
CY	407,100	155	509	10.2	2,833.0	2,833.0	2,833.0	0.0

¹ Feet above mouth at Pacific Ocean

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,989	173	1,164	9.3	1,117.2	1,117.2	1,117.3	0.1
B	3,414	131	1,200	9.0	1,123.4	1,123.4	1,124.3	0.9
C	3,965	340	2,192	5.0	1,136.5	1,136.5	1,136.5	0.0
D	5,419	195	1,072	10.1	1,141.4	1,141.4	1,141.9	0.5
E	6,347	246	1,490	7.3	1,146.1	1,146.1	1,147.0	0.9
F	6,908	261	1,433	7.6	1,157.5	1,157.5	1,158.4	0.9
G	7,501	183	1,417	7.7	1,159.1	1,159.1	1,160.0	0.9
H	8,048	261	1,234	8.8	1,163.6	1,163.6	1,164.3	0.7
I	8,552	301	1,618	6.7	1,167.1	1,167.1	1,167.8	0.7
J	9,322	343	1,615	6.7	1,172.3	1,172.3	1,173.1	0.8
K	10,714	323	1,548	7.0	1,180.0	1,180.0	1,180.8	0.8
L	12,067	270	1,339	8.1	1,188.3	1,188.3	1,189.0	0.7
M	13,086	324	1,376	7.9	1,194.7	1,194.7	1,195.6	0.9
N	14,803	204	762	11.0	1,207.6	1,207.6	1,207.7	0.1
O	15,283	337	2,167	3.9	1,215.8	1,215.8	1,216.8	1.0
P	16,329	153	1,337	6.3	1,218.1	1,218.1	1,218.9	0.8
Q	17,384	143	698	7.7	1,221.7	1,221.7	1,221.8	0.1
R	17,857	146	816	6.6	1,225.6	1,225.6	1,225.7	0.1
S	18,498	142	573	9.4	1,227.9	1,227.9	1,228.1	0.2
T	19,838	145	931	5.8	1,237.1	1,237.1	1,237.2	0.1
U	20,725	32	323	16.7	1,247.4	1,247.4	1,247.4	0.0
V	21,505	32	387	14.0	1,255.2	1,255.2	1,255.2	0.0
W	21,923	31	367	14.7	1,257.9	1,257.9	1,257.9	0.0

¹ Feet above confluence with Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SOUTH FORK SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	568	58	317	7.8	1,219.9	1,219.9	1,219.9	0.0
B	992	56	356	6.9	1,222.9	1,222.9	1,223.1	0.2
C	1,630	49	254	9.7	1,225.7	1,225.7	1,225.7	0.0
D	2,039	55	267	9.3	1,229.4	1,229.4	1,229.4	0.0
E	3,144	57	220	11.2	1,238.4	1,238.4	1,238.4	0.0
F	4,041	54	218	11.3	1,246.7	1,246.7	1,246.7	0.0
G	4,372	140	305	8.1	1,255.0	1,255.0	1,255.0	0.0

¹ Feet above confluence with South Fork Santa Clara River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SOUTH FORK SANTA CLARA RIVER TRIBUTARY

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	477	98	228	9.0	2,358.5	2,358.5	2,359.5	1.0
B	1,058	222	281	4.9	2,373.2	2,373.2	2,373.7	0.5
C	1,669	148	273	5.0	2,386.6	2,386.6	2,387.5	0.9
D	2,285	117	245	5.6	2,400.9	2,400.9	2,401.5	0.6
E	2,772	112	232	5.9	2,412.4	2,412.4	2,413.2	0.8
F	3,319	88	227	6.0	2,427.5	2,427.5	2,427.7	0.2
G	4,019	169	292	4.7	2,443.2	2,443.2	2,444.1	0.9
H	4,644	136	240	5.7	2,459.6	2,459.6	2,460.1	0.5
I	5,206	134	287	4.8	2,473.7	2,473.7	2,473.9	0.2
J	5,805	129	249	5.5	2,489.2	2,489.2	2,489.2	0.0
K	6,419	97	252	5.4	2,503.7	2,503.7	2,503.9	0.2
L	6,953	66	249	5.5	2,517.6	2,517.6	2,518.5	0.9
M	7,433	53	178	7.7	2,529.1	2,529.1	2,529.5	0.4
N	8,025	63	254	5.4	2,544.7	2,544.7	2,545.6	0.9
O	8,650	56	148	9.2	2,563.0	2,563.0	2,563.8	0.8
P	9,302	58	194	5.8	2,582.8	2,582.8	2,583.2	0.4
Q	9,922	39	115	9.7	2,600.0	2,600.0	2,600.0	0.0
R	10,602	60	132	8.5	2,622.0	2,622.0	2,622.1	0.1
S	11,249	68	160	7.0	2,642.8	2,642.8	2,642.9	0.1
T	11,911	57	167	6.7	2,666.4	2,666.4	2,667.1	0.7
U	12,384	53	159	7.0	2,682.9	2,682.9	2,683.9	1.0
V	13,136	107	153	7.3	2,713.5	2,713.5	2,714.5	1.0
W	13,907	49	132	8.5	2,745.9	2,745.9	2,746.4	0.6
X	14,540	79	171	6.5	2,772.9	2,772.9	2,773.8	0.9

¹ Feet above confluence with Mint Canyon Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SPADE SPRING CANYON CREEK

Table 24: Floodway Data, continued

CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	106	191	2,235	9.0	737.0	737.0	737.0	0.0
B	2,997	238	2,449	7.9	747.6	747.6	747.9	0.3
C	5,561	262	2,437	8.0	756.0	756.0	756.9	0.9
D	7,584	308	3,884	5.0	770.6	770.6	770.6	0.0
E	9,813	135	2,609	7.2	783.4	783.4	783.7	0.3
F	12,066	308	3,544	5.0	790.1	790.1	790.5	0.4
G	14,071	310	2,920	6.0	800.5	800.5	800.5	0.0
H	16,651	144	1,803	8.8	811.7	811.7	812.6	0.9
I	19,121	257	2,029	7.6	825.2	825.2	825.9	0.7
J	21,133	130	1,372	11.1	833.8	833.8	834.2	0.4
K	23,133	190	1,159	13.1	842.2	842.2	842.4	0.2
L	25,905	142	1,788	8.4	861.2	861.2	861.2	0.0

¹Feet above confluence with Malibu Lake

TABLE 24

LOS ANGELES COUNTY, CALIFORNIA

FLOODWAY DATA

FLOODING SOURCE: TRIUNFO CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	342	14	19	6.7	149.4	149.4	149.4	0.0
B	434	30	24	5.2	174.5	174.5	174.5	0.0
C	482	41	27	4.6	177.1	177.1	177.1	0.0
D	539	28	24	5.3	182.6	182.6	183.4	0.8
E	586	35	26	4.9	185.2	185.2	185.3	0.1
F	888	32	25	5.0	196.3	196.3	196.3	0.0
G	934	39	27	4.7	199.2	199.2	199.2	0.0
H	960	37	26	4.8	203.2	203.2	203.2	0.0
I	1,040	27	24	5.3	207.8	207.8	208.1	0.3
J	1,256	58	30	4.2	213.4	213.4	213.6	0.2
K	1,582	60	70	1.8	216.2	216.2	216.2	0.0
L	1,722	26	9	3.4	233.7	233.7	233.7	0.0
M	1,823	35	10	3.1	240.4	240.4	240.4	0.0
N	2,054	29	40	0.8	246.7	246.7	247.3	0.6
O	2,373	11	7	4.6	257.9	257.9	257.9	0.0
P	2,485	32	10	3.2	268.7	268.7	268.7	0.0
Q	2,506	19	2	1.8	272.1	272.1	272.1	0.0
R	2,700	9	2	1.3	277.8	277.8	277.8	0.0
S	2,858	34	90	9.2	283.9	283.9	283.9	0.0
T	3,031	75	122	6.8	293.3	293.3	293.3	0.0
U	3,246	24	63	9.2	300.6	300.6	300.6	0.0
V	3,699	21	60	9.6	326.3	326.3	326.3	0.0
W	3,774	33	70	8.3	336.2	336.2	336.2	0.0
X	3,946	22	61	9.5	338.6	338.6	338.6	0.0
Y	4,068	27	65	8.9	350.7	350.7	350.7	0.0
Z	4,261	36	72	8.0	355.6	355.6	355.6	0.0

¹ Feet above Pacific Ocean

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: UNNAMED STREAM MAIN REACH

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	4,380	55	83	7.0	369.4	369.4	369.5	0.1
AB	4,434	35	72	8.1	372.0	372.0	372.0	0.0
AC	4,490	33	156	3.7	373.1	373.1	373.1	0.0
AD	4,565	8	1	2.3	379.3	379.3	379.3	0.0
AE	5,024	16	4	0.8	410.4	410.4	410.4	0.0
AF	5,087	37	18	4.0	416.7	416.7	416.7	0.0
AG	5,136	24	15	4.6	422.9	422.9	422.9	0.0
AH	5,153	39	18	3.9	428.5	428.5	428.6	0.1
AI	5,177	48	19	3.6	429.3	429.3	429.3	0.0
AJ	5,520	18	2	1.7	472.0	472.0	472.1	0.1
AK	5,533	7	2	1.3	472.4	472.4	472.4	0.0
AL	5,626	9	1	2.2	488.1	488.1	488.1	0.0
AM	5,648	44	18	3.7	497.9	497.9	497.9	0.0
AN	5,730	54	35	4.7	521.6	521.6	521.6	0.0
AO	5,753	33	30	5.5	523.5	523.5	523.5	0.0
AP	5,792	30	29	5.6	523.8	523.8	523.9	0.1
AQ	5,934	30	12	1.8	526.9	526.9	526.9	0.0

¹ Feet above Pacific Ocean

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: UNNAMED STREAM MAIN REACH

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	57	30	23	5.0	380.3	380.3	380.3	0.0
B	239	23	46	2.6	388.1	388.1	388.4	0.3
C	314	27	22	5.3	399.3	399.3	399.3	0.0
D	366	25	22	5.4	410.1	410.1	410.3	0.2
E	546	18	20	6.0	421.7	421.7	421.8	0.1
F	799	33	24	4.9	441.6	441.6	441.6	0.0
G	935	29	23	5.1	457.0	457.0	457.0	0.0
H	1,009	18	6	3.3	458.9	458.9	458.9	0.0
I	1,051	29	25	5.3	463.7	463.7	463.7	0.0
J	1,145	25	24	5.6	493.2	493.2	493.2	0.0
K	1,227	22	23	5.8	508.2	508.2	508.2	0.0
L	1,343	15	21	6.6	514.4	514.4	514.4	0.0
M	1,374	26	24	5.6	525.7	525.7	525.7	0.0
N	1,400	23	57	2.4	526.3	526.3	526.3	0.0

¹ Feet above confluence with Unnamed Stream Main Reach

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: UNNAMED STREAM TRIBUTARY 1

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	207	23	26	6.1	284.8	284.8	284.8	0.0
B	623	31	29	5.5	322.6	322.6	322.7	0.1
C	744	39	31	5.1	334.4	334.4	334.4	0.0
D	803	44	46	3.5	335.6	335.6	335.7	0.1
E	913	24	26	6.0	344.2	344.2	344.2	0.0
F	1,699	27	28	5.8	395.9	395.9	395.9	0.0
G	2,039	33	29	5.4	431.2	431.2	431.2	0.0
H	2,405	26	49	7.8	455.1	455.1	455.2	0.1
I	2,523	24	54	7.1	470.0	470.0	470.1	0.1
J	2,569	29	91	4.2	470.9	470.9	471.5	0.6
K	2,674	35	53	7.1	482.7	482.7	482.7	0.0
L	2,692	30	51	7.4	487.8	487.8	487.8	0.0
M	2,822	52	90	3.6	498.0	498.0	498.4	0.4
N	2,943	35	130	2.8	498.3	498.3	498.5	0.2

¹ Feet above confluence with Unnamed Stream Main Reach

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: UNNAMED STREAM TRIBUTARY 2

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	CROSS SECTION	DISTANCE ¹	WIDTH (FEET)
A	1,290	70	210	5.4	1,377.9	1,377.9	1,377.9	0.0

¹ Feet upstream of Golden State Freeway Bridge

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: WELDON CANYON

**Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams
[Not Applicable to this Flood Risk Project]**

6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified on each transect based on the results from the onshore wave hazard analyses. Between transects, elevations were interpolated using topographic maps, land-use and land-cover data, and knowledge of coastal flood processes to determine the aerial extent of flooding. Sources for topographic data are shown in Table 23.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1% annual chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.
- The *wave runup zone* occurs where the (eroded) ground profile is 3.0 feet or more below the 1-percent annual chance TWL.
- The *wave overtopping splash zone* is the area landward of the crest of an overtopped barrier, in cases where the potential 1-percent annual chance TWL.
- The *breaking wave height zone* occurs where 3-foot or greater wave heights could occur (this is the area where the wave crest profile is 2.1 feet or more above the total stillwater elevation).
- The *high-velocity flow zone* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv^2) is greater than or equal to 200 ft³/sec². This zone may only be used on the Pacific Coast.

The SFHA boundary indicates the limit of SFHAs shown on the FIRM as either “V” zones or “A” zones.

Table 26 indicates the coastal analyses used for floodplain mapping and the criteria used to determine the inland limit of the open-coast Zone VE and the SFHA boundary at each transect.

Table 26: Summary of Coastal Transect Mapping Considerations

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
1		VE 18	N/A	Runup	Runup
2		VE 13	N/A	Runup	Runup
3		VE 21	N/A	Runup	Runup
4		VE 14	N/A	Runup	Runup
5		VE 15	N/A	Runup	Runup
6		VE 14	N/A	Runup	Runup
7		VE 20	N/A	Runup	Runup
8		VE 17	N/A	Runup	Runup
9		VE 20	N/A	Runup	Overtopping
10		VE 14	N/A	Runup	Runup
11		VE 21	N/A	Runup	Overtopping
12		VE 16	N/A	Runup	Overtopping
13		VE 16, 20	N/A	Runup	Overtopping
14		VE 20	N/A	Runup	Overtopping
15		VE 22 AE 22	N/A	Runup	Runup
16		VE 17 AE 17	N/A	Runup	Runup
17		VE 17	N/A	Runup	Runup
18		VE 14 AE 14	N/A	Runup	Runup
19		VE 14	N/A	Runup	Runup
20		VE 19 AE 19	N/A	Runup	Runup
21		VE 12	N/A	Runup	Runup
22		VE 12	N/A	Runup	Runup
23		VE 23	N/A	Runup	Overtopping
24		VE 19	N/A	Runup	Runup
25		VE 20	N/A	Runup	Overtopping
26		VE 13	N/A	Runup	Runup
27		VE 20	N/A	Runup	Overtopping

Table 26: Summary of Coastal Transect Mapping Considerations, continued

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
28		VE 24, 31	N/A	Runup	Overtopping
29		VE 16	N/A	Runup	Runup
30		VE 17	N/A	Runup	Runup
31		VE 19	N/A	Runup	Overtopping
32		VE 19	N/A	Runup	Overtopping
33		VE 13	N/A	Runup	Runup
34		VE 17	N/A	Runup	Runup
35		VE 18	N/A	Runup	Runup
36		VE 19	N/A	Runup	Overtopping
37		VE 18	N/A	Runup	Runup
38		VE 20 AE 18	N/A	Runup	Overtopping
39		VE 13	N/A	Runup	Runup
40		VE 21	N/A	Runup	Overtopping
41		VE 25	N/A	Runup	Overtopping
42		VE 22	N/A	Runup	Overtopping
43		VE 24	N/A	Runup	Overtopping
44		VE 13	N/A	Runup	Runup
45		VE 20	N/A	Runup	Runup
46		VE 20	N/A	Runup	Overtopping
47		VE 17	N/A	Runup	Runup
48		VE 21	N/A	Runup	Runup
49		VE 17	N/A	Runup	Overtopping
50		VE 17	N/A	Runup	Runup
51		VE 17	N/A	Runup	Runup
52		VE 15 AE 15	N/A	Runup	Runup
53		VE 17 AE 17	N/A	Runup	Runup
54		VE 21	N/A	Runup	Overtopping

Table 26: Summary of Coastal Transect Mapping Considerations, continued

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
55		VE 15	N/A	Runup	Overtopping
56		VE 15	N/A	Runup	Overtopping
57		VE 17	N/A	Runup	Overtopping
58		VE 16	N/A	Runup	Runup
59		VE 15	N/A	Runup	Runup
60		VE 19	N/A	Runup	Runup
61		VE 16	N/A	Runup	Runup
62		VE 14	N/A	Runup	Runup
63		VE 23	N/A	Runup	Runup
64		VE 21	N/A	Runup	Overtopping
65		VE 14 AE 14	N/A	Runup	Runup
66		VE 23	N/A	Runup	Overtopping
67		VE 19	N/A	Runup	Runup
68		VE 16 AE 16	N/A	Runup	Runup
69		VE 16 AE 16	N/A	Runup	Runup
70		VE 18 AE 17	N/A	Runup	Runup
71		VE 17 AE 17	N/A	Runup	Runup
72		VE 19	N/A	Runup	Runup
73		VE 20 AE 20	N/A	Runup	Runup
74		VE 18 AE 18	N/A	Runup	Runup
75		VE 20	N/A	Runup	Runup
76		VE 18	N/A	Runup	Runup
77		VE 18	N/A	Runup	Runup

Table 26: Summary of Coastal Transect Mapping Considerations, continued

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
78		VE 17	N/A	Runup	Overtopping
79		VE 23	N/A	Runup	Overtopping
80		VE 21, 23 AE 8	N/A	Runup	Overtopping
81		VE 9 AE 8	N/A	Runup	Runup
82		VE 13	N/A	Runup	Runup
83		VE 13 AE 13	N/A	Runup	Runup
84		VE 12 AE 12	N/A	Runup	Runup
85		VE 14 AE 14	N/A	Runup	Runup
86		VE 18 AE 18	N/A	Runup	Runup
87		VE 20	N/A	Runup	Runup
88		VE 13	N/A	Runup	Runup
89		VE 15	N/A	Runup	Runup
90		VE 18	N/A	Runup	Runup
91		VE 16	N/A	Runup	Runup
92		VE 22	N/A	Runup	Runup
93		VE 20	N/A	Runup	Runup
94		VE 17	N/A	Runup	Runup
95		VE 18	N/A	Runup	Runup
96		VE 17	N/A	Runup	Runup
97		VE 17	N/A	Runup	Runup
98		VE 22	N/A	Runup	Runup
99		VE 17	N/A	Runup	Runup
100		VE 16	N/A	Runup	Runup
101		VE 14	N/A	Runup	Runup

Table 26: Summary of Coastal Transect Mapping Considerations, continued

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
102		VE 22	N/A	Runup	Overtopping
103		VE 15	N/A	Runup	Runup
104		VE 21	N/A	Runup	Runup
105		VE 13	N/A	Runup	Runup
106		VE 12, 15	N/A	Runup	Runup
107		VE 12, 19	N/A	Runup	Overtopping
108		VE 12	N/A	Runup	Runup
109		VE 11 AE 8	N/A	Runup	Runup
110		VE 24	N/A	Runup	Runup
111		VE 9 AE 8	N/A	Runup	Runup
112		VE 8 AE 8	N/A	Runup	Runup
113		VE 8 AE 8	N/A	Runup	Runup
114		VE 8 AE 8	N/A	Runup	Runup
115		VE 8 AE 8	N/A	Runup	Runup
116		VE 8 AE 8	N/A	Runup	Runup
117		VE 9 AE 9	N/A	Runup	Runup
118		VE 9 AE 9	N/A	Runup	Runup
119		VE 8 AE 8	N/A	Runup	Runup
120		VE 9 AE 8, 9	N/A	Runup	Runup

Table 26: Summary of Coastal Transect Mapping Considerations, continued

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
121		VE 12 AE 8, 12	N/A	Runup	Runup

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood hazard data (shown in Table 31, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit www.fema.gov/floodplain-management/letter-map-amendment-loma and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at www.fema.gov/online-tutorials.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1 877 FEMA MAP (1 877 336 2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting www.fema.gov/floodplain-management/letter-map-amendment-loma for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at www.fema.gov/online-tutorials.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <https://www.fema.gov/media-library/assets/documents/1343> and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1 877 FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Los Angeles County FIRM are listed in Table 27. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 27: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)	Special Considerations
08-09-1614P	09-29-2008	Unnamed Tributary to Santa Clara River	06037C0885G	
08-09-1757P	09-29-2008	Sand Canyon Creek Lateral	06037C0845G	This LOMR was partially incorporated to realign with new topography.
09-09-1285P	04-24-2009	Basin at Villa Canyon Road & Route 5 and Villa Canyon Creek	06037C0845G	
10-09-0746P	02-26-2010	Violin Canyon Creek	06037C0805G; 06037C0600G	

Table 27: Incorporated Letters of Map Change (continued)

Case Number	Effective Date	Flooding Source	FIRM Panel(s)	Special Considerations
10-09-1818P	04-26-2010	Oak Creek Springs	06037C0845G	Realigned from City of Santa Clarita comment to better align with topography.
11-09-1367P	04-25-2011	Mint Canyon Creek Overflow	06037C0840G; 06037C0845G	Partially incorporated LOMR for Mint Canyon Creek Overflow
12-09-2819P	08-09-2013	Newhall Creek, Railroad Canyon Left Overbank, and Newhall Creek Left Overbank Reach 2	06037C0818G; 06037C0819G; 06037C1032G	This LOMR was partially superseded by 13-09-2046P
13-09-1601P	12-06-2013	Wildwood Canyon	06037C1031G	
13-09-2785P	01-24-2014	Mint Canyon Creek Overflow Reach 2	06037C0840G	
13-09-2046P	02-07-2014	Newhall Creek Left Overbank Reach 2 and Newhall Creek	06037C0818G; 06037C0819G	
17-09-0916P	10-06-2017	Santa Clara River	06037C0840G; 06037C0845G	The delineation was incorporated from this LOMR however revised detailed analyses was incorporated.
18-09-1767P	06-13-2019	Plum Canyon Creek	06037C0830G	
20-09-0137P	09-23-2020	Tributary to Unnamed Canyon	06037C0840G	

6.5.4 Physical Map Revisions

PMRs are an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <http://www.fema.gov> and visit the “Flood Map Revision Processes” section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Los Angeles County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFM) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Los Angeles County FIRMs in countywide format was 09/26/2008.

Table 28: Community Map History

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Agoura Hills, City of	03/04/1986	N/A	N/A	03/04/1986	04/04/2018 09/26/2008 08/03/1998 12/18/1986
Alhambra, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Arcadia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Artesia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Avalon, City of	10/08/1976	10/08/1976	N/A	09/29/1978	09/26/2008 11/01/1985
Azusa, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Baldwin Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Bell, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Bell Gardens, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Bellflower, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Beverly Hills, City of ¹	09/26/2008	N/A	N/A	09/26/2008	12/21/2018
Bradbury, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Burbank, City of	07/19/1974	09/26/1975	N/A	03/16/1981	09/26/2008 01/20/1999
Calabasas, City of (Los Angeles County)	12/02/1980 (Los Angeles County)	N/A	N/A	12/02/1980 (Los Angeles County)	12/21/2018 01/06/2016 09/26/2008
Carson, City of	07/06/1998	N/A	N/A	07/06/1998	04/21/2021 09/26/2008
Cerritos, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Claremont, City of ¹	11/20/2000	N/A	N/A	11/20/2000	09/26/2008 07/02/2004
Commerce, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Compton, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Covina, City of ¹	06/28/1974	06/28/1974	08/27/1976 11/07/1975	09/26/2008	N/A
Cudahy, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Culver City, City of	06/28/1974	06/28/1974	09/03/1976 10/31/1975	02/01/1980	04/21/2021 12/21/2018 09/26/2008
Diamond Bar, City of (Los Angeles County)	12/02/1980 (Los Angeles County)	N/A	N/A	12/02/1980 (Los Angeles County)	09/26/2008
Downey, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Duarte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
El Monte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
El Segundo, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Gardena, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Glendale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Glendora, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Hawaiian Gardens, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Hawthorne, City of ¹	12/04/1979	N/A	N/A	12/04/1979	04/21/2021 09/26/2008
Hermosa Beach, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Hidden Hills, City of	09/07/1984	N/A	N/A	09/07/1984	09/26/2008 01/19/2006 11/21/2001
Huntington Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Industry, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Inglewood, City of ¹	09/26/2008	N/A	N/A	09/26/2008	12/21/2018
Irwindale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Canada Flintridge, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Habra Heights, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Mirada, City of	06/28/1974	06/28/1974	12/10/1976 10/10/1975	07/02/1980	09/26/2008
La Puente, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Verne, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Lakewood, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Lancaster, City of	09/11/1979	09/11/1979	N/A	01/06/1982	09/26/2008
Lawndale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Lomita, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Long Beach, City of	07/26/1974	07/26/1974	07/11/1978	09/15/1983	04/21/2021 09/26/2008 07/06/1998

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Los Angeles, City of	12/13/1977	12/13/1977	04/08/1980	12/02/1980	06/02/2021 04/21/2021 12/21/2018 01/06/2016 09/26/2008 05/04/1999 07/06/1998 02/04/1987
Los Angeles County Unincorporated Areas	10/24/1978	10/24/1978	N/A	12/02/1980	06/02/2021 04/21/2021 12/21/2018 04/04/2018 01/06/2016 09/26/2008 07/06/1998 03/30/1998 11/15/1985
Lynwood, City of	06/28/1974	06/28/1974	11/21/1975	04/15/1980	09/26/2008 07/06/1998
Malibu, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021 12/21/2018
Manhattan Beach, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Maywood, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Monrovia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Montebello, City of	06/28/1974	06/28/1974	12/19/1975	03/18/1980	09/26/2008
Monterey Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Norwalk, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Palmdale, City of	10/18/1974	10/18/1974	12/24/1976	01/06/1982	09/26/2008 03/30/1998 06/18/1987
Palos Verdes Estates, City of	09/07/1984	N/A	N/A	11/21/2001	04/21/2021 01/06/2016 09/26/2008 07/02/2004 11/21/2001
Paramount, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Pasadena, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Pico Rivera, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Pomona, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Rancho Palos Verdes, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021 01/06/2015
Redondo Beach, City of	06/28/1974	06/28/1974	05/21/1976	09/15/1983	04/21/2021 09/26/2008
Rolling Hills, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Rolling Hills Estates, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Rosemead, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
San Dimas, City of	06/28/1974	06/28/1974	N/A	04/01/1977	09/26/2008 06/02/1978
San Fernando, City of ¹	02/11/1976	N/A	N/A	02/11/1976	06/02/2021 09/26/2008
San Gabriel, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
San Marino, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Santa Clarita, City of	10/24/1978	10/24/1978	N/A	12/02/1980	06/02/2021 09/26/2008 09/29/1989
Santa Fe Springs, City of	06/28/1974	06/28/1974	10/03/1975	04/15/1980	09/26/2008
Santa Monica, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Sierra Madre, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Signal Hill, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
South El Monte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
South Gate, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
South Pasadena, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Temple City, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Torrance, City of	08/02/1974	08/02/1974	12/05/1975	12/18/1979	04/21/2021 01/06/2016 09/26/2008
Vernon, City of ¹	09/26/2008	N/A	N/A	09/26/2008	12/21/2018
Walnut, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
West Covina, City of	12/02/2004	N/A	N/A	12/02/2004	09/26/2008
West Hollywood, City of ¹	06/18/1987	N/A	N/A	06/18/1987	09/26/2008
Westlake Village, City of	09/26/2008	N/A	N/A	09/26/2008	04/04/2018

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Whittier, City of	06/28/1974	06/28/1974	12/12/1975	01/16/1981	09/26/2008

¹ No Special Flood Hazard Areas Identified

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Acton Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Agua Amarge Canyon	—	LACFCD	H-3940	—	City of Palos Verdes Estates
Agua Dulce Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Agua Dulce Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Agua Dulce Canyon Creek Lateral	06/02/2021	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 21	August 2008	Los Angeles County
Alamitos Bay	—	LACFCD	H-3940	—	City of Long Beach
Aliso Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Amargosa Creek	—	Rick Engineering Company	EMW-84-1639	November 1985	City of Lancaster; Los Angeles County; City of Palmdale
Amargosa Creek Tributary	—	LACFCD	H-3940	—	City of Lancaster
Anaverde Creek	—	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale
Arrastre Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Arroyo Calabasas	—	LACFCD	H-3940	—	City of Los Angeles
Arroyo San Miguel	01/16/1980	LACFCD	H-3940	August 1978	City of Whittier
Arroyo Sequit	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Avalon Bay	—	LACFCD	H-3940	—	City of Avalon
Avalon Canyon	11/01/1985	LACFCD	H-3940	1977	City of Avalon
Back Channel	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Ballona Creek	12/01/1980	LACFCD	H-3940	June 1978	City of Culver City; City of Los Angeles, Los Angeles County
Ballona Creek Watershed	12/21/2018	BakerAECOM	HSFEHQ-D-09-0368	2016	Los Angeles County
Bar Creek	—	LACFCD	H-3940	—	City of Diamond Bar
Bee Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Big Rock Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Big Rock Creek South Fork	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Big Rock Wash	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	City of Lancaster; Los Angeles County
Big Rock Wash (Profile Base Line)	—	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale
Big Tujunga Wash	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Boulder Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Bouquet Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	March 2014	Los Angeles County; City of Santa Clarita
Bouquet Reservoir	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Broad Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Browns Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
California Aqueduct	—	LACFCD	H-3940	—	Los Angeles County
Canada De Los Alamos Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Carlos Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Carr Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Castaic Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Castaic Lagoon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Castaic Lake	—	LACFCD	H-3940	—	Los Angeles County
Channel No. 2	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Channel No. 3	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Charlie Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Chatsworth Reservoir	12/02/1980	LACFCD	H-3940	December 1979	City of Los Angeles
Cherry Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Chesebro Creek	08/03/1998	Ensign & Buckley	EMW-93-C-4151	*	City of Agoura Hills; Los Angeles County
Cold Creek	12/21/2018	BakerAECOM	HSFEHQ-D-09-0368	2016	Los Angeles County
Colorado Lagoon	12/02/1980	LACFCD	H-3940	August 1979	City of Long Beach
Compton Creek	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Compton, City of Long Beach, Los Angeles County
Consolidated Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Coyote Canyon Creek	09/29/1989	LACFCD	H-3940	1984	City of Santa Clarita
Coyote Creek	—	LACFCD	H-3940	—	City of Long Beach
Cruthers Creek	—	LACFCD	H-3940	—	Los Angeles County
Dark Canyon	12/21/2018	BakerAECOM	HSFEHQ-D-09-0368	2016	Los Angeles County
Dark Canyon West Branch	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dewitt Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dominguez Channel	12/02/1980	LACFCD	H-3940	August 1978	City of Los Angeles, City of Carson, City of Gardena

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Dorr Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dowd Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dry Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Santa Clarita
Dry Canyon	—	LACFCD	H-3940	—	City of Calabasas; Los Angeles County
East Basin	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Elizabeth Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Elizabeth Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Elizabeth Lake Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Eller Slough	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Elsmere Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Encino Reservoir	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Entrance Channel (Marina Del Ray)	12/02/1980	LACFCD	H-3940	December 1979	City of Los Angeles
Escondido Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	March 2014	Los Angeles County
Fenner Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Fish Harbor	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Flood Control Channel to Aliso Creek	—	LACFCD	H-3940	—	City of Los Angeles
Flowline No. 1	04/15/1980	LACFCD	H-3940	October 1978	City of Santa Fe Springs
Garapito Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Gavin Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County; City of Santa Clarita
Gorman Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Gorman Canyon Creek	09/29/1989	LACFCD	H-3940	1984	City of Santa Clarita
Graham Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Grandview Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Grandview Canyon Creek (2)	—	LACFCD	H-3940	—	Los Angeles County
Harbor Lake	—	LACFCD	H-3940	—	City of Los Angeles
Haskell Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
Hasley Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Holcomb Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Holmes Creek	—	LACFCD	H-3940	—	Los Angeles County
Hughes Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Iron Canyon	06/02/2021	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Jesus Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Kagel Canyon	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles, Los Angeles County
Kentucky Springs Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Lake Lindero	08/03/1998	Ensign & Buckley	EMW-93-C-4151	—	City of Agoura Hills; City of Westlake Village
La Mirada Creek	07/02/1980	LACFCD	H-3940	January 1979	City of La Mirada
Lake Palmdale	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Lake Street Overflow	01/20/1999	Ensign & Buckley	EMQ-90-C-9133	—	City of Burbank
Las Flores Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Malibu
Las Flores Canyon	—	LACFCD	H-3940	—	Los Angeles County
Las Virgenes Creek	01/01/2016	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	August 2010	City of Calabasas; Los Angeles County
Leaming Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Lemontaine Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Liberty Canyon	12/02/1980	LACFCD	H-3940	December 1979	City of Agoura Hills; Los Angeles County
Limekiln Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Lindero Canyon	08/03/1998	Ensign & Buckley	EMW-93-C-4151	08/03/1998	City of Agoura Hills
Lion Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Little Rock Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Little Rock Reservoir	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Little Rock Wash	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	City of Lancaster; Los Angeles County
Little Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84-1639	—	Los Angeles County
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84-1639	November 1985	Los Angeles County; City of Palmdale
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84-1639	November 1985	Los Angeles County; City of Palmdale
Little Rock Wash - Profile B	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	City of Palmdale
Little Rock Wash - Profile C	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	Los Angeles County; City of Palmdale
Little Tujunga Wash	12/02/1980	LACFCD	H-3940	August 1979	Los Angeles County; City of Los Angeles
Lobo Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Lockheed Drain Channel	01/20/1999	LACFCD	H-3940	July 1978	City of Burbank; City of Los Angeles
Lockheed Storm Drain	—	LACFCD	H-3940	—	City of Burbank; City of Los Angeles
Long Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Lopez Canyon Channel	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Los Angeles
Los Angeles County Flood Control Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles County Flood Control Channel to Aliso Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles County Storm Drain	12/02/1980	LACFCD	H-3940	December 1979	City of Carson; Los Angeles County
Los Angeles County Storm Drain (2)	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Carson

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Los Angeles Harbor	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles Reservoir	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles River	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Compton; City of Cudahy; City of Long Beach; City of Los Angeles; Los Angeles County; City of Paramount; City of South Gate
Los Angeles River Flood Control Channel	03/16/1981	LACFCD	H-3940	July 1978	City of Burbank
Los Cerritos Channel (1)	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach; City of Los Angeles
Lyon Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Santa Clarita
Main Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Malaga Canyon	—	LACFCD	H-3940	—	City of Palos Verdes Estates
Malibu Creek	12/02/1980	LACFCD	H-3940	December 1979	City of Malibu, Los Angeles County
Malibu Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Marina Del Ray	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Los Angeles
Marine Stadium	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Medea Creek	08/03/1998	Ensign & Buckley	EMW-93-C-4151	—	City of Agoura Hills; Los Angeles County
Middle Harbor	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Mill Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Milton B. Arthur Lakes	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Mint Canyon Creek	06/02/2021	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Mint Canyon Creek Overflow	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Mint Canyon Spring	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Montebello Municipal Golf Course Pond	09/26/2008	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Montebello
Muscal Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Myrick Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Newhall Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Orders HSFE09-09-J-0001; HSFE09-14-J-0025	March 2014	City of Santa Clarita
Newhall Creek Left Overbank 2	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-14-J-0025	July 2015	City of Santa Clarita
Newhall Creek Left Overbank 3	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-14-J-0025	July 2015	City of Santa Clarita
Newhall Creek Right Overbank 1	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-14-J-0025	July 2015	City of Santa Clarita
Oak Springs Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Oak Springs Canyon Creek Overflow	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Oakgrove Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Old Topanga Canyon	12/21/2018	BakerAECOM	HSFEHQ-D-09-0368	2016	Los Angeles County
Oro Fino Canyon Creek	09/29/1989	LACFCD	H-3940	1984	City of Santa Clarita
Oso Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pacific Ocean	04/21/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-12-J-0005	October 2015	El Segundo, City of; Hermosa Beach, City of; Long Beach, City of; Los Angeles, City of; Los Angeles County, Unincorporated Areas; Malibu, City of; Manhattan Beach, City of; Palos Verdes Estates, City of; Rancho Palos Verdes, City of; Redondo Beach, City of; Santa Monica, City of; Torrance, City of
Pacific Terrace Harbor	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Pacoima Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Pacoima Wash	12/02/1980	LACFCD	H-3940	August 1979	Los Angeles County; City of Los Angeles
Pallett Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pallett Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Palmdale Ditch	—	LACFCD	H-3940	—	Los Angeles County
Palo Comando Creek	08/03/1998	Ensign & Buckley	EMW-93-C-4151	—	City of Agoura Hills; Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Palomas Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
Pico Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Pine Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pine Canyon Creek	—	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale
Piru Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Placerita Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-13-J-0158	July 2015	Los Angeles County; City of Santa Clarita
Placerita Creek Overflow	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Plum Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Plum Canyon Creek	06/02/2021	STARRII	HSFEHQ-09-D-0368	June 2019	Los Angeles County
Portal Ridge Wash	01/06/1982	LACFCD	H-3940	March 1979	City of Lancaster
Potrero Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Potrero Valley Creek (Westlake Lake)	—	LACFCD	H-3940	—	City of Westlake Village
Puzzle Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pyramid Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Quail Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Quigley Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-13-J-0158	July 2015	City of Santa Clarita
Railroad Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
Railroad Canyon Creek Left Overbank	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
Ramirez Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Malibu
Reservoir near UCLA	—	LACFCD	H-3940	—	City of Los Angeles
Rice Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Rio Hondo Channel	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Bell Gardens; City of Downey; Los Angeles County; City of Montebello; City of Pico Rivera; City of South Gate
Rio Hondo Channel Tributary	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Montebello
Roberts Canyon Creek	—	LACFCD	H-3940	—	City of Azusa
Rock Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Romero Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Rustic Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	City of Los Angeles
Salt Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
San Dimas Wash	—	LACFCD	H-3940	—	City of San Dimas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
San Francisquito Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	March 2014	Los Angeles County; City of Santa Clarita
San Gabriel River	12/02/1980	LACFCD	H-3940	December 1979	Azusa, City of; Bellflower, City of; Cerritos, City of; Downey, City of; Lakewood, City of; Long Beach, City of; Los Angeles County, Unincorporated Areas; Norwalk, City of; Pico Rivera, City of
San Martinez Chiquito Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
San Martinez Grande Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
San Pedro Bay	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Long Beach
Sand Canyon Creek	06/02/2021	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Sand Canyon Creek Tributary 1	—	LACFCD	H-3940	1984	City of Santa Clarita
Sand Canyon Creek Tributary 2	—	LACFCD	H-3940	1984	City of Santa Clarita
Santa Clara River	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Orders HSFE09-09-J-0001; HSFE09-14-J-0025	July 2015	Los Angeles County; City of Santa Clarita

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Santa Clara River Overflow	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Orders HSFE09-09-J-0001; HSFE09-14-J-0025	July 2015	Los Angeles County
Santa Maria Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Santa Susana Pass Wash	12/02/1999	LACFCD	H-3940	August 1979	City of Los Angeles
Santa Ynez Canyon Reservoir	12/02/1999	LACFCD	H-3940	August 1979	City of Los Angeles
Savage Creek	01/16/1981	LACFCD	H-3940	August 1978	City of Whittier
Sierra Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Sloan Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Soledad Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
South Fork Santa Clara River	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
South Fork Santa Clara River Tributary	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
South Portal Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Spade Spring Canyon Creek	06/02/2021	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County
Stokes Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Sullivan Canyon Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Sunshine Canyon Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Tacobi Creek	—	LACFCD	H-3940	August 1978	City of Whittier
Tapia Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Texas Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Tick Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Tonner Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Topanga Canyon	12/21/2018	BakerAECOM	HSFEHQ-D-09-0368	2016	Los Angeles County; City of Los Angeles
Towsley Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Trancas Creek	09/26/2008	LACFCD	H-3940	December 1979	City of Malibu
Tributary to Unnamed Canyon	06/02/2021	STARR II	HSFE60-15-D-0005	October 2017	Los Angeles County; City of Santa Clarita
Triunfo Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Westlake Village
Turnbull Canyon	01/16/1981	LACFCD	H-3940	August 1978	City of Whittier
Unnamed Canyon Creek (Serra Retreat Area)	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Malibu
Unnamed Stream Main Reach	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 15	February 2012	City of Palos Verdes Estates
Unnamed Stream Tributary 1	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 15	February 2012	City of Palos Verdes Estates
Unnamed Stream Tributary 2	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 15	February 2012	City of Palos Verdes Estates

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Upper Los Angeles River Left Overbank	12/02/1980	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C-2248	May 1991	City of Los Angeles
Vasquez Canyon	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Villa Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Vine Creek	—	LACFCD	H-3940	—	City of West Covina
Violin Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Wayside Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Weldon Canyon	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
West Basin	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
West Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Westlake Reservoir	04/04/2018	LACFCD	D-0368	2015	City of Westlake Village
Whitney Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-14-J-0025	July 2015	Los Angeles County; City of Santa Clarita
Wildwood Canyon Creek	—	LACFCD	H-3940	1984	City of Santa Clarita
Wiley Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Santa Clarita
Willow Springs Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Young Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Zuma Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	City of Malibu, Los Angeles County
UNKNOWN 1 near W. 3rd Street	—	LACFCD	H-3940	December 1980, November 1985	City of Los Angeles; City of West Hollywood
UNKNOWN 2 near W. 3rd Street	—	LACFCD	H-3940	—	City of Los Angeles

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 3 near W. 3rd Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near 4th Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Aberdeen Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Alameda Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 near Alameda Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Alaska Avenue	—	LACFCD	H-3940	August 1978	City of Torrance
UNKNOWN 1 near Amsler Street	—	LACFCD	H-3940	August 1978	City of Torrance
UNKNOWN 1 to Anaverde Creek	—	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale
UNKNOWN 1 near Anza Avenue	—	LACFCD	H-3940	August 1978	City of Torrance
UNKNOWN 1 to Arroyo Calabasas	—	LACFCD	H-3940	—	City of Hidden Hills
UNKNOWN 2 to Arroyo Calabasas	—	LACFCD	H-3940	—	City of Calabasas
UNKNOWN 1 near Baile Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 near Baile Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near S. Beverley Glen Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Big Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-A to Big Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 to Big Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Blinn Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Broad Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 to Broad Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 3 to Broad Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 to California Aqueduct	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 to California Aqueduct	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 3 to California Aqueduct	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 4 to California Aqueduct	—	LACFCD	H-3940	—	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 5 to California Aqueduct	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Camino Real Calle	—	LACFCD	H-3940	June 1981	City of Redondo Beach
UNKNOWN 1 near Chaparal Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Childs Court	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Club View Drive	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Denker Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Edwards AF Base	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 near Edwards AF Base	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2-A near Edwards AF Base	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Eubank Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Glade Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 near Glade Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Glenoaks Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 to Glenoaks Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 3 to Glenoaks Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Gould Avenue	—	LACFCD	H-3940	June 1981	City of Redondo Beach
UNKNOWN 1 near Grenola Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near N. Hoover Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near S. La Cienega Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Lake Palmdale	—	Rick Engineering Company	EMW-84-1639	November 1985	City of Palmdale
UNKNOWN 1 near Laurel Canyon Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Little Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 to Little Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 3 to Little Rock Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Long Beach Freeway	—	LACFCD	H-3940	—	City of Lynwood

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 1 near Louise Avenue	—	LACFCD	H-3940	—	City of Lynwood
UNKNOWN 1 near Lucerne Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near S. Main Street	—	LACFCD	H-3940	—	City of Burbank
UNKNOWN 1 near Magnolia Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Malaga Canyon Creek	—	LACFCD	H-3940	—	City of Palos Verdes Estates
UNKNOWN 2 to Malaga Canyon Creek	—	LACFCD	H-3940	—	City of Palos Verdes Estates
UNKNOWN 2-A to Malaga Canyon Creek	—	LACFCD	H-3940	—	City of Palos Verdes Estates
UNKNOWN 1 near Marathon Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Melrose Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Mines Avenue	—	LACFCD	H-3940	—	City of Montebello
UNKNOWN 1 to Myrick Canyon Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Overland Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 near Overland Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near W. Olympic Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-A to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-A-1 to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-A-2 to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-B to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-B-1 to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-C to Pallett Creek	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 to Paso Robles Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Pershing Drive	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Portal Ridge Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-A to Portal Ridge Wash	—	LACFCD	H-3940	—	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 1-B to Portal Ridge Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-C to Portal Ridge Wash	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Rexbon Road	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Ripley Avenue	—	LACFCD	H-3940	June 1981	City of Redondo Beach
UNKNOWN 1 near Roscoe Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near San Diego Freeway	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to San Fernando Road	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 to San Fernando Road	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to San Gabriel River	—	LACFCD	H-3940	—	City of Long Beach
UNKNOWN 1 to Santa Susana Creek	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1-A to Santa Susana Creek	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 to Santa Susana Creek	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Sesnon Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Sheldon Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near W. Slausson Avenue	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 near W. Slausson Avenue	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near State Highway 110	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near W. Sunset Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Sunset Canyon Drive	—	LACFCD	H-3940	—	City of Burbank
UNKNOWN 1 near Susanna Place	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near W. Temple Street	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Toledo Street	—	LACFCD	H-3940	August 1978	City of Torrance
UNKNOWN 2 near Toledo Street	—	LACFCD	H-3940	August 1978	City of Torrance
UNKNOWN 1 near UCLA	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Vail Avenue	—	LACFCD	H-3940	—	City of Montebello

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 1 near S. Van Ness Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Via Valmonte	—	LACFCD	H-3940	August 1978	City of Torrance
UNKNOWN 1 near Victory Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 near Vincent Street	—	LACFCD	H-3940	June 1981	City of Redondo Beach
UNKNOWN 2 near Vincent Street	—	LACFCD	H-3940	June 1981	City of Redondo Beach
UNKNOWN 1 to Vine Creek	—	LACFCD	H-3940	—	City of West Covina
UNKNOWN 2 to Vine Creek	—	LACFCD	H-3940	—	City of West Covina
UNKNOWN 1 near Walker Avenue	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1 to Weldon Canyon Creek	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 1-A to Weldon Canyon Creek	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN WEST of Edwards AF Base	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN WEST of Edwards AF Base	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN WEST of Edwards AF Base	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1-A to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2 to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 2-A to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 3 to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 3-A to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 4 to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 5 to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 6 to UNKNOWN WEST	—	LACFCD	H-3940	—	Los Angeles County
UNKNOWN 1 near Wilshire Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 2 near Wilshire Boulevard	—	LACFCD	H-3940	—	City of Los Angeles
UNKNOWN 3 near Wilshire Boulevard	—	LACFCD	H-3940	—	City of Los Angeles

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 1 near Woodman Place	—	LACFCD	H-3940	—	City of Los Angeles

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and any previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 30: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Agoura Hills, City of	04/04/2018	*	Initial CCO	*
		*	Final CCO	*
Alhambra, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Arcadia, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Artesia, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Avalon, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Azusa, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Baldwin Park, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bell, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bell Gardens, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Bellflower, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Beverly Hills, City of ¹	12/21/2018	*	Initial CCO	*
		*	Final CCO	*
Bradbury, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Burbank, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Calabasas, City of	12/21/2018	*	Initial CCO	*
		*	Final CCO	*
Carson, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Cerritos, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Claremont, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Commerce, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Compton, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Covina, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Cudahy, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Culver City, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Diamond Bar, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Downey, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Duarte, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
El Monte, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
El Segundo, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Gardena, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Glendale, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Glendora, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Hawaiian Gardens, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Hawthorne, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Hermosa Beach, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Hidden Hills, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Huntington Park, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Industry, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Inglewood, City of ¹	12/21/2018	*	Initial CCO	*
		*	Final CCO	*
Irwindale, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Canada Flintridge, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Habra Heights, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
La Mirada, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Puente, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
La Verne, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lakewood, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Lancaster, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Lawndale, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lomita, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Long Beach, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Los Angeles, City of	06/02/2021	12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
		10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Los Angeles County, Unincorporated Areas	06/02/2021	12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
		10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII
Lynwood, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Malibu, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Manhattan Beach, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Maywood, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Monrovia, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Montebello, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Monterey Park, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Norwalk, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Palmdale, City of	06/02/2021	12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
		10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII
Palos Verdes Estates, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Paramount, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Pasadena, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Pico Rivera, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Pomona, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Rancho Palos Verdes, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Redondo Beach, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Rolling Hills, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Rolling Hills Estates, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Rosemead, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Dimas, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Fernando, City of ¹	06/02/2021	12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
		10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII
San Gabriel, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Marino, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Santa Clarita, City of	06/02/2021	12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
		10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Santa Fe Springs, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Santa Monica, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Sierra Madre, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Signal Hill, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
South El Monte, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South Gate, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South Pasadena, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Temple City, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Torrance, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Vernon, City of ¹	12/21/2018	*	Initial CCO	*
		*	Final CCO	*

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Walnut, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
West Hollywood, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Westlake Village, City of	04/04/2018	*	Initial CCO	*
		*	Final CCO	*
Whittier, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

¹No Special Flood Hazard Areas Identified

*No information available

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <http://www.fema.gov>.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Los Angeles County, California and Incorporated Areas, (FEMA 2008).

Table 31 is a list of the locations where FIRMs for Los Angeles County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 31: Map Repositories

Community	Address	City	State	Zip Code
Agoura Hills, City of	Planning Department 30001 Ladyface Court	Agoura Hills	CA	91301
Alhambra, City of ¹	City Hall 111 South First Street	Alhambra	CA	91801
Arcadia, City of ¹	Planning Department 240 West Huntington Drive	Arcadia	CA	91066
Artesia, City of ¹	City Hall 18747 Clarkdale Avenue	Artesia	CA	90701
Avalon, City of	Planning and Building Department 410 Avalon Canyon Road	Avalon	CA	90704
Azusa, City of	Public Works Department 213 East Foothill Road	Azusa	CA	91702
Baldwin Park, City of ¹	Public Works Department 14403 East Pacific Avenue	Baldwin Park	CA	91706
Bell, City of ¹	City Hall 6330 Pine Avenue	Bell	CA	90201
Bell Gardens, City of	Public Works Department 8372 South Garfield Avenue	Bell Gardens	CA	90201
Bellflower, City of	Planning Department 16600 Civic Center Drive	Bellflower	CA	90706

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Beverly Hills, City of ¹	Community Development Planning Division 455 North Rexford Drive Suite 100	Beverly Hills	CA	90210
Bradbury, City of ¹	City Hall 600 Winston Avenue	Bradbury	CA	91008
Burbank, City of	Public Works Department 150 North Third Street	Burbank	CA	91502
Calabasas, City of	Public Works Department 100 Civic Center Way	Calabasas	CA	91302
Carson, City of	Public Works Department 701 East Carson Street	Carson	CA	90745
Cerritos, City of	City Hall 18125 Bloomfield Avenue	Cerritos	CA	90703
Claremont, City of ¹	City Hall 207 Harvard Avenue	Claremont	CA	91711
Commerce, City of	City Hall 2535 Commerce Way	Commerce	CA	90040
Compton, City of	City Hall 205 South Willowbrook Avenue	Compton	CA	90220
Covina, City of ¹	Public Works Department 534 North Barranca Avenue	Covina	CA	91723
Cudahy, City of	City Hall 5220 Santa Ana Street	Cudahy	CA	90201
Culver City, City of	City Hall Second Floor 9770 Culver Boulevard	Culver City	CA	90232
Diamond Bar, City of	City Hall 21810 Copley Drive	Diamond Bar	CA	91765
Downey, City of	Public Works Department 11111 Brookshire Avenue	Downey	CA	90241
Duarte, City of ¹	Public Works Department 1600 Huntington Drive	Duarte	CA	91010
El Monte, City of ¹	Public Works Department 11333 Valley Boulevard	El Monte	CA	91731
El Segundo, City of	City Hall 350 Main Street	El Segundo	CA	90245

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Gardena, City of	Public Works Department 1717 West 162 nd Street	Gardena	CA	90247
Glendale, City of ¹	City Hall 613 East Broadway Room 200	Glendale	CA	91206
Glendora, City of ¹	City Hall 116 East Foothill Boulevard	Glendora	CA	91741
Hawaiian Gardens, City of ¹	City Hall 21815 Pioneer Boulevard	Hawaiian Gardens	CA	90716
Hawthorne, City of ¹	City Hall 4455 West 126th Street	Hawthorne	CA	90250
Hermosa Beach, City of	City Hall 1315 Valley Drive	Hermosa Beach	CA	90254
Hidden Hills, City of	City Hall 6165 Spring Valley Road	Hidden Hills	CA	91302
Huntington Park, City of ¹	City Hall 6550 Miles Avenue	Huntington Park	CA	90255
Industry, City of ¹	City Hall 15625 East Stafford Street	City of Industry	CA	91744
Inglewood, City of ¹	City Hall One Manchester Boulevard	Inglewood	CA	90301
Irwindale, City of ¹	City Hall 5050 North Irwindale Avenue	Irwindale	CA	91706
La Canada Flintridge, City of ¹	City Hall 1327 Foothill Boulevard	La Canada Flintridge	CA	91011
La Habra Heights, City of ¹	City Hall 1245 North Hacienda Road	La Habra Heights	CA	90631
La Mirada, City of	Public Works Department 15515 Phoebe Avenue	La Mirada	CA	90638
La Puente, City of ¹	City Hall 15900 East Main Street	La Puente	CA	91744
La Verne, City of	City Hall 3660 D Street	La Verne	CA	91750
Lakewood, City of	City Hall 5050 Clark Avenue	Lakewood	CA	90712
Lancaster, City of	City Hall 44933 North Fern Avenue	Lancaster	CA	93534

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Lawndale, City of ¹	City Hall 14717 Burin Avenue	Lawndale	CA	90260
Lomita, City of ¹	City Hall 24300 Narbonne Avenue	Lomita	CA	90717
Long Beach, City of	City Hall 333 West Ocean Boulevard 9 th Floor	Long Beach	CA	90802
Los Angeles, City of	Department of Public Works 1149 South Broadway Suite 810	Los Angeles	CA	90015
Los Angeles County, Unincorporated Areas	Watershed Management 900 South Fremont Avenue	Alhambra	CA	91803
Lynwood, City of	City Hall 11330 Bullis Road	Lynwood	CA	90262
Malibu, City of	City Hall 23825 Stuart Ranch Road	Malibu	CA	90265
Manhattan Beach, City of	City Hall 1400 Highland Avenue	Manhattan Beach	CA	90266
Maywood, City of ¹	City Hall 4319 East Slauson Avenue	Maywood	CA	90270
Monrovia, City of ¹	City Hall 415 South Ivy Avenue	Monrovia	CA	91016
Montebello, City of	City Hall 1600 West Beverly Boulevard	Montebello	CA	90640
Monterey Park, City of ¹	City Hall 320 West Newmark Avenue	Monterey Park	CA	91754
Norwalk, City of	Engineering Department 12700 Norwalk Blvd	Norwalk	CA	90651
Palmdale, City of	Development Services Building 38250 North Sierra Highway	Palmdale	CA	93550
Palos Verdes Estates, City of	City Hall 340 Palos Verdes Drive West	Palos Verdes Estates	CA	90274

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Paramount, City of	Public Works Department 15300 Downey Avenue	Paramount	CA	90723
Pasadena, City of	City Hall 175 North Garfield Avenue	Pasadena	CA	91101
Pico Rivera, City of	Department of Public Works 6615 Passons Boulevard	Pico Rivera	CA	90660
Pomona, City of ¹	City Hall 505 South Garey Avenue	Pomona	CA	91766
Rancho Palos Verdes, City of	City Hall 30940 Hawthorne Boulevard	Rancho Palos Verdes	CA	90275
Redondo Beach, City of	Planning Division 415 Diamond Street	Redondo Beach	CA	90277
Rolling Hills, City of ¹	Planning Department Two Portuguese Bend Road	Rolling Hills	CA	90274
Rolling Hills Estates, City of ¹	Planning Department 4045 Palos Verdes Drive North	Rolling Hills Estates	CA	90274
Rosemead, City of ¹	City Hall 8838 East Valley Boulevard	Rosemead	CA	91770
San Dimas, City of	Public Works Department 245 East Bonita Avenue	San Dimas	CA	91773
San Fernando, City of ¹	City Hall 117 North Macneil Street	San Fernando	CA	91340
San Gabriel, City of ¹	City Hall 425 South Mission Drive	San Gabriel	CA	91776
San Marino, City of ¹	City Hall 2200 Huntington Drive	San Marino	CA	91108
Santa Clarita, City of	City Hall 23920 Valencia Boulevard Suite 300	Santa Clarita	CA	91355
Santa Fe Springs, City of	Department of Public Works 11710 East Telegraph Road	Santa Fe Springs	CA	90670
Santa Monica, City of	Department of Public Works 1685 Main Street	Santa Monica	CA	90401
Sierra Madre, City of ¹	City Hall 232 West Sierra Madre Boulevard	Sierra Madre	CA	91024

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Signal Hill, City of ¹	Engineering Department 2175 Cherry Avenue	Signal Hill	CA	90755
South El Monte, City of ¹	Engineering Division 1415 Santa Anita Avenue	South El Monte	CA	91733
South Gate, City of	City Hall 8650 California Avenue	South Gate	CA	90280
South Pasadena, City of ¹	Public Works – Engineering 1414 Mission Street	South Pasadena	CA	91030
Temple City, City of ¹	Engineering Department 9701 Las Tunas Drive	Temple City	CA	91780
Torrance, City of	Community Development 3031 Torrance Boulevard	Torrance	CA	90503
Vernon, City of ¹	Public Works Department 4305 South Santa Fe Avenue	Vernon	CA	90058
Walnut, City of ¹	Department of Public Works 398 Lemon Creek Drive Suite E	Walnut	CA	91789
West Covina, City of	Public Works Department 1444 West Garvey Avenue	West Covina	CA	91790
West Hollywood, City of ¹	Public Works Department 8300 Santa Monica Boulevard	West Hollywood	CA	90069
Westlake Village, City of	Engineering Department 31200 Oak Crest Drive	Westlake Village	CA	91361
Whittier, City of	Public Works Department 13230 Penn Street	Whittier	CA	90602

¹ No Special Flood Hazard Areas Identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

Table 32: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region IX	Federal Emergency Management Agency, 1111 Broadway, Suite 1200, Oakland, CA 94607-4052 (510) 627-7006
Other Federal Agencies	
USGS website	http://www.usgs.gov
Hydraulic Engineering Center website	http://www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	Kelly Soule, P.E. MBA California Department of Water Resources 3464 El Camino Avenue, Suite 200 Sacramento, CA 95742 916-574-2314 kelly.soule@water.ca.gov
State GIS Coordinator	David Harris Agency Information Officer California Resources Agency 1416 Ninth Street, Room 1311 Sacramento, CA 95814 Phone: 916-445-5088 david.harris@resources.ca.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.