

Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
-	-	0+00	-	-	-	-	10,524	-	At Lopez Dam
1	1.6	83+22	0:20	0:38	5.5	7.5	9,803	346	Downstream of Lopez Lake
2	2.5	131+49	0:32	0:50	11.6	6.2	9,655	311	Camino Las Ventanas
3	2.9	153+20	0:38	1:10	21.2	9.2	9,227	306	Talley Farms Road
4	3.4	179+80	0:46	1:16	10.2	10.1	9,180	279	Downstream of Terminal Reservoir
5	4.8	255+54	1:02	1:30	12.1	6.7	9,009	224	Cecchetti Road
6	6.1	320+24	1:18	2:04	26.7	9.5	8,529	193	Upstream of Huasna Road
7	6.8	359+57	1:30	2:16	16.0	4.2	8,421	152	Downstream of Tar Spring Creek
8	7.7	406+81	1:50	2:40	22.8	8.9	8,249	138	
9	8.7	460+77	2:14	3:02	22.4	5.5	8,151	100	Traffic Way
10	8.9	467+83	2:16	3:04	19.2	4.1	8,128	96	US 101 Highway
11	9.5	503+18	2:30	3:18	20.5	6.1	8,052	79	Fair Oaks Avenue
12	10.6	560+97	2:56	3:42	11.1	4.4	7,966	53	Cabrillo Highway (Hwy 1)
13	11.6	610+70	3:20	4:54	9.1	4.7	6,597	32	Railroad Bridge downstream of 22nd Street
14	12.6	667+86	3:54	9:40	7.7	2.2	2,716	16	Outlet of Arroyo Grande Creek into Ocean

Notes:

- This map is part of the emergency action plan for Lopez Dam.
- The inundation map meets all applicable state and federal standards and has been prepared in consideration of all potential downstream hazards by a licensed civil engineer.
- The results presented herein do not reflect the structural integrity of the dam and are not a statement of the dam's safety. The analysis presented is based on a hypothetical dam failure using 2D modeling software with a 100' grid.
- Cross Section Values:
 Distance from Dam and Stationing are reckoned from the centerline of Lopez Dam Spillway along the displayed Flow Path. Distance from Dam is in miles and Stationing is in feet (Stationing 12+34 = 1,234').
 Initial Wave Arrival Time, 1 Foot is the time to achieve 1 foot of water depth after initiation of the dam break.
 Time to Peak is the time to achieve the maximum water depth after initiation of the dam break.
 Deflood Time, 1 Foot is the time elapsed from the flood wave arrival time until water recedes to within one foot of its pre-flood water elevation.
 Peak Inundation Depth is the maximum water depth.
 Peak Velocity is the maximum velocity.
 Peak Discharge is an estimate of the maximum flow rate integrated over the entire cross section line.
 Peak Water Elevation is the maximum water surface elevation.
 Time Above 1 Foot is the time water depth is above 1 foot.
 Location Description indicates major roads that cross, or are near, the Flow Path at that cross section.
- The values displayed in the table for each cross section are the maximum for that parameter along each cross section line, except for the Initial Wave Arrival Time, 1 Foot and Time to Peak which are the minimum for that parameter along each cross section line. The minimum time values associated with 1D channels embedded in the 2D model are excluded.
- For other details refer to the supporting report "Lopez Dam Failure and Inundation Study" 31 December 2017.
- Map projection: California State Plane, Zone 5, Feet, North American Datum 1983. Reference Points and border tics display these coordinate values. All elevations are referenced to North American Vertical Datum 1988.



COUNTY OF SAN LUIS OBISPO

0 3,500 7,000 Feet
Scale 1:42,000

- Flow Path
- Cross Section
- Detailed Sheet Extent
- Approx. Inundation Extent
- Approx. Limits of Fair Weather Spillway-Failure Inundation

Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway

Federal Dam ID: CA00887 State Dam ID: 1055.000

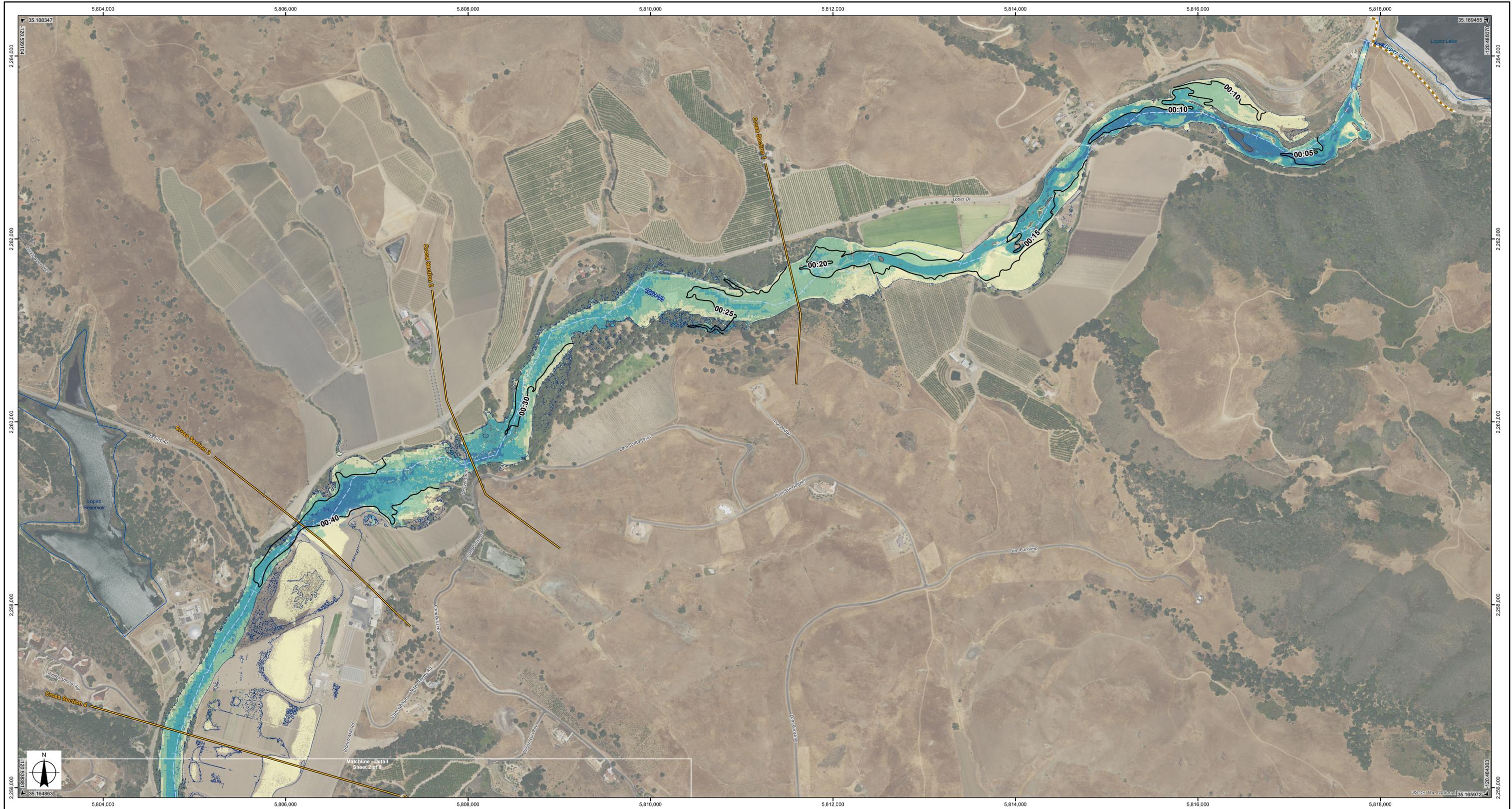
Overview Sheet

San Luis Obispo County
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Model Date	Map Date	Description	Prepared By	Accepted By
12/24/2017	02/18/2019	FINAL	GEI Consultants	DSOD

NOTICE
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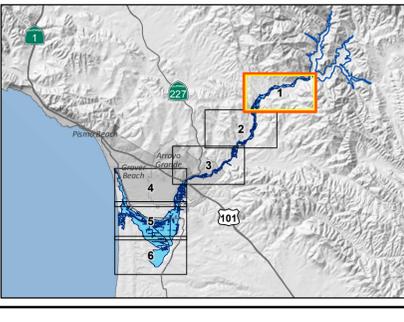
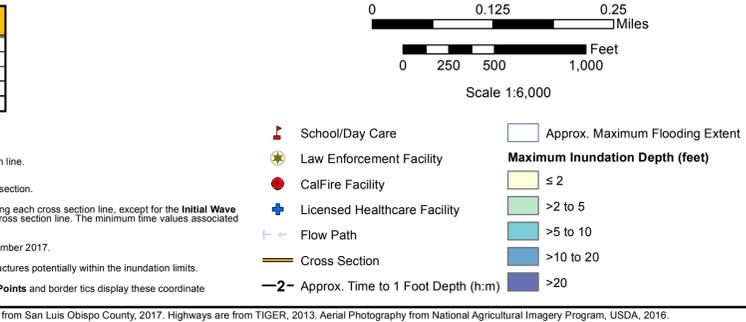
Dam Owner: San Luis Obispo County Flood Control and Water Conservation District
 County Government Center, Room 206
 San Luis Obispo, CA 93408
 Information Contact: John Diodati, (805) 781-5252
 Emergency Contact: (805) 781-5252
 Inundation Analysis Performed by: GEI Consultants, Inc.
 and Inundation Maps Created by: Mark Fortner, PE 48268



Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
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1	1.6	83+22	0:20	0:38	5.5	7.5	9,803	346	Downstream of Lopez Lake
2	2.5	131+49	0:32	0:50	11.6	6.2	9,655	311	Camino Las Ventanas
3	2.9	153+20	0:38	1:10	21.2	9.2	9,227	306	Talley Farms Road
4	3.4	179+80	0:45	1:16	10.2	10.1	9,180	279	Downstream of Terminal Reservoir

Notes:

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- Cross Section Values continued: Peak Inundation Depth is the maximum water depth. Peak Velocity is the maximum velocity. Peak Discharge is an estimate of the maximum flow rate integrated over the entire cross section line. Time Above 1 Foot is the time water depth is above 1 foot. Location Description indicates major roads that cross, or are near, the Flow Path at that cross section.
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- For other details refer to the supporting report "Lopez Dam Inundation Technical Study" 31 December 2017.
- Structures are shown in the aerial photo on the maps but may not clearly display all possible structures potentially within the inundation limits.
- Map projection: California State Plane, Zone 5, Feet, North American Datum 1983. Reference Points and border ticks display these coordinate values. All elevations are referenced to North American Vertical Datum 1988.



COUNTY OF SAN LUIS OBISPO

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Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway Flood Depth and Arrival Time

Federal Dam ID: CA00887 State Dam ID: 1055.000

Detail Sheet 1 of 6
San Luis Obispo County

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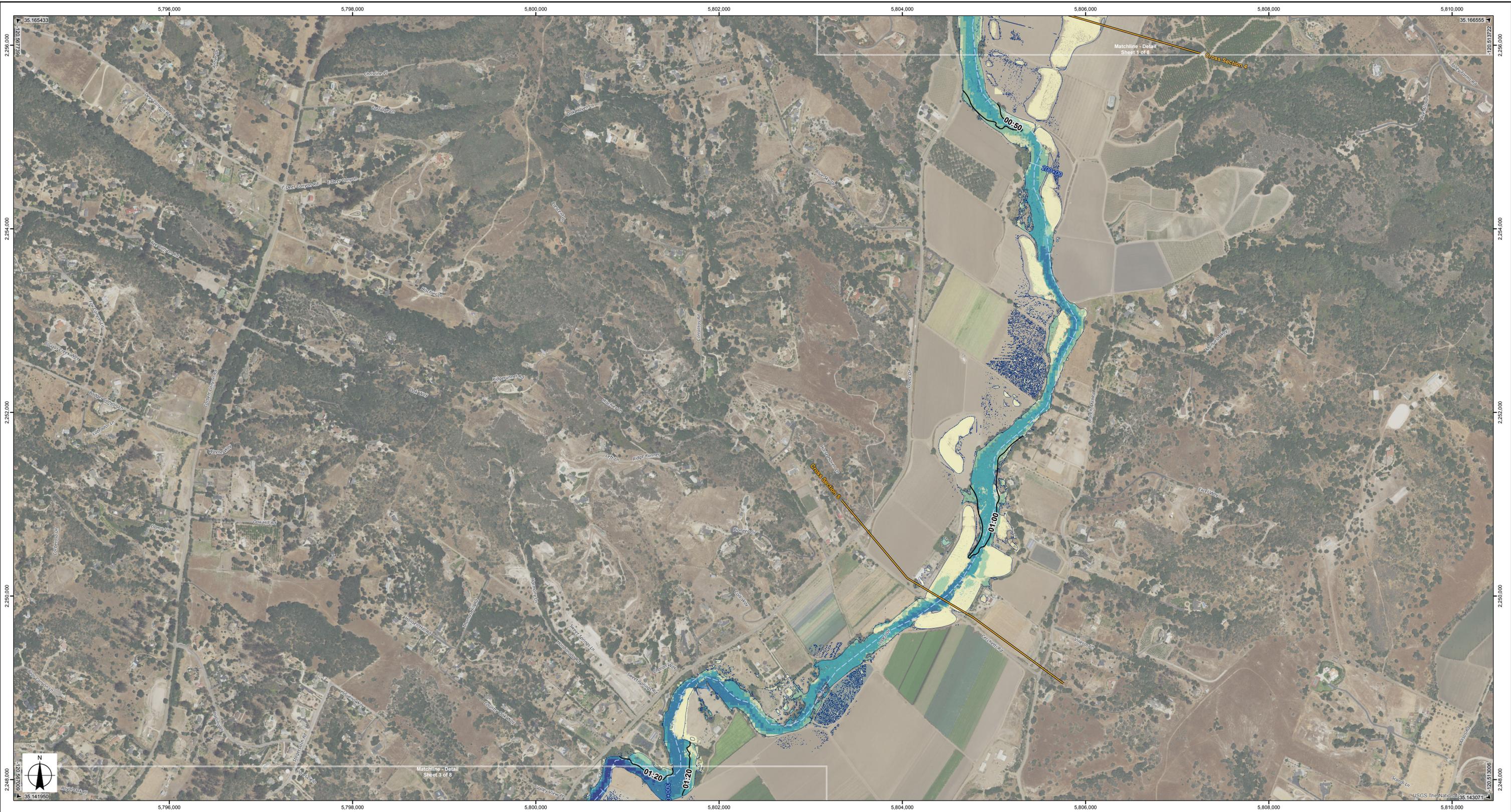
Model Date	Map Date	Description	Prepared By	Accepted By
12/24/2017	02/18/2019	FINAL	GEI Consultants	DSOD

Dam Owner: San Luis Obispo County Flood Control and Water Conservation District
County Government Center, Room 206
San Luis Obispo, CA 93408

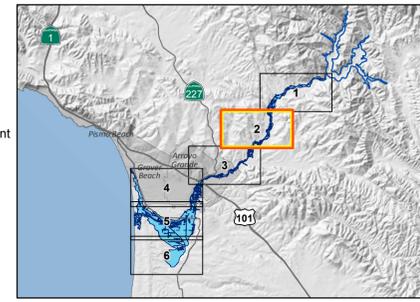
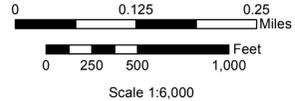
Information Contact: John Diodati, (805) 781-5252
Emergency Contact: (805) 781-5252

Inundation Analysis Performed by: GEI Consultants, Inc.
Mark Forthner, PE 48266

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Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
4	3.4	179+80	0:46	1:16	10.2	10.1	9,180	279	Downstream of Terminal Reservoir
5	4.8	255+54	1:02	1:30	12.1	6.7	9,009	224	Cecchetti Road



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Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway Flood Depth and Arrival Time

Federal Dam ID: CA00887 State Dam ID: 1055.000

Detail Sheet 2 of 6
San Luis Obispo County

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Model Date	Map Date	Description	Prepared By	Accepted By
12/24/2017	02/18/2019	FINAL	GEI Consultants	DSOD

Dam Owner: San Luis Obispo County Flood Control and Water Conservation District
County Government Center, Room 206
San Luis Obispo, CA 93408

Information Contact: John Diodati, (805) 781-5252
Emergency Contact: (805) 781-5252

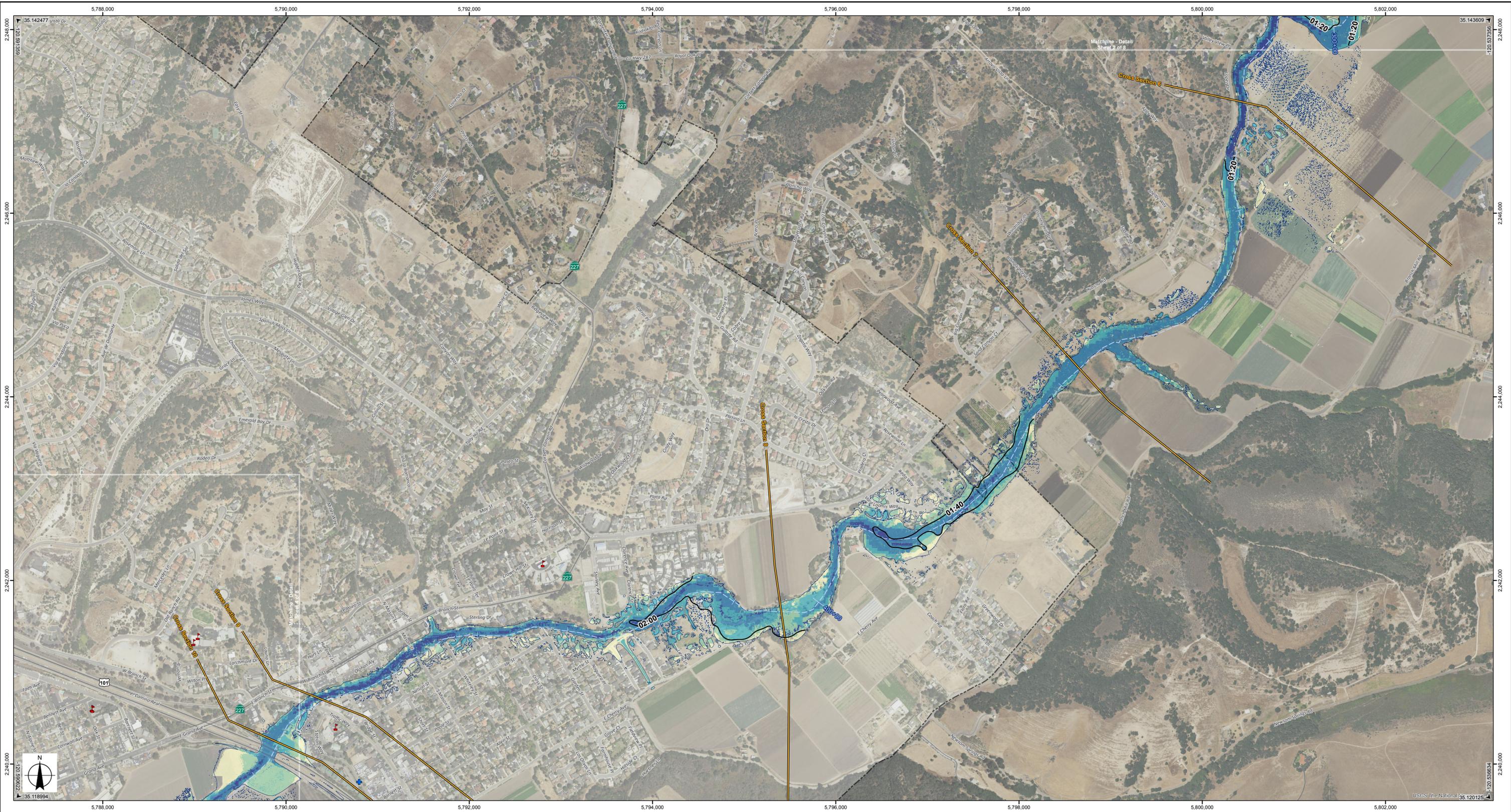
Inundation Analysis Performed by: GEI Consultants, Inc.
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- Cross Section Values continued:
Peak Inundation Depth is the maximum water depth.
Peak Velocity is the maximum velocity.
Peak Discharge is an estimate of the maximum flow rate integrated over the entire cross section line.
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Time Above 1 Foot is the time to achieve 1 foot of water depth at that cross section.
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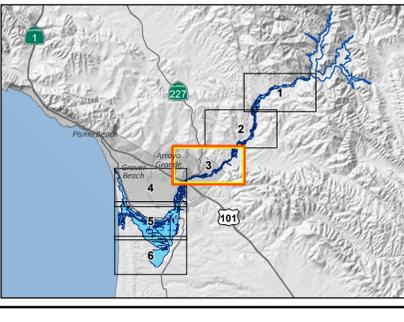
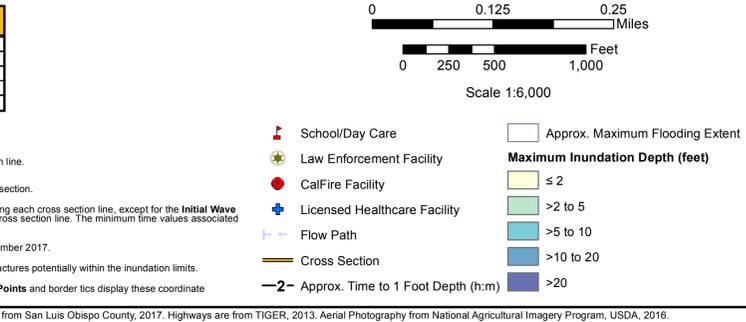
- School/Day Care
- Law Enforcement Facility
- CalFire Facility
- Licensed Healthcare Facility
- Flow Path
- Cross Section
- Approx. Time to 1 Foot Depth (h:m)
- Approx. Maximum Flooding Extent
- Maximum Inundation Depth (feet)**
- ≤ 2
- >2 to 5
- >5 to 10
- >10 to 20
- >20



Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
6	6.1	320+24	1:18	2:04	25.7	9.5	8,529	193	Upstream of Huana Road
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8	7.7	406+81	1:50	2:40	22.8	8.9	8,249	138	
9	8.7	460+77	2:14	3:02	22.4	5.5	8,151	100	Traffic Way
10	8.9	467+83	2:16	3:04	19.2	4.1	8,128	96	US 101 Highway

Notes:

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COUNTY OF SAN LUIS OBISPO

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Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway Flood Depth and Arrival Time

Federal Dam ID: CA00887 State Dam ID: 1055.000
Detail Sheet 3 of 6
 San Luis Obispo County
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Model Date	Map Date	Description	Prepared By	Accepted By
12/24/2017	02/18/2019	FINAL	GEI Consultants	DSOD

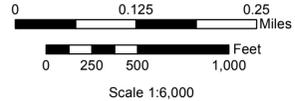
Dam Owner: San Luis Obispo County Flood Control and Water Conservation District
 County Government Center, Room 206
 San Luis Obispo, CA 93408
 Information Contact: John Diodati, (805) 781-5252
 Emergency Contact: (805) 781-5252
 Inundation Analysis Performed by and Inundation Maps Created by: GEI Consultants, Inc. Mark Forthner, PE 48266



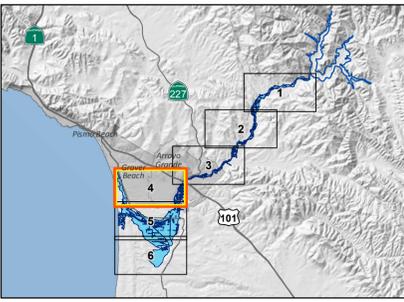
Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
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10	8.9	467+83	2:16	3:04	19.2	4.1	8,128	96	US 101 Highway
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12	10.6	560+97	2:56	3:42	11.1	4.4	7,966	53	Cabrillo Highway (Hwy 1)
13	11.6	610+70	3:20	4:54	9.1	4.7	6,597	32	Railroad Bridge downstream of 22nd Street
14	12.6	667+86	3:54	9:40	7.7	2.2	2,716	16	Outlet of Arroyo Grande Creek into Ocean

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- Map Sources: Incorporated City Limits from CalFire, January 2017. Licensed Healthcare Facilities from Office of Statewide Health Planning and Development, January 2012. Schools, Fire Stations and Law Enforcement Facilities from San Luis Obispo County, 2017. Highways are from TIGER, 2013. Aerial Photography from National Agricultural Imagery Program, USDA, 2016.



- School/Day Care
- Law Enforcement Facility
- CalFire Facility
- Licensed Healthcare Facility
- Flow Path
- Cross Section
- 2- Approx. Time to 1 Foot Depth (h:m)
- Approx. Maximum Flooding Extent
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 - ≤ 2
 - >2 to 5
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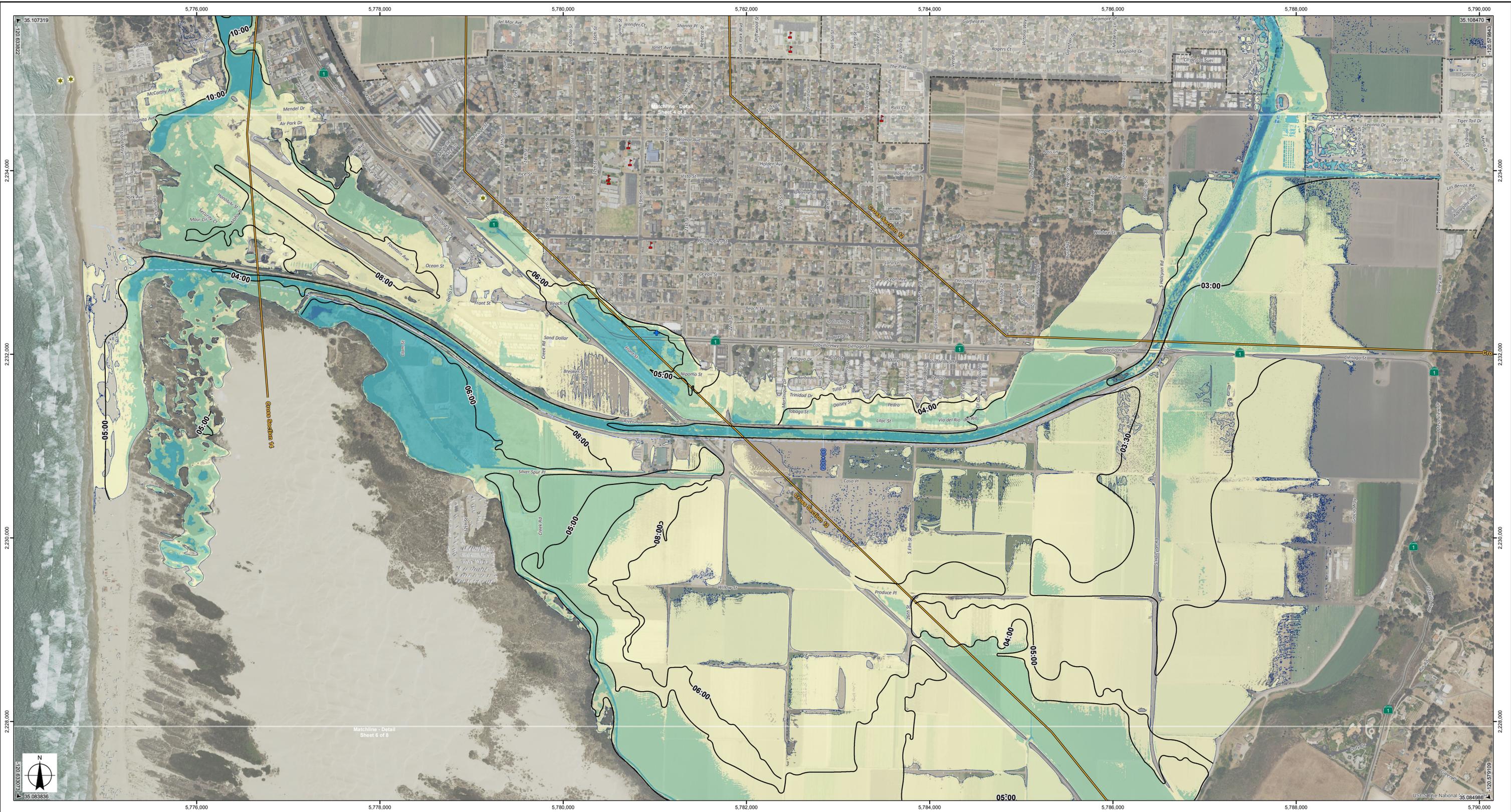
Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway Flood Depth and Arrival Time
 Federal Dam ID: CA00887 State Dam ID: 1055.000
Detail Sheet 4 of 6
 San Luis Obispo County
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Model Date	Map Date	Description	Prepared By	Accepted By
12/24/2017	02/18/2019	FINAL	GEI Consultants	DSOD

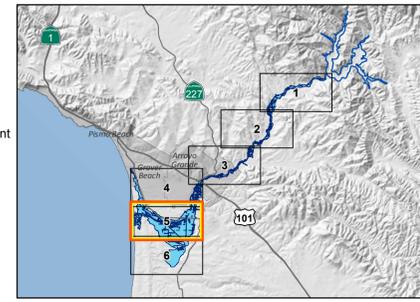
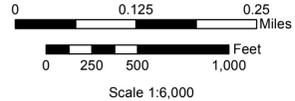
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 San Luis Obispo, CA 93408
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Inundation Analysis Performed by:
 GEI Consultants, Inc.
 Mark Forthner, PE 48266

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Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
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Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway Flood Depth and Arrival Time
Federal Dam ID: CA00887 State Dam ID: 1055.000
Detail Sheet 5 of 6
San Luis Obispo County
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Model Date	Map Date	Description	Prepared By	Accepted By
12/24/2017	02/18/2019	FINAL	GEI Consultants	DSOD

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County Government Center, Room 206
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Information Contact: John Diodati, (805) 781-5252
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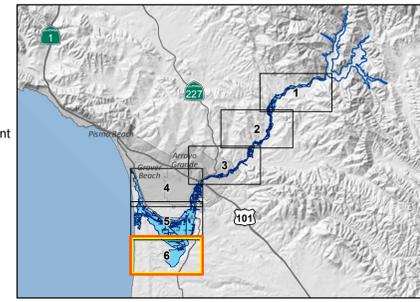
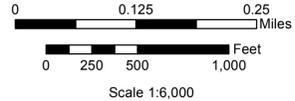
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Initial Wave Arrival Time, 1 Foot is the time to achieve 1 foot of water depth after initiation of the dam break.
Time to Peak is the time to achieve the maximum water depth after initiation of the dam break.
Deflood Time, 1 Foot is the time elapsed from the flood wave arrival time until water recedes to within one foot of its pre-flood water elevation.

4. Cross Section Values continued:
Peak Inundation Depth is the maximum water depth.
Peak Velocity is the maximum velocity.
Peak Discharge is an estimate of the maximum flow rate integrated over the entire cross section line.
Peak Water Elevation is the maximum water surface elevation.
Time Above 1 Foot is the time water depth is above 1 foot.
Location Description indicates major roads that cross, or are near, the Flow Path at that cross section.
5. The values displayed in the table for each cross section are the maximum for that parameter along each cross section line, except for the **Initial Wave Arrival Time, 1 Foot** and **Time to Peak** which are the minimum for that parameter along each cross section line. The minimum time values associated with TD channels embedded in the 2D model are excluded.
6. For other details refer to the supporting report "Lopez Dam Inundation Technical Study" 31 December 2017.
7. Structures are shown in the aerial photo on the maps but may not clearly display all possible structures potentially within the inundation limits.
8. Map projection: California State Plane, Zone 5, Feet, North American Datum 1983. **Reference Points** and border ticks display these coordinate values. All elevations are referenced to North American Vertical Datum 1988.

- School/Day Care
 - Law Enforcement Facility
 - CalFire Facility
 - Licensed Healthcare Facility
 - Flow Path
 - Cross Section
 - Approx. Time to 1 Foot Depth (h:m)
 - Approx. Maximum Flooding Extent
- Maximum Inundation Depth (feet)**
- ≤ 2
 - >2 to 5
 - >5 to 10
 - >10 to 20
 - >20



Cross Section	Distance from Dam (mi)	Station	Initial Wave Arrival Time, 1 Foot (hh:mm)	Time to Peak (hh:mm)	Peak Inundation Depth (ft)	Peak Velocity (fps)	Peak Discharge (cfs)	Peak Water Elevation (ft)	Location Description
13	11.6	610+70	3:20	4:54	9.1	4.7	6,597	32	Railroad Bridge downstream of 22nd Street



DO NOT DISTRIBUTE THIS MAP OR THE ASSOCIATED MODEL INFORMATION WITHOUT PRIOR NOTIFICATION TO THE FEDERAL DAM OWNER

NOTICE
San Luis Obispo County deems this information to be Confidential. Do not share the information unless prior approval is obtained from SLO County's Dam Safety Officer at (805) 781-5252.

Inundation Depth Map for Fair Weather Hypothetical Failure of Lopez Dam Spillway Flood Depth and Arrival Time

Federal Dam ID: CA00887 State Dam ID: 1055.000
Detail Sheet 6 of 6
 San Luis Obispo County
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Model Date 12/24/2017	Map Date 02/18/2019	Description FINAL	Prepared By GEI Consultants	Accepted By DSOD
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Dam Owner: San Luis Obispo County Flood Control and Water Conservation District
 County Government Center, Room 206
 San Luis Obispo, CA 93408
 Information Contact: John Diodati, (805) 781-5252
Emergency Contact: (805) 781-5252
 Inundation Analysis Performed by and Inundation Maps Created by: GEI Consultants, Inc. Mark Forthner, PE 48266

- Notes:**
- This map was developed for the benefit of local emergency managers and the California Emergency Management Agency. The information shown is approximate and should be used as a guide for emergency response and preparation purposes.
 - The inundation map meets all applicable state and federal standards and has been prepared in consideration of all potential downstream hazards by a licensed civil engineer.
 - The results presented herein do not reflect the structural integrity of the dam and are not a statement of the dam's safety. The analysis presented is based on a hypothetical dam failure using 2D modeling software with a 100' grid.
 - Cross Section Values:
Distance from Dam and **Stationing** are reckoned from the centerline of Lopez Dam Spillway along the displayed Flow Path.
Distance from Dam is in miles and **Stationing** is in feet (Stationing 12+34 = 1,234').
Initial Wave Arrival Time, 1 Foot is the time to achieve 1 foot of water depth after initiation of the dam break.
Time to Peak is the time to achieve the maximum water depth after initiation of the dam break.
Deflood Time, 1 Foot is the time elapsed from the flood wave arrival time until water recedes to within one foot of its pre-flood water elevation.
 - Cross Section Values continued:
Peak Inundation Depth is the maximum water depth.
Peak Velocity is the maximum velocity.
Peak Discharge is an estimate of the maximum flow rate integrated over the entire cross section line.
Peak Water Elevation is the maximum water surface elevation.
Time Above 1 Foot is the time water depth is above 1 foot.
Location Description indicates major roads that cross, or are near, the Flow Path at that cross section.
 - For other details refer to the supporting report "Lopez Dam Inundation Technical Study" 31 December 2017.
 - Structures are shown in the aerial photo on the maps but may not clearly display all possible structures potentially within the inundation limits.
 - Map projection: California State Plane, Zone 5, Feet, North American Datum 1983. **Reference Points** and border tics display these coordinate values. All elevations are referenced to North American Vertical Datum 1988.

- School/Day Care
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- Flow Path
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