

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011

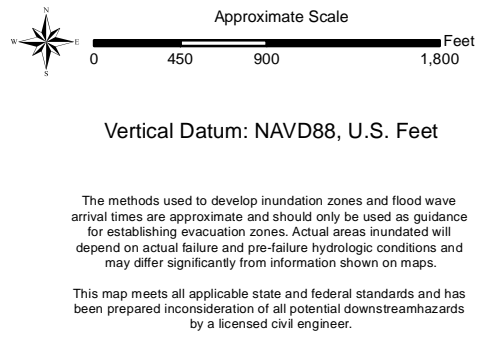
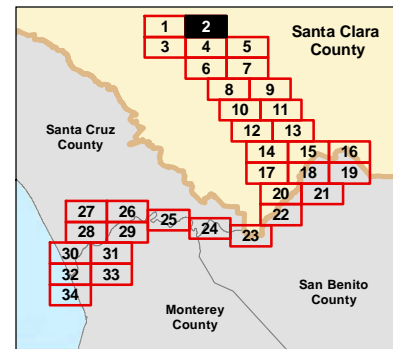
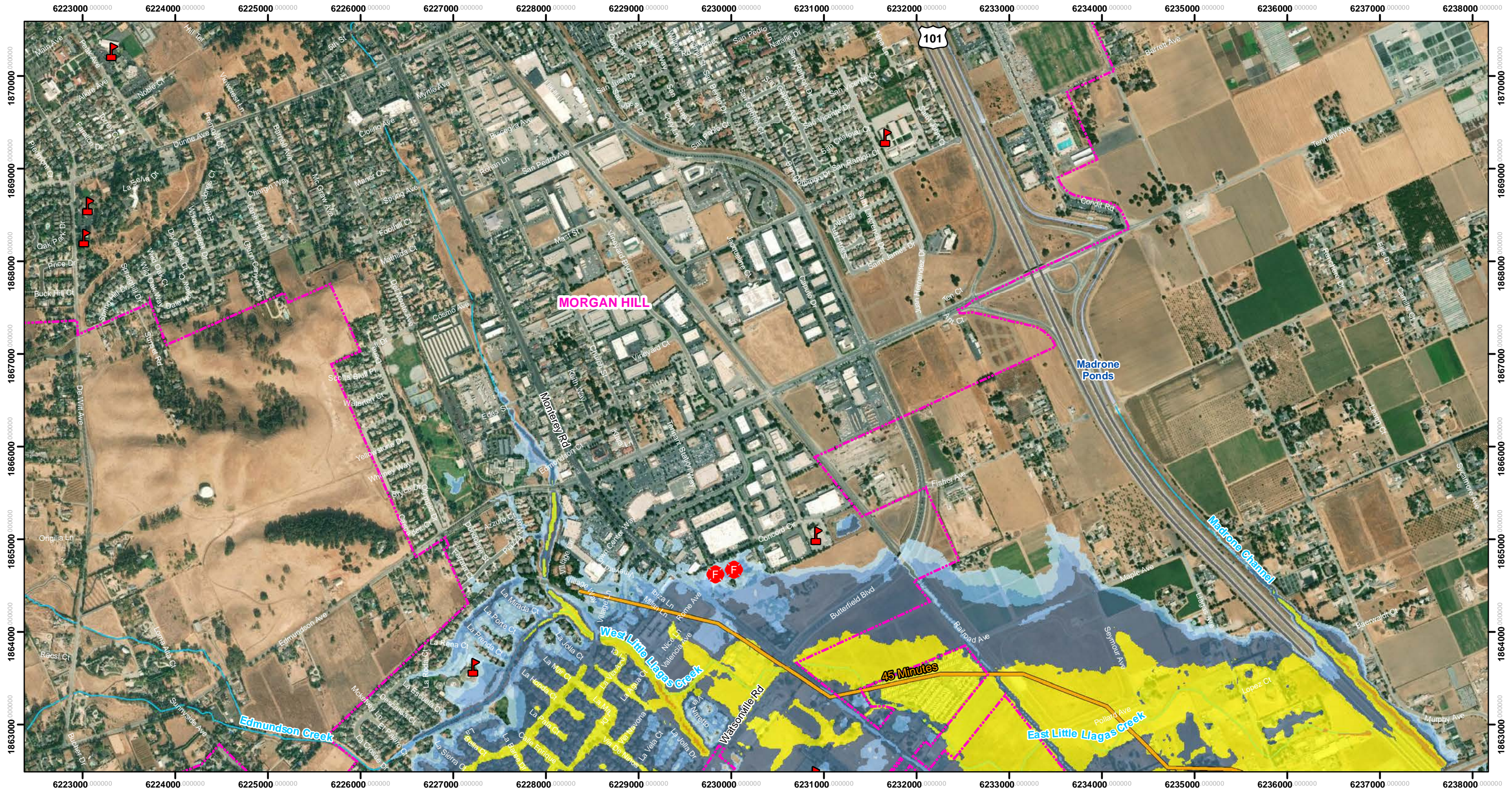
Sheet 1 of 34
 1 in = 1,000 ft

Dam Owner:
 Santa Clara Valley Water District
 5750 Almaden Exp
 San Jose CA 95118

Inundation Analysis and maps created by SCVWD

August 2019

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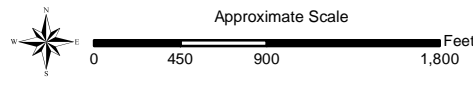
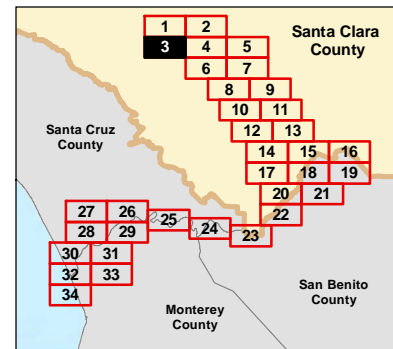
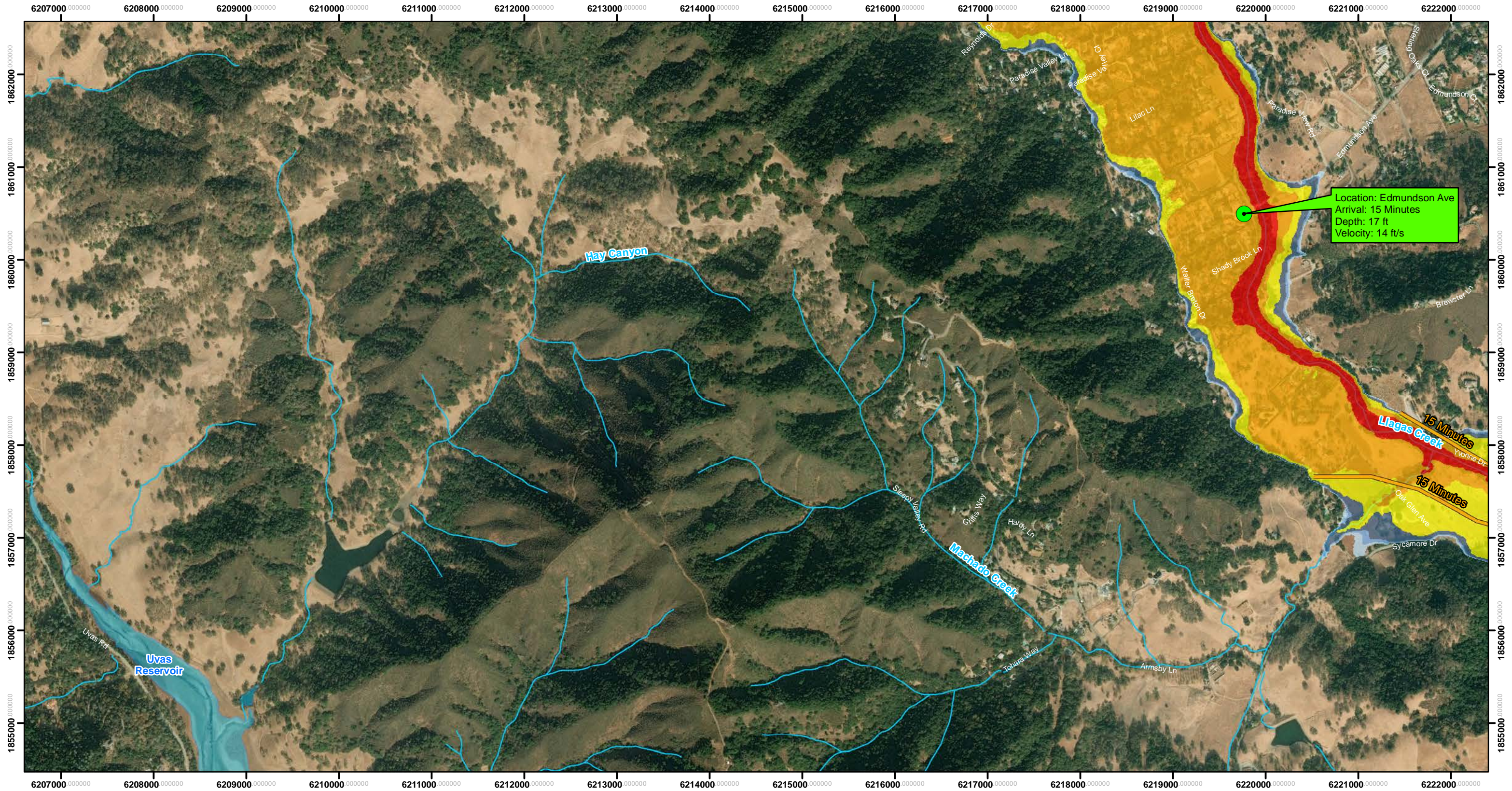


- Legend**
- <1
 - 1 to 2
 - 2 to 5
 - 5 to 10
 - 10 to 20
 - >20
 - Flood Wave Arrival Time
 - Cities
 - Schools
 - Fire Stations

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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
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Sheet 2 of 34
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Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation zones and flood wave arrival times are approximate and should only be used as guidance for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.

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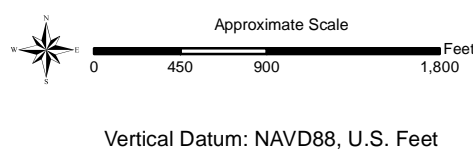
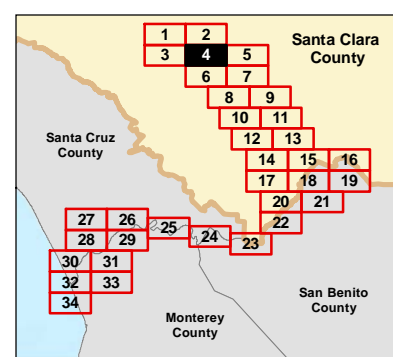
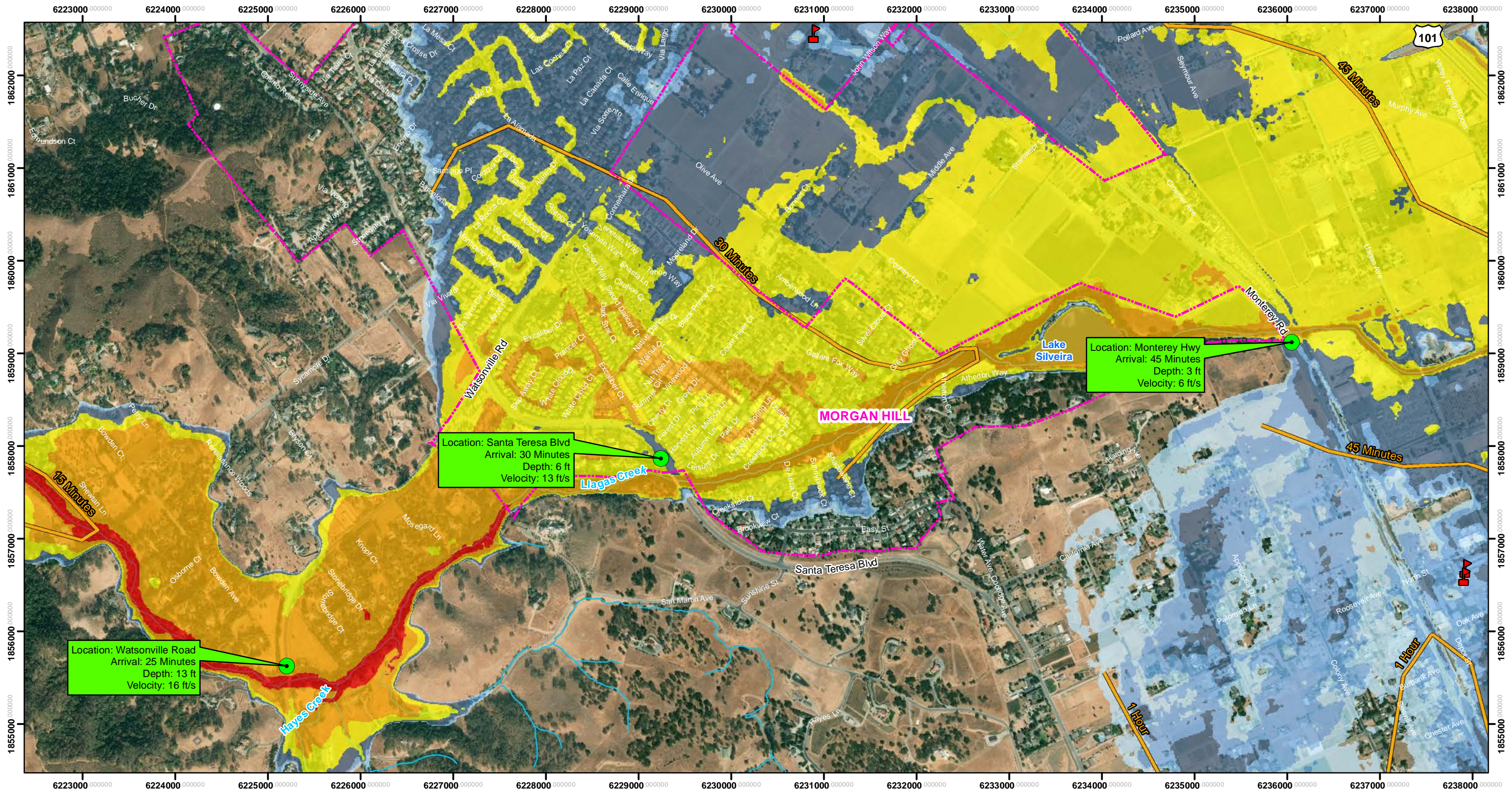
Legend
Maximum Inundation Depth (feet) Cities

- <1
- 1 to 2
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- Road Callouts

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Legend

Maximum Inundation Depth (feet)

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Flood Wave Arrival Time

Road Callouts

Cities

Schools

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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 4 of 34

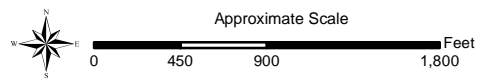
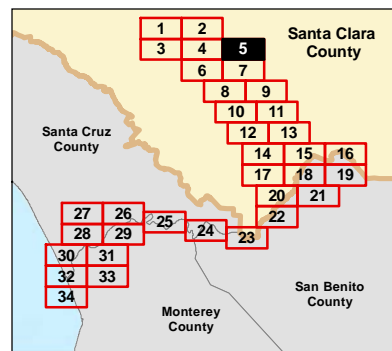
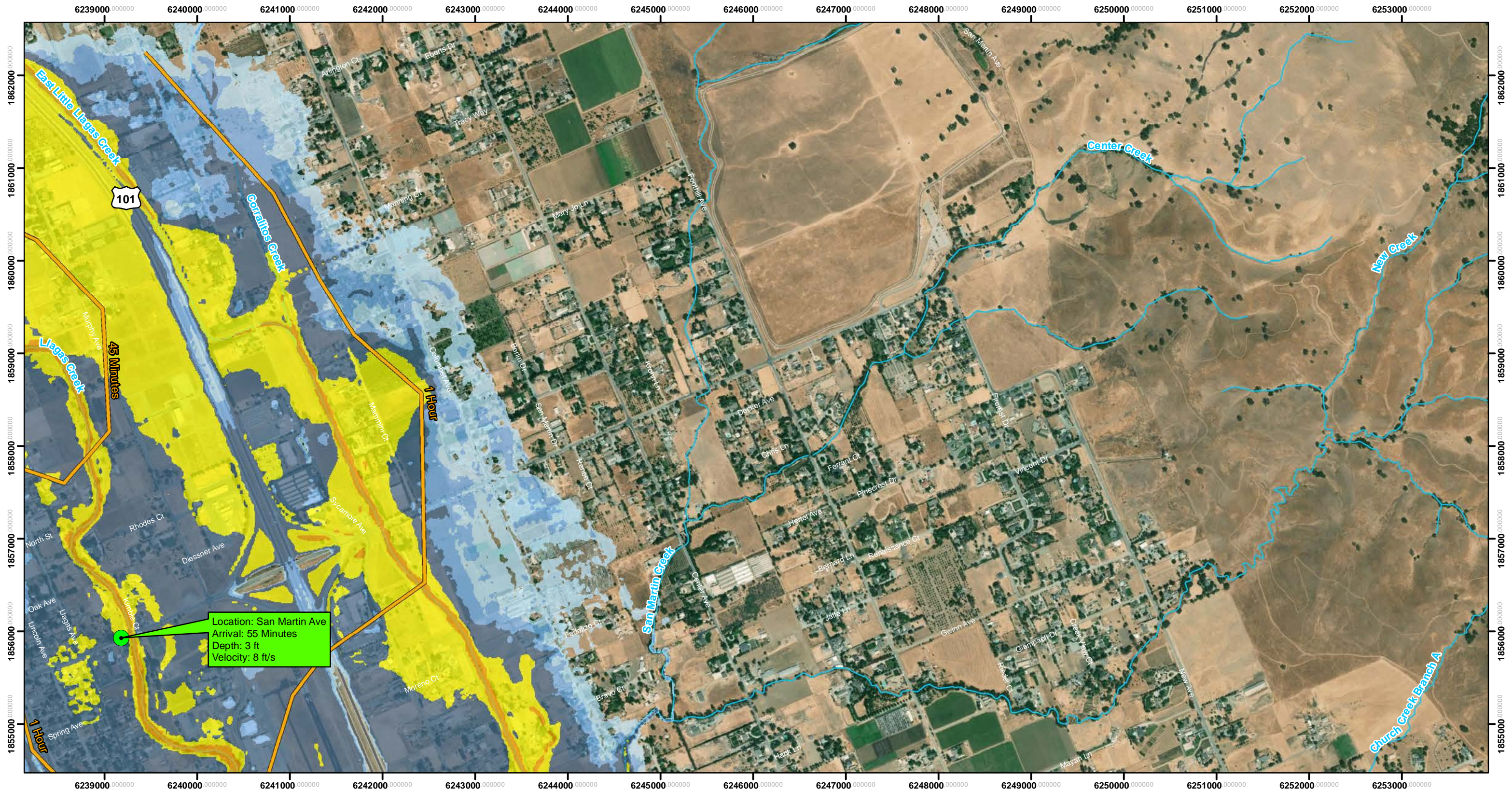
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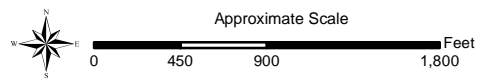
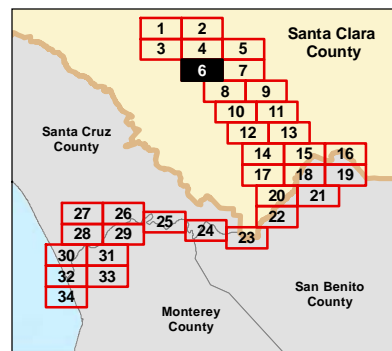
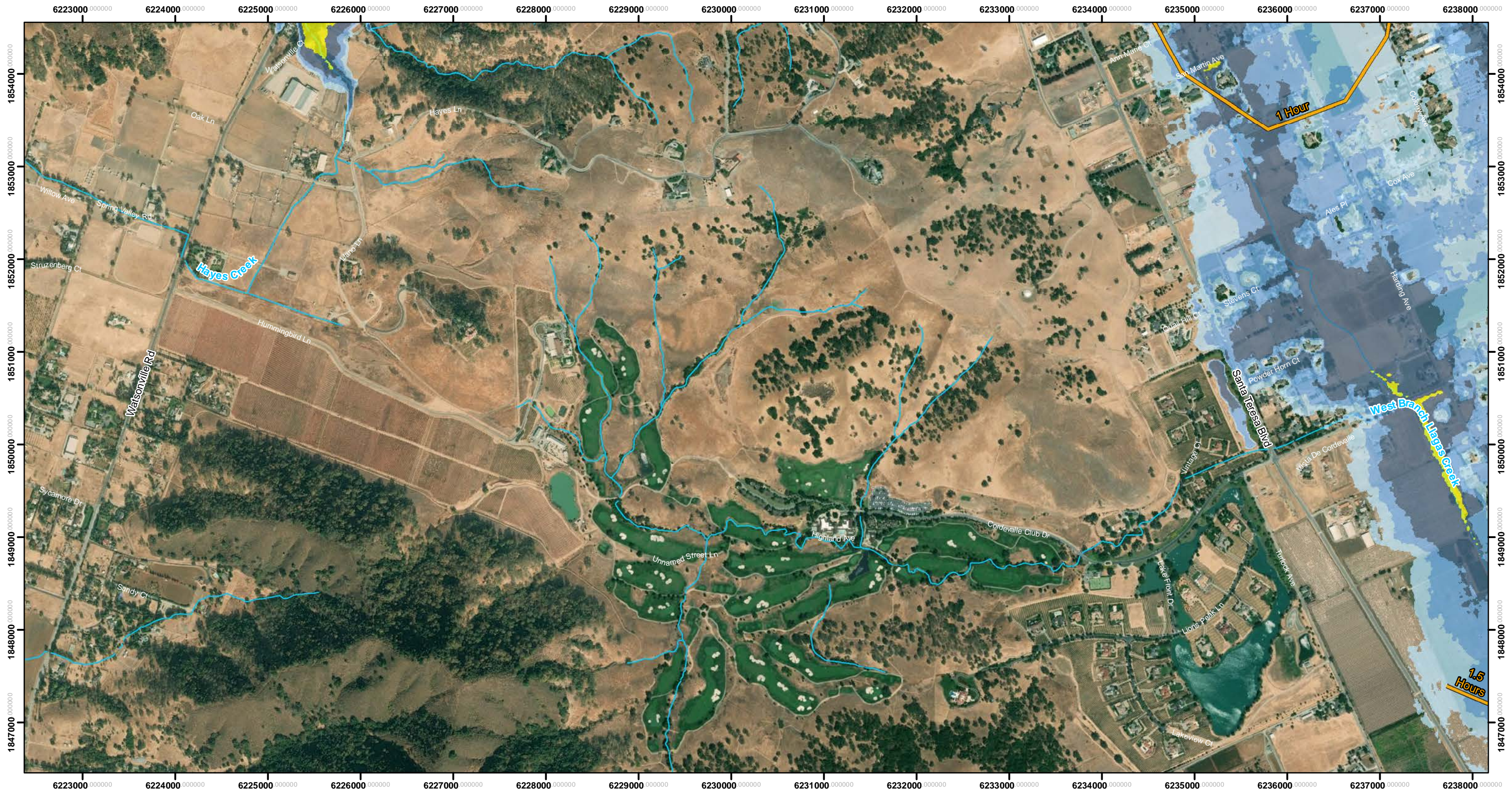
Maximum Inundation Depth (feet) **Cities**

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- Flood Wave Arrival Time
- Road Callouts

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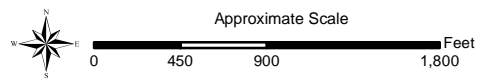
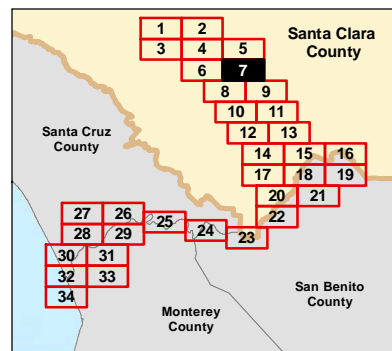
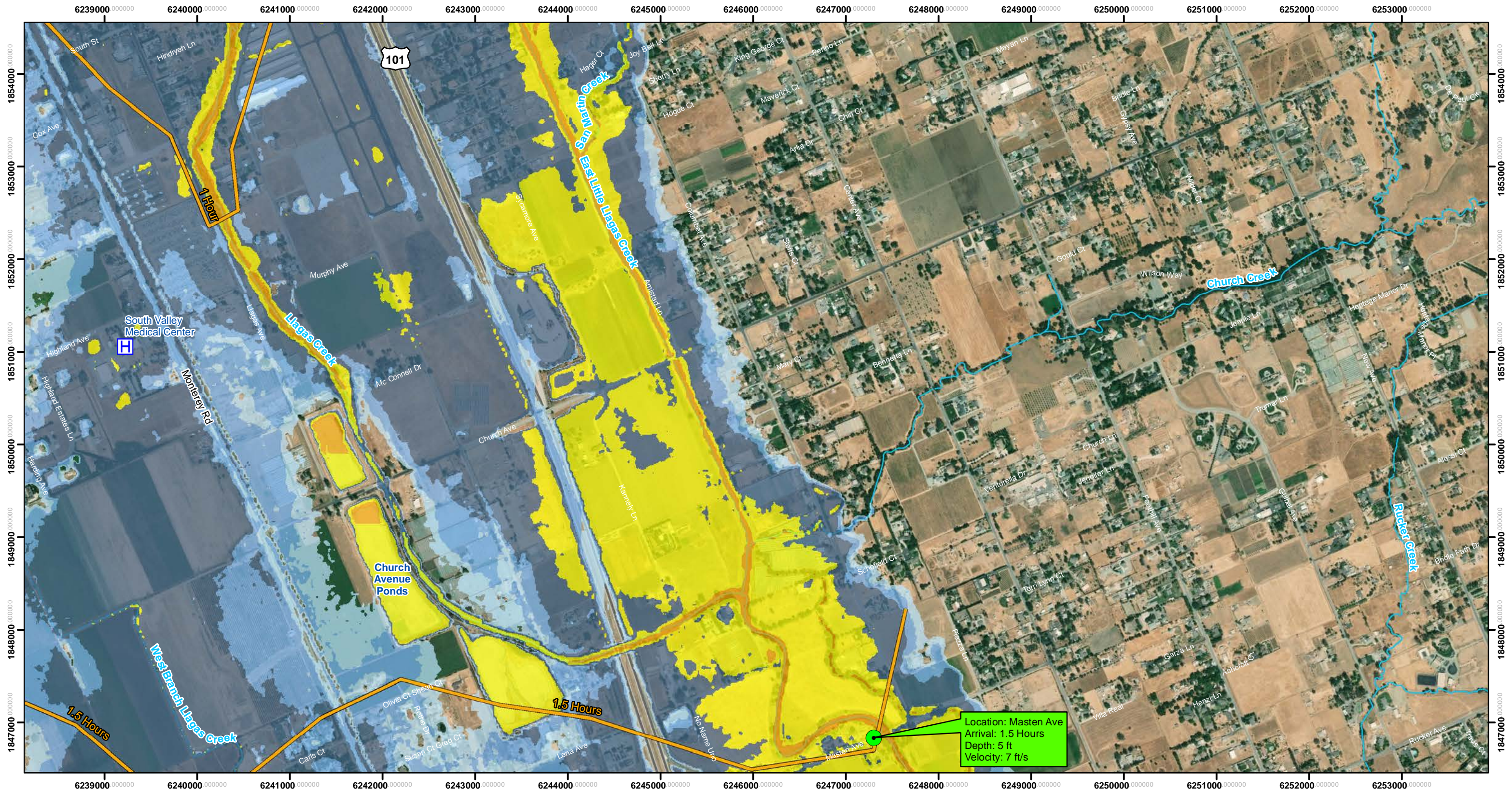
Legend

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- Cities

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Flood Wave Arrival Time

Road Callouts

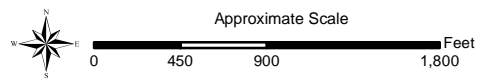
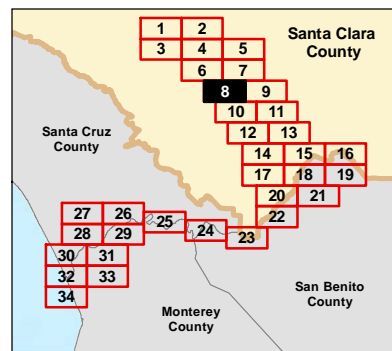
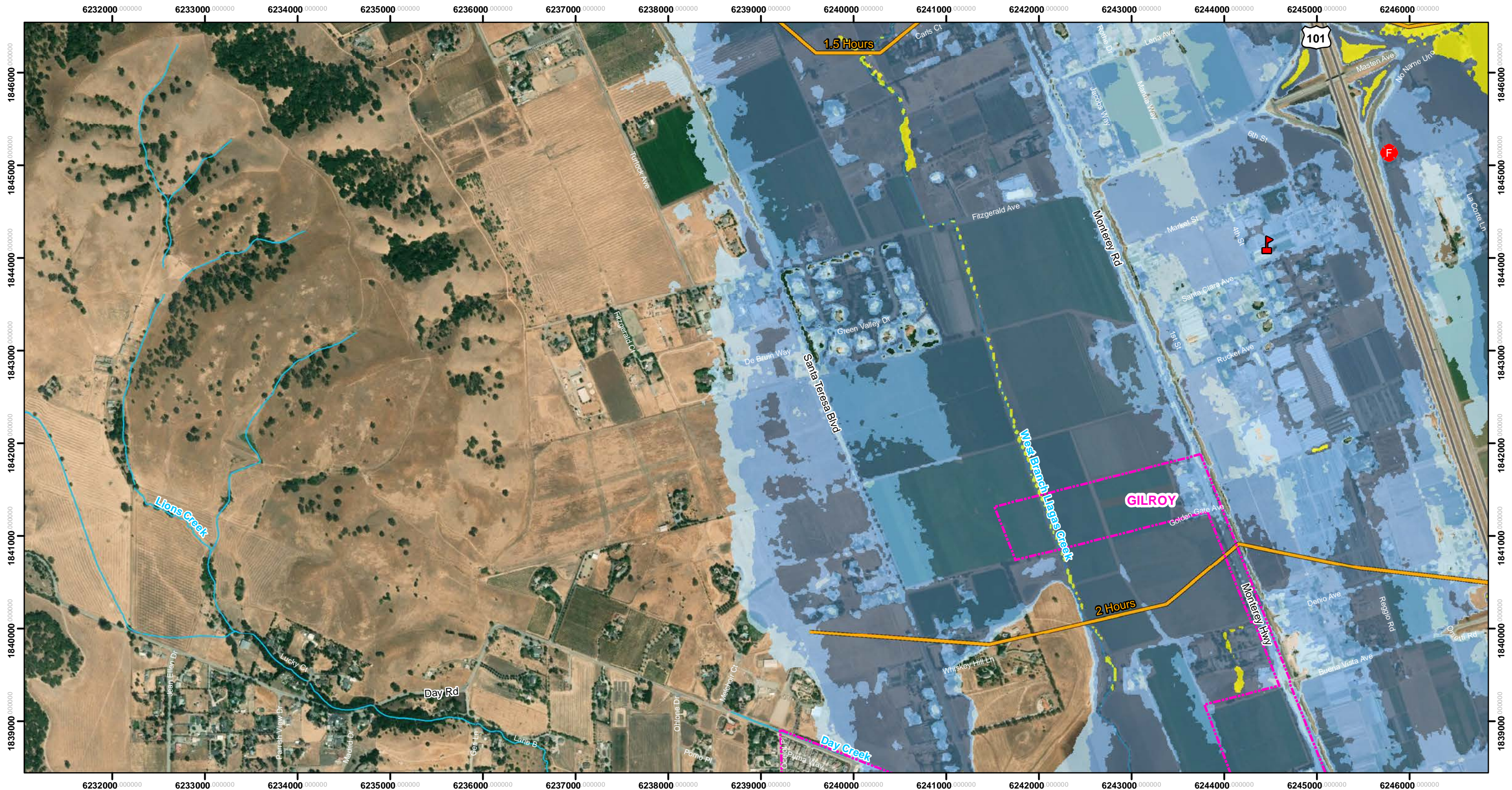
Cities

Hospitals

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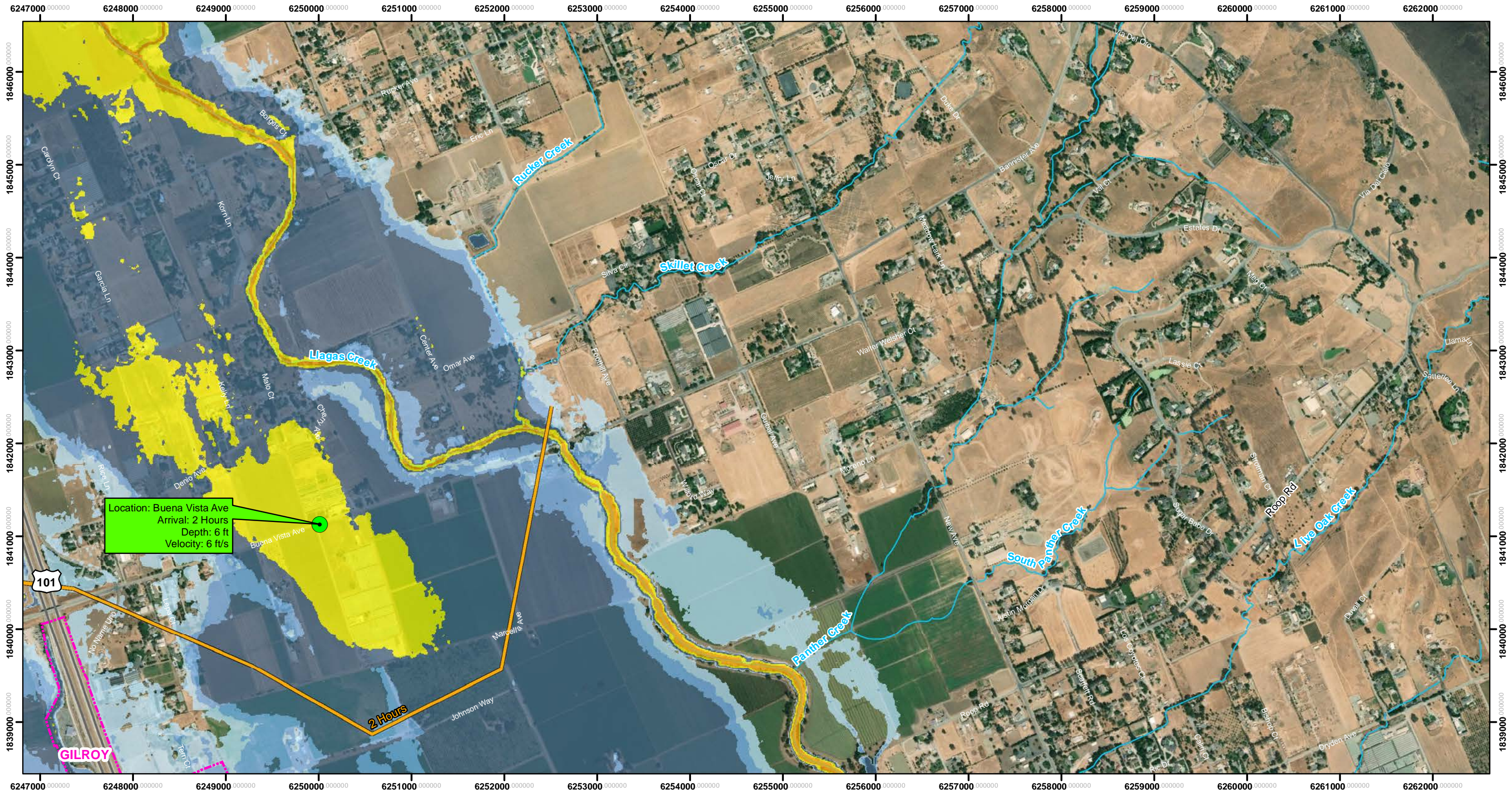
Flood Wave Arrival Time

- Cities
- Schools
- Fire Stations

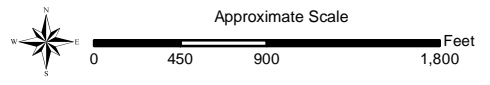
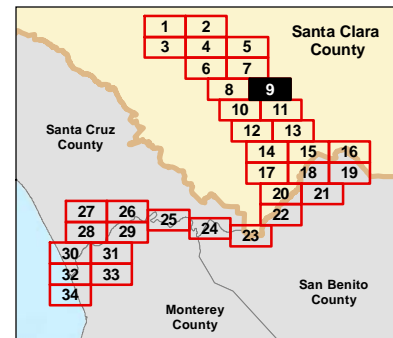
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Location: Buena Vista Ave
 Arrival: 2 Hours
 Depth: 6 ft
 Velocity: 6 ft/s



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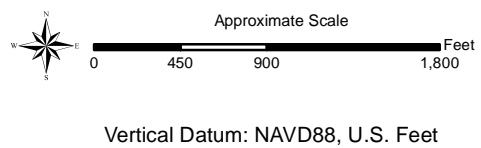
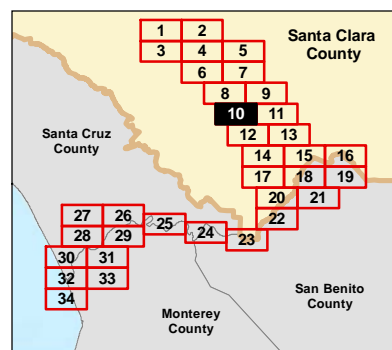
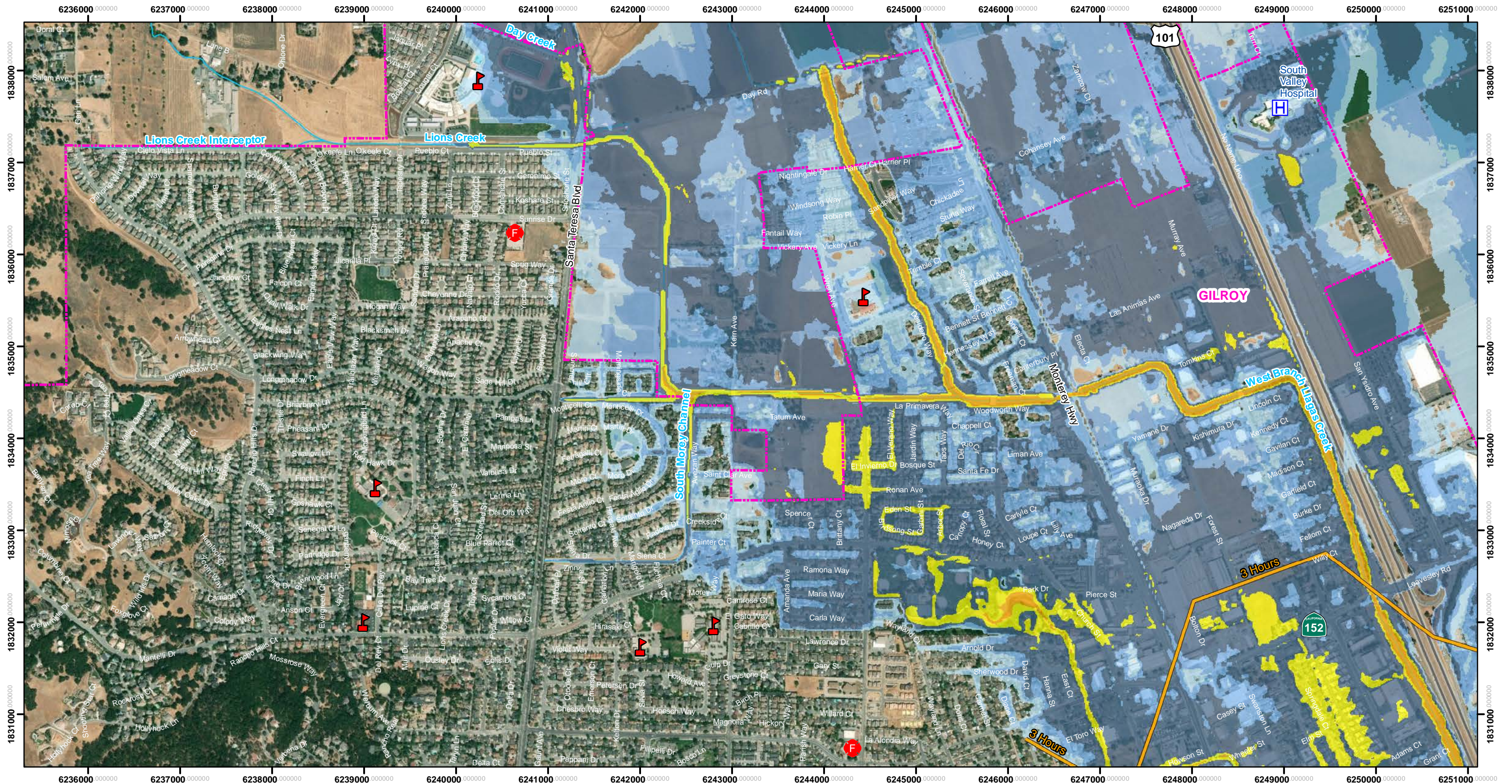
Sheet 9 of 34
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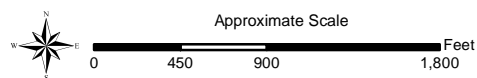
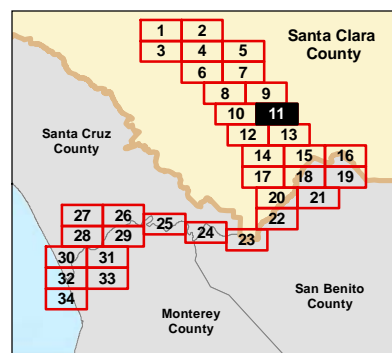
Legend

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- Cities
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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
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Sheet 10 of 34
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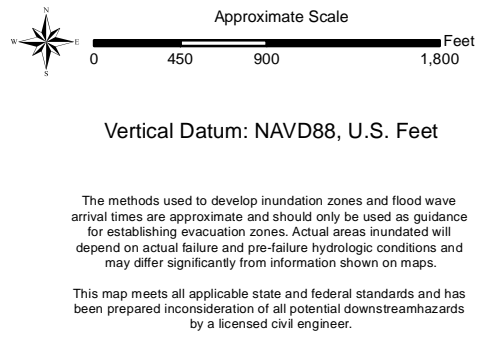
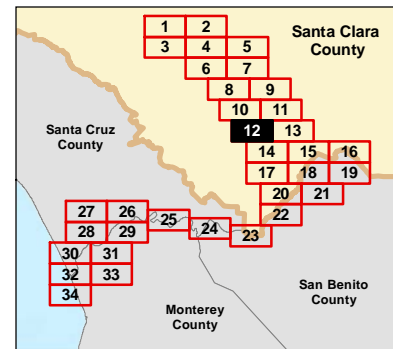
Maximum Inundation Depth (feet) Cities

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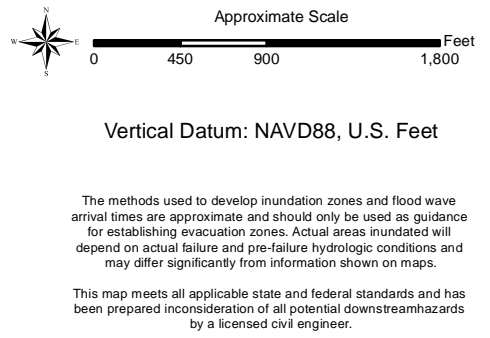
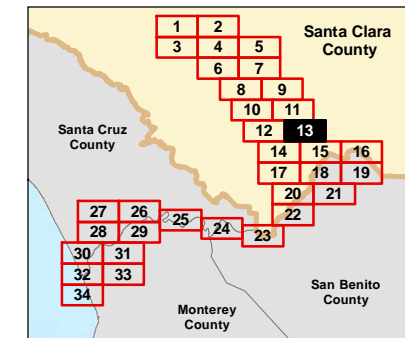


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Sheet 12 of 34
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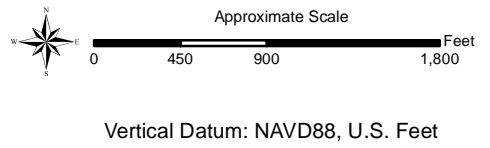
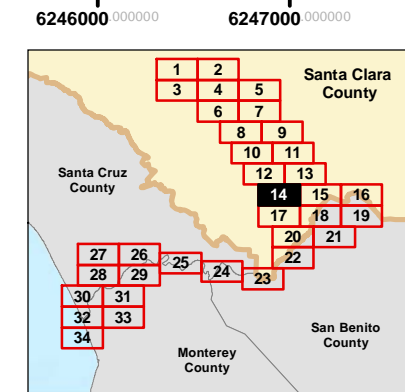


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Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 14 of 34

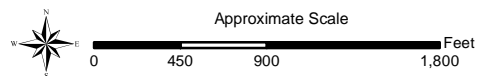
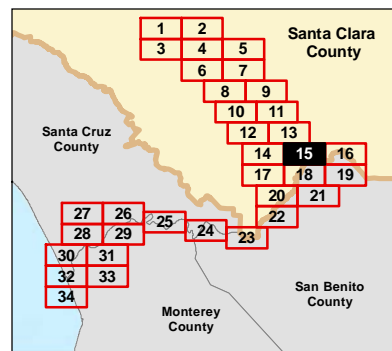
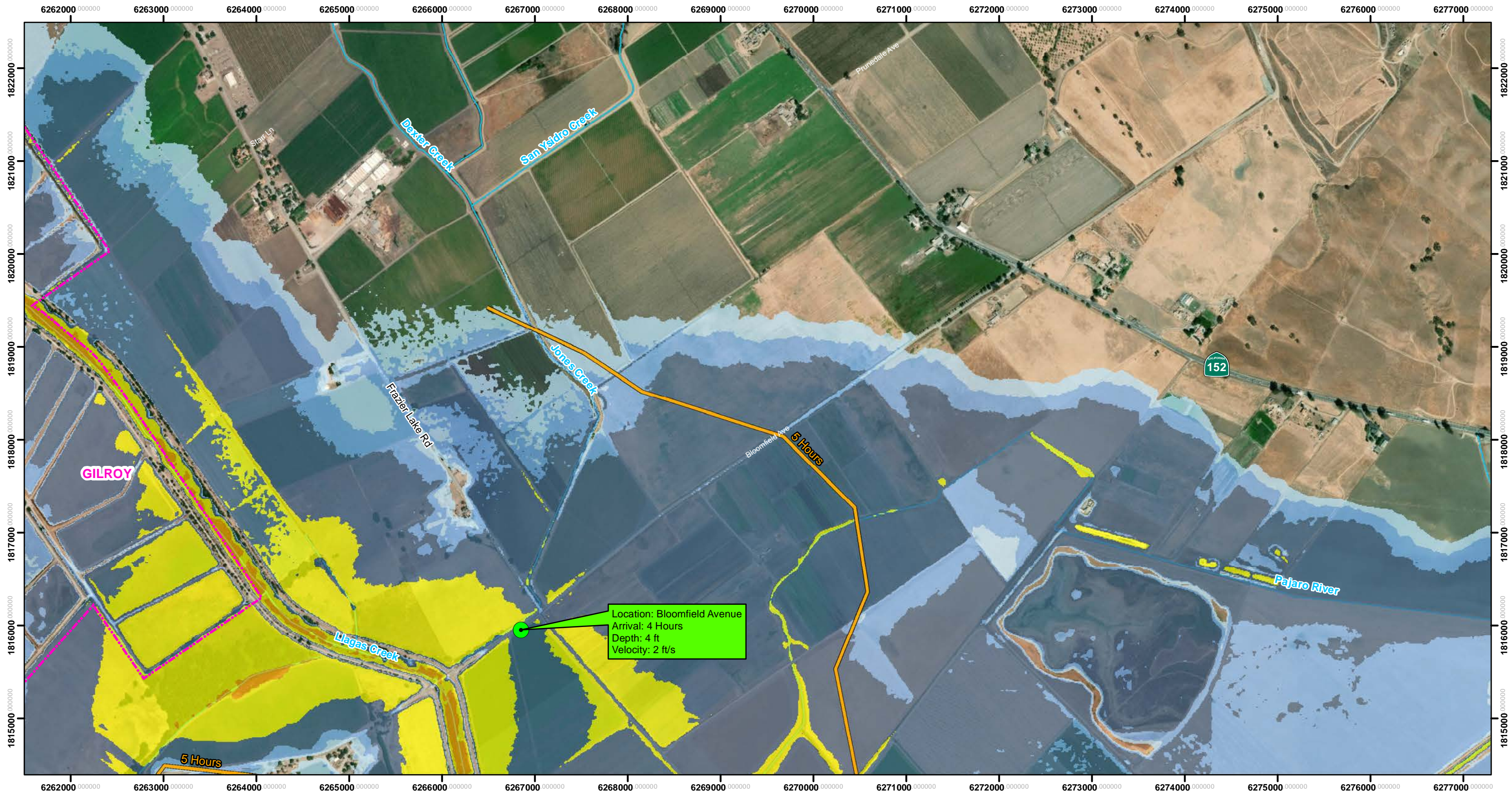
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Flood Wave Arrival Time

Road Callouts

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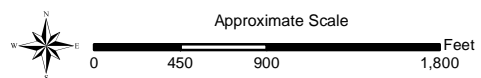
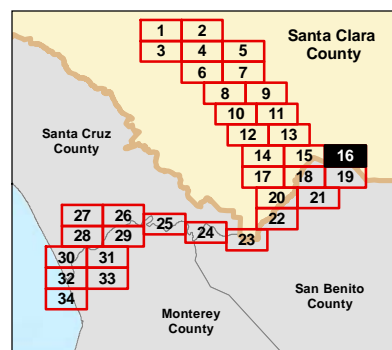
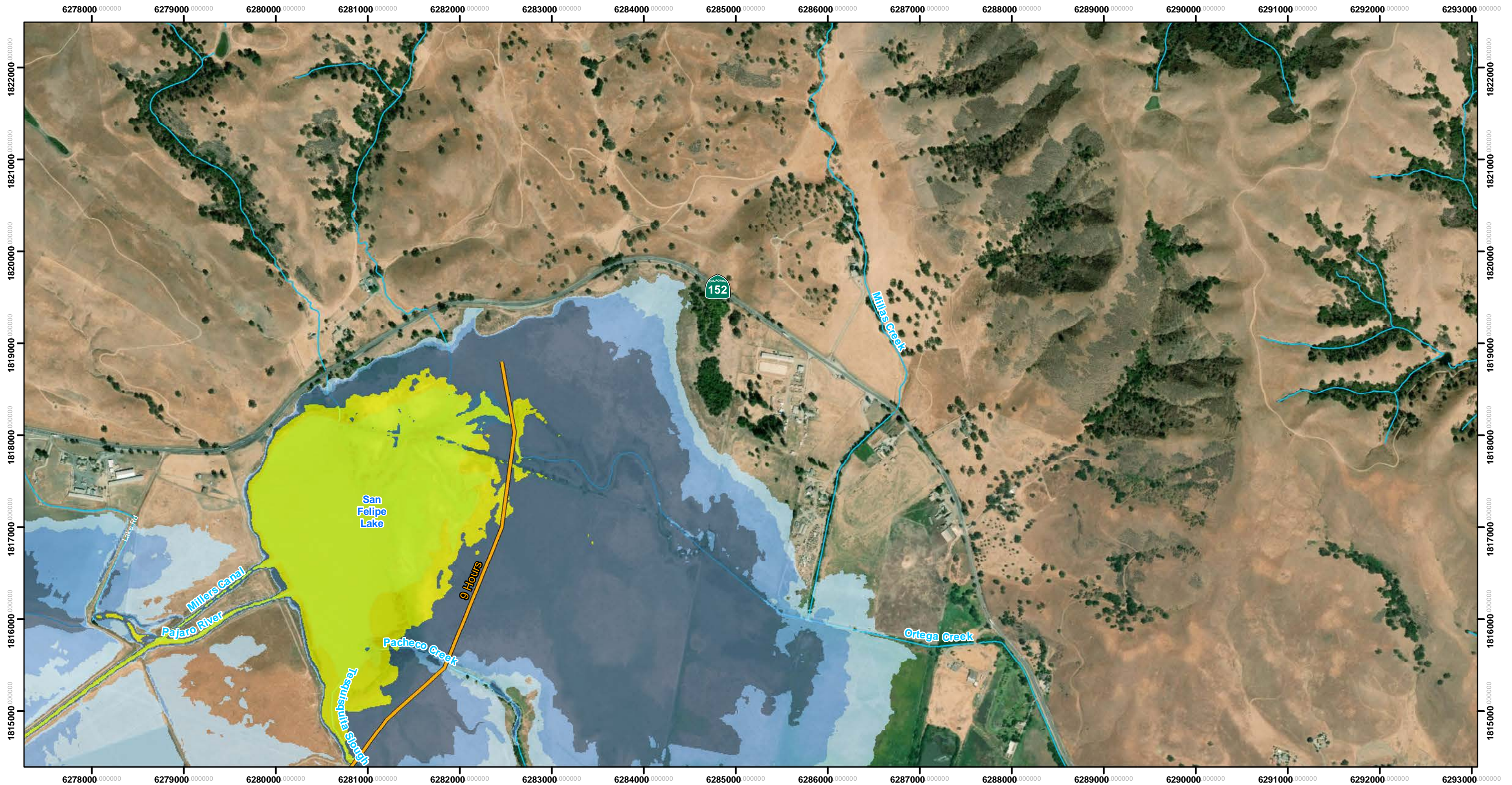
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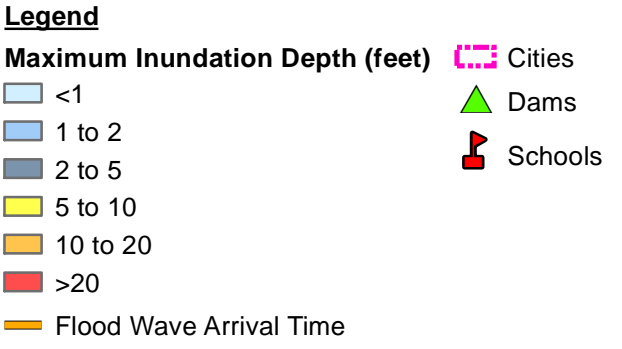
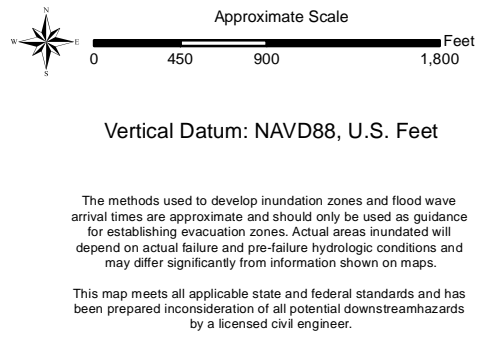
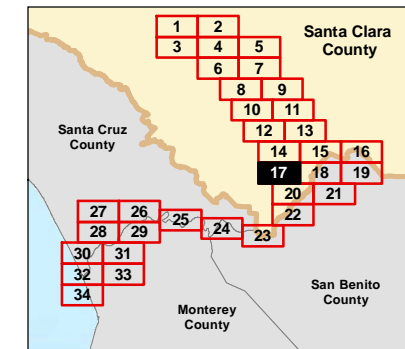
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Sheet 17 of 34

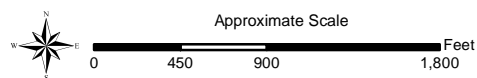
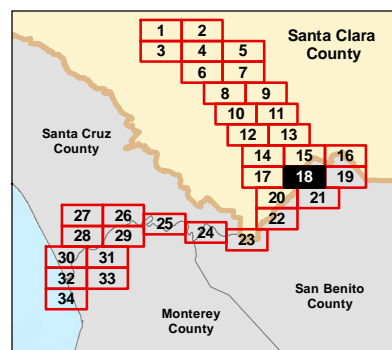
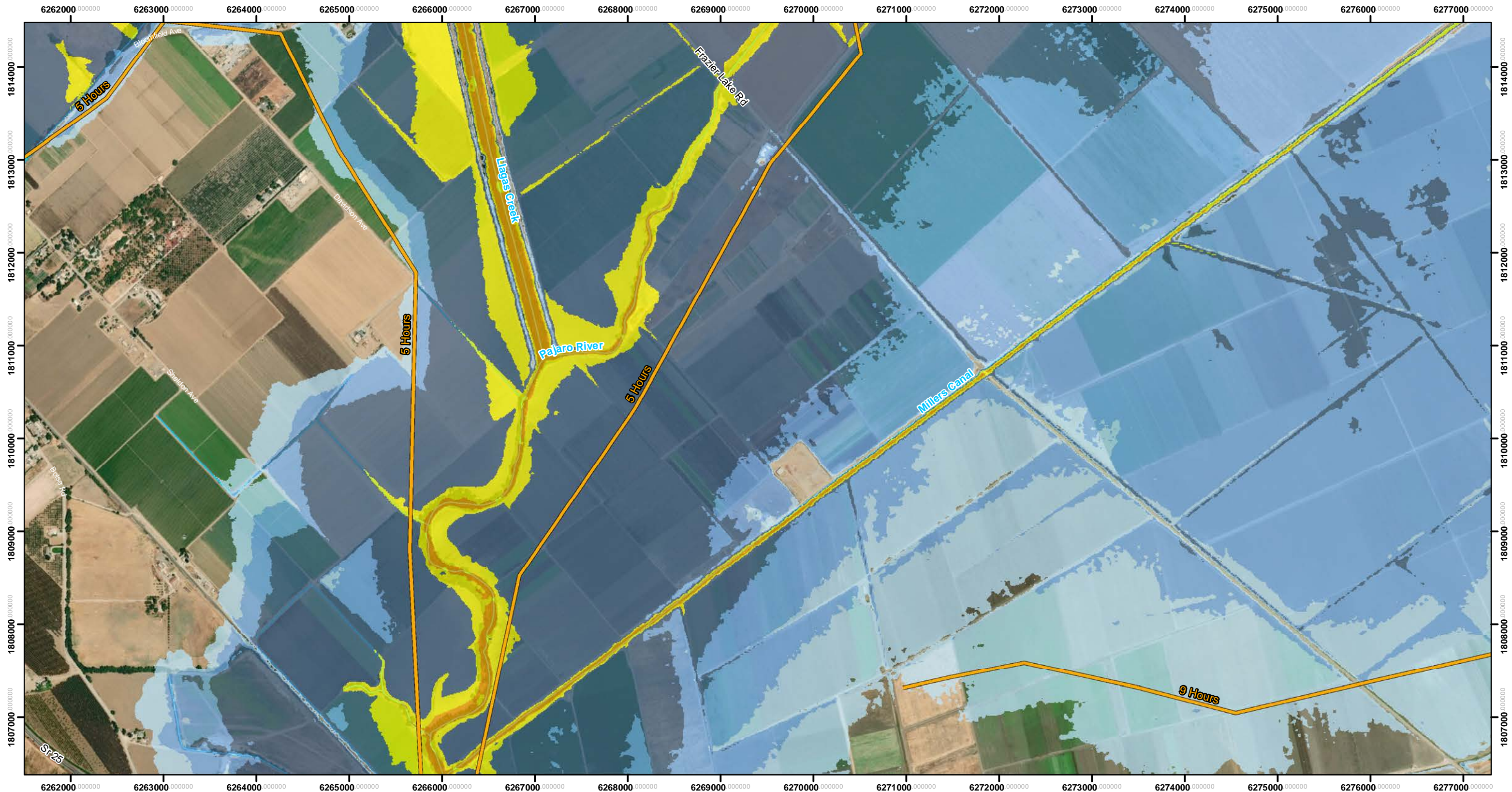
1 in = 1,000 ft

Dam Owner:
Santa Clara Valley Water District
5750 Almaden Exp
San Jose CA 95118

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August 2019

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Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation zones and flood wave arrival times are approximate and should only be used as guidance for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.

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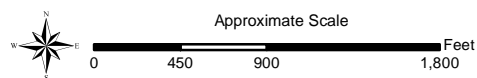
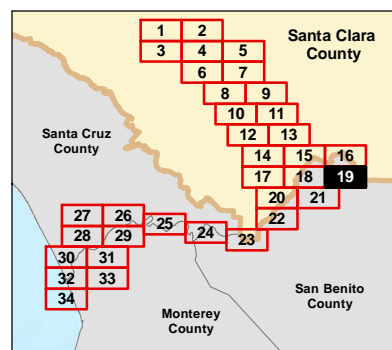
Legend

- Maximum Inundation Depth (feet)
 - <1
 - 1 to 2
 - 2 to 5
 - 5 to 10
 - 10 to 20
 - >20
- Cities
- Flood Wave Arrival Time

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 18 of 34
 1 in = 1,000 ft
 Dam Owner:
 Santa Clara Valley Water District
 5750 Almaden Exp
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Legend

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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 19 of 34

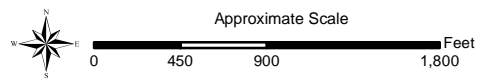
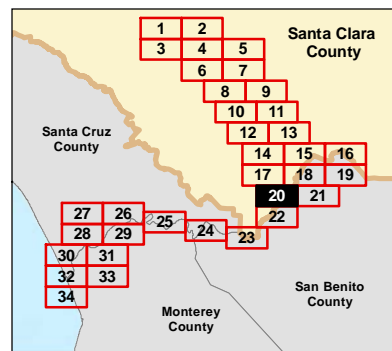
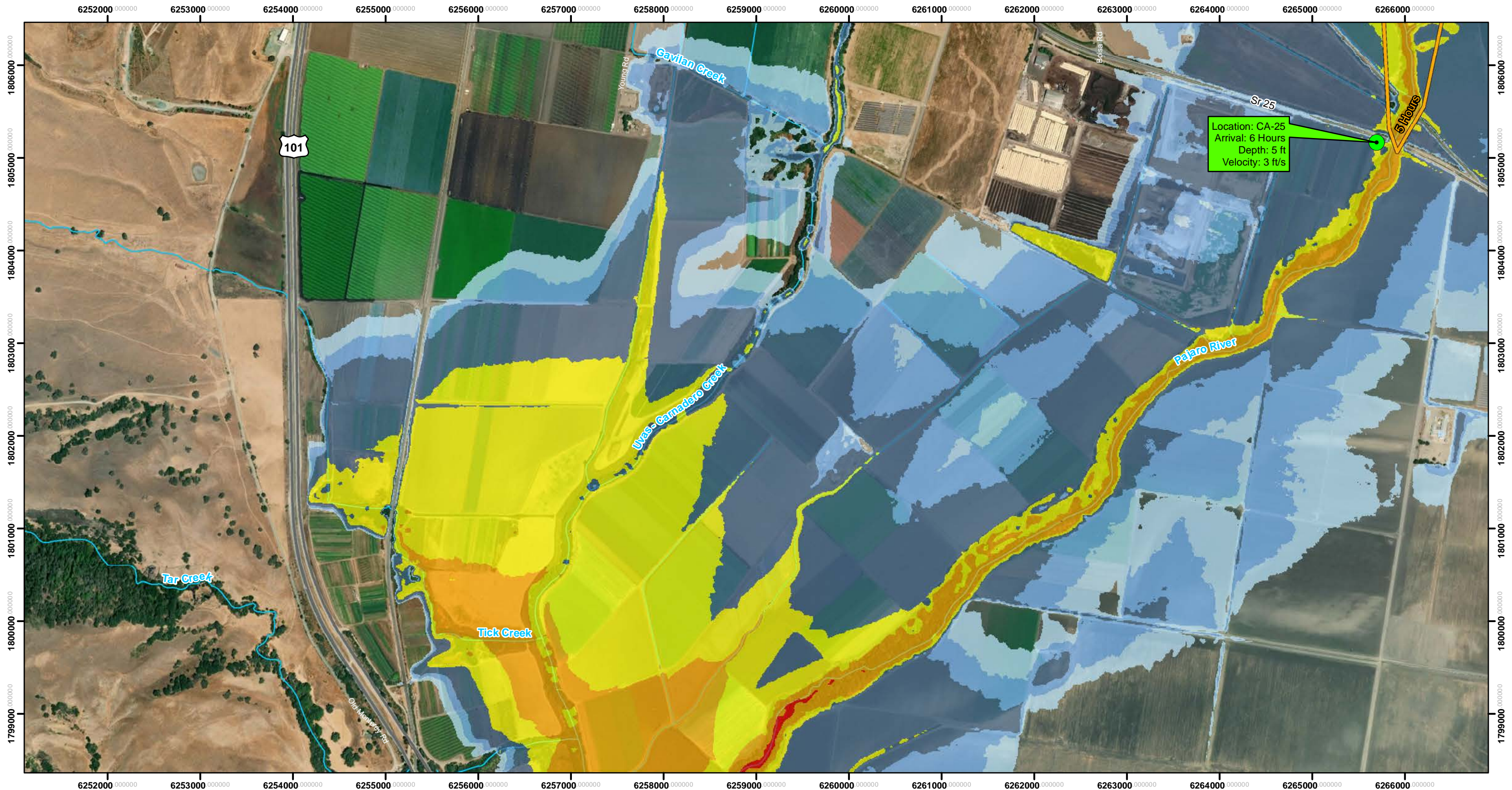
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Legend

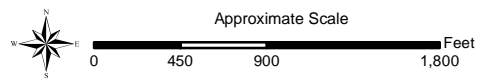
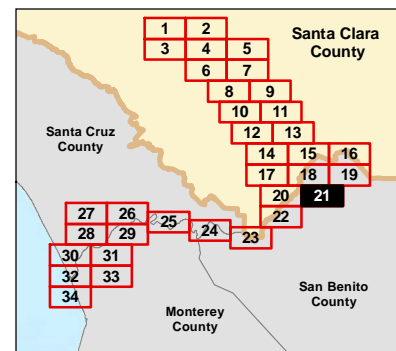
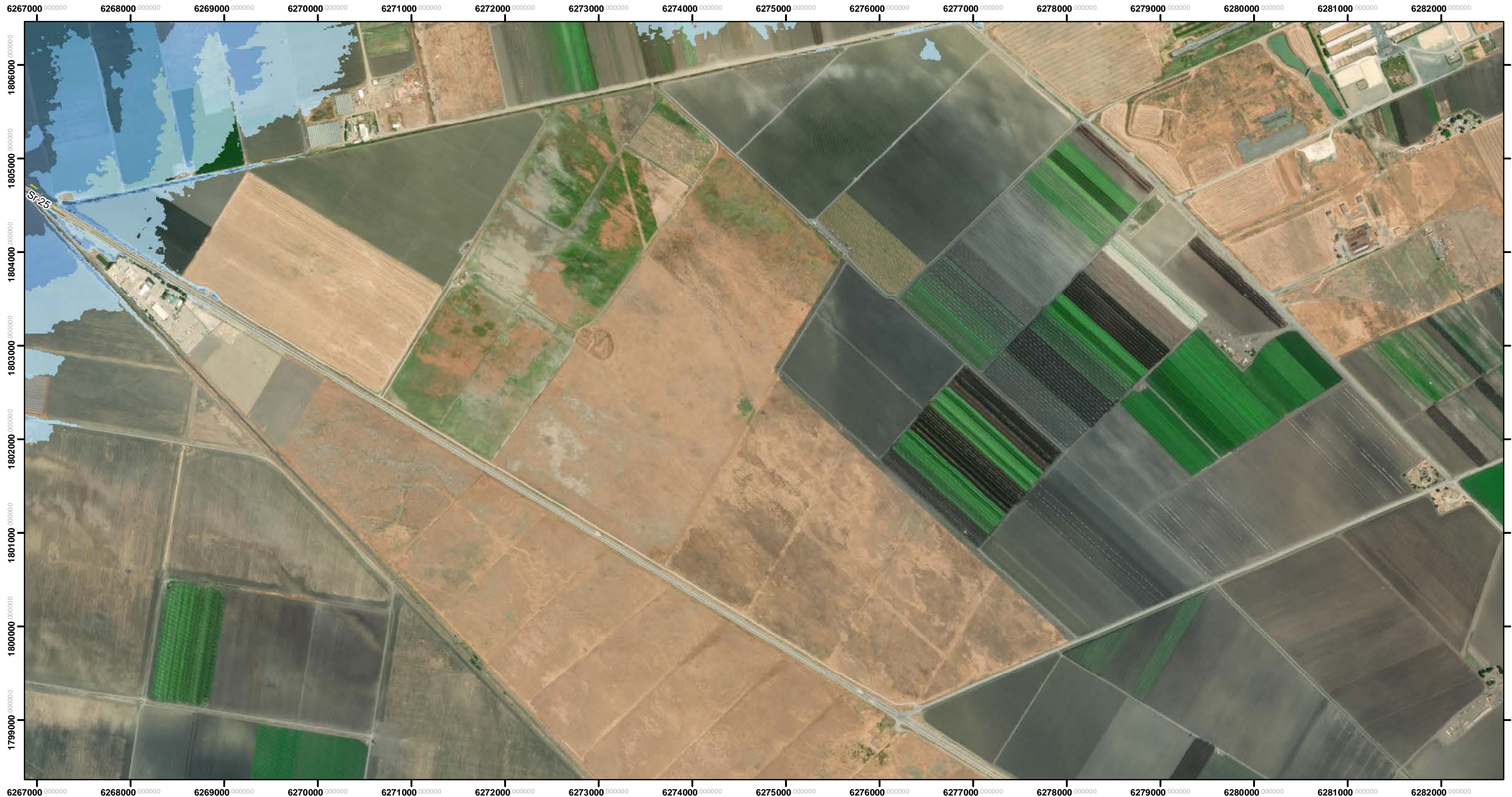
Maximum Inundation Depth (feet) Cities

- <1
- 1 to 2
- 2 to 5
- 5 to 10
- 10 to 20
- >20
- Flood Wave Arrival Time
- Road Callouts

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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 20 of 34
 1 in = 1,000 ft
 Dam Owner:
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Vertical Datum: NAVD88, U.S. Feet

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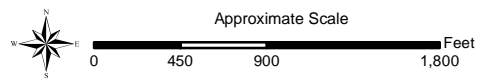
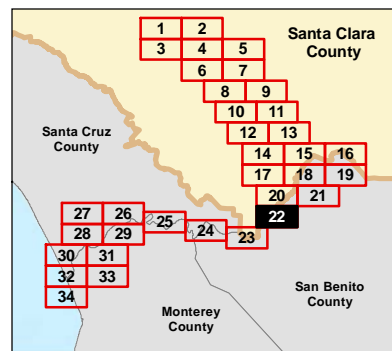
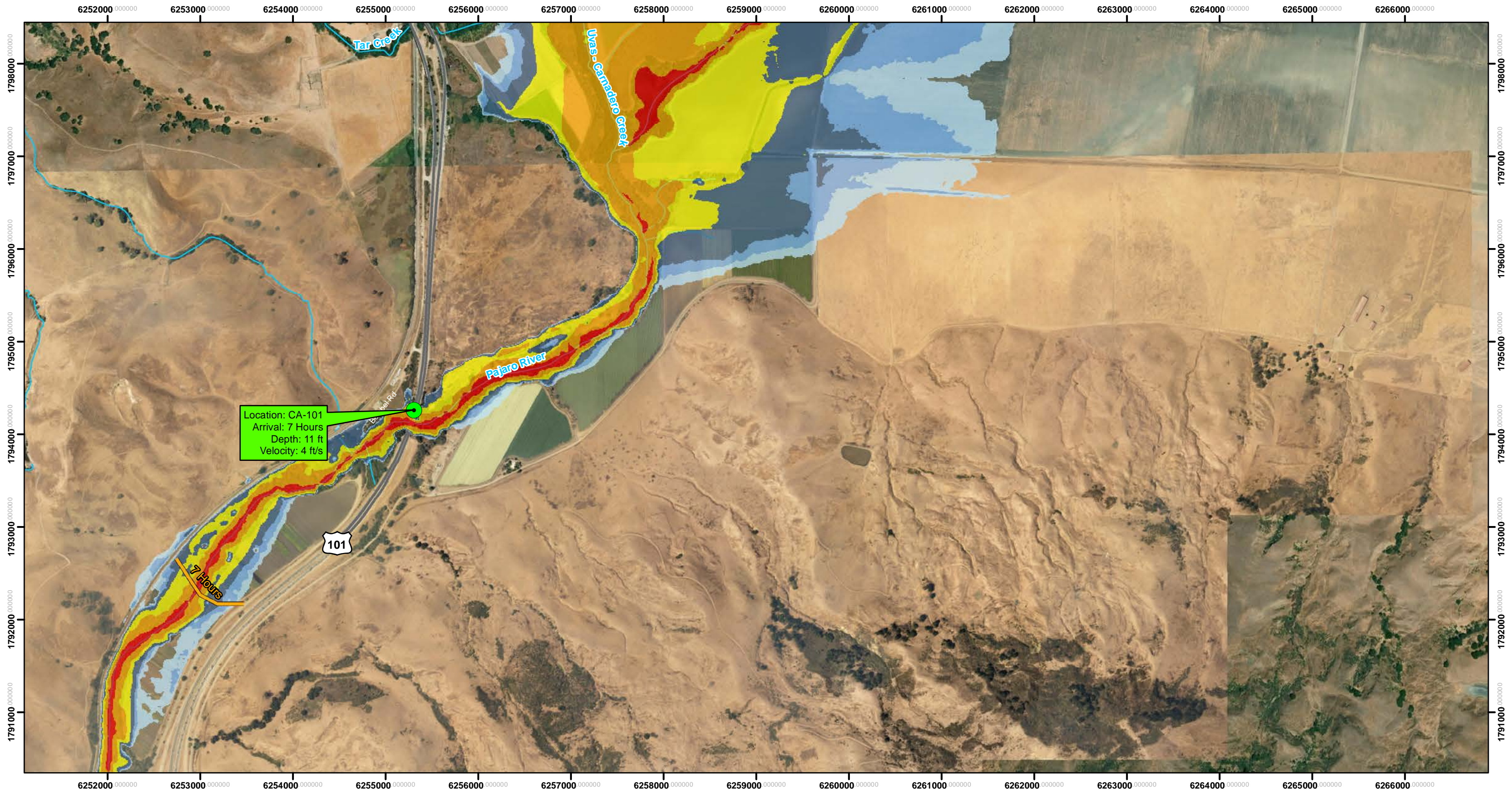
Legend

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- <1
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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 21 of 34
 1 in = 1,000 ft
 Dam Owner:
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Legend

Maximum Inundation Depth (feet) Cities

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- Flood Wave Arrival Time
- Road Callouts

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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 22 of 34

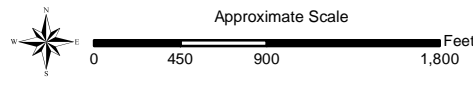
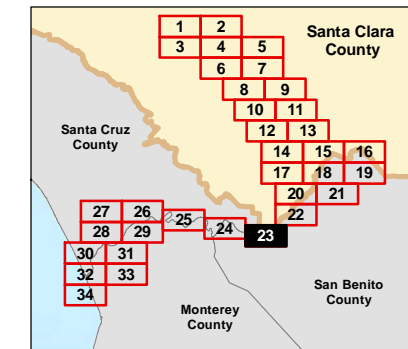
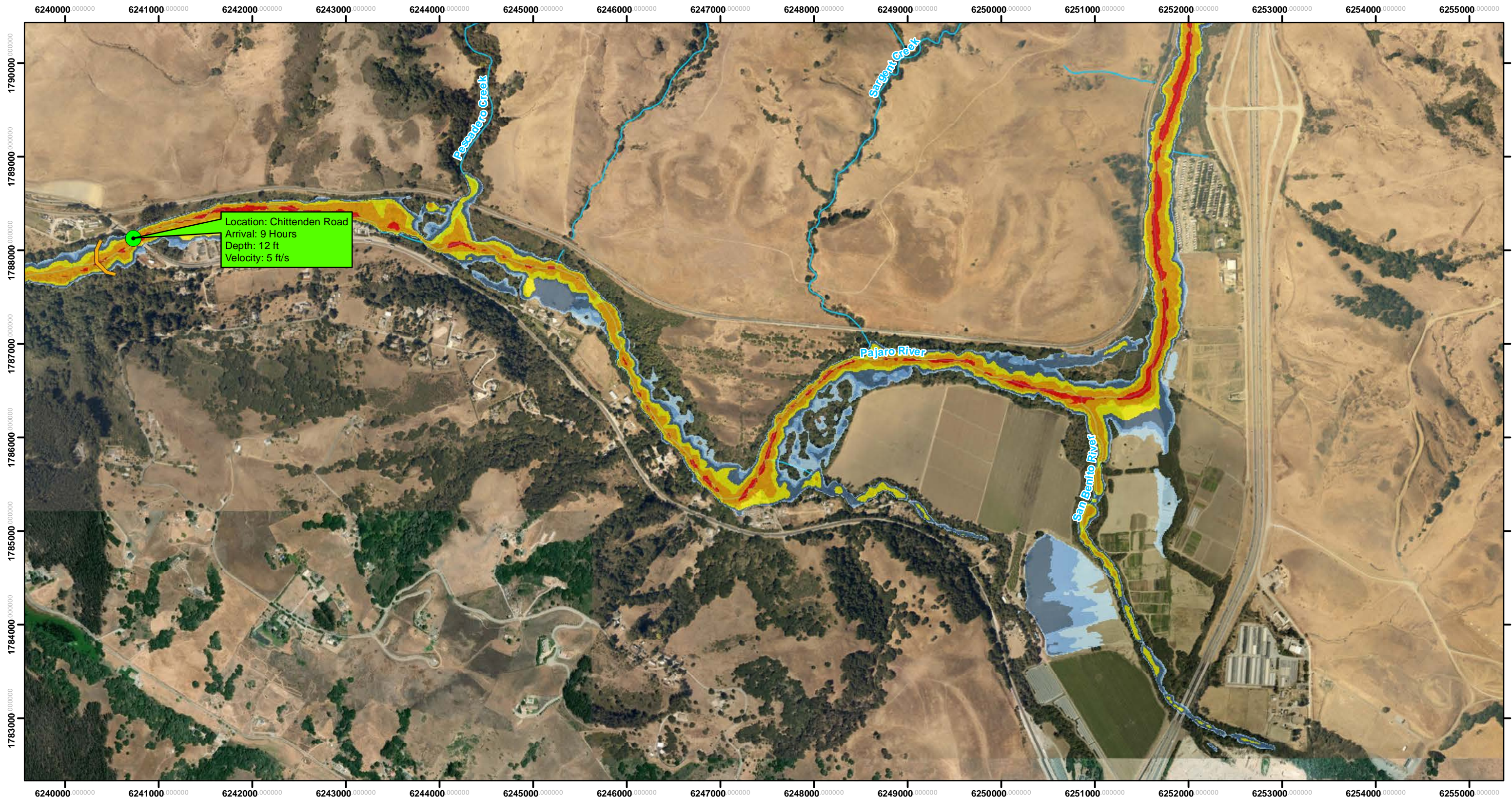
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Vertical Datum: NAVD88, U.S. Feet

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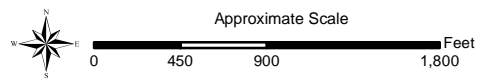
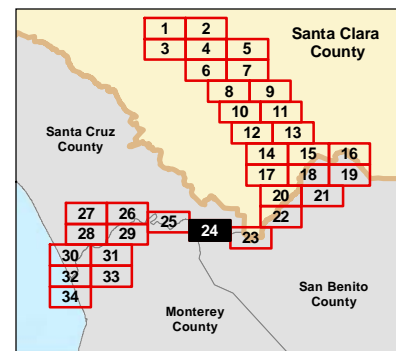
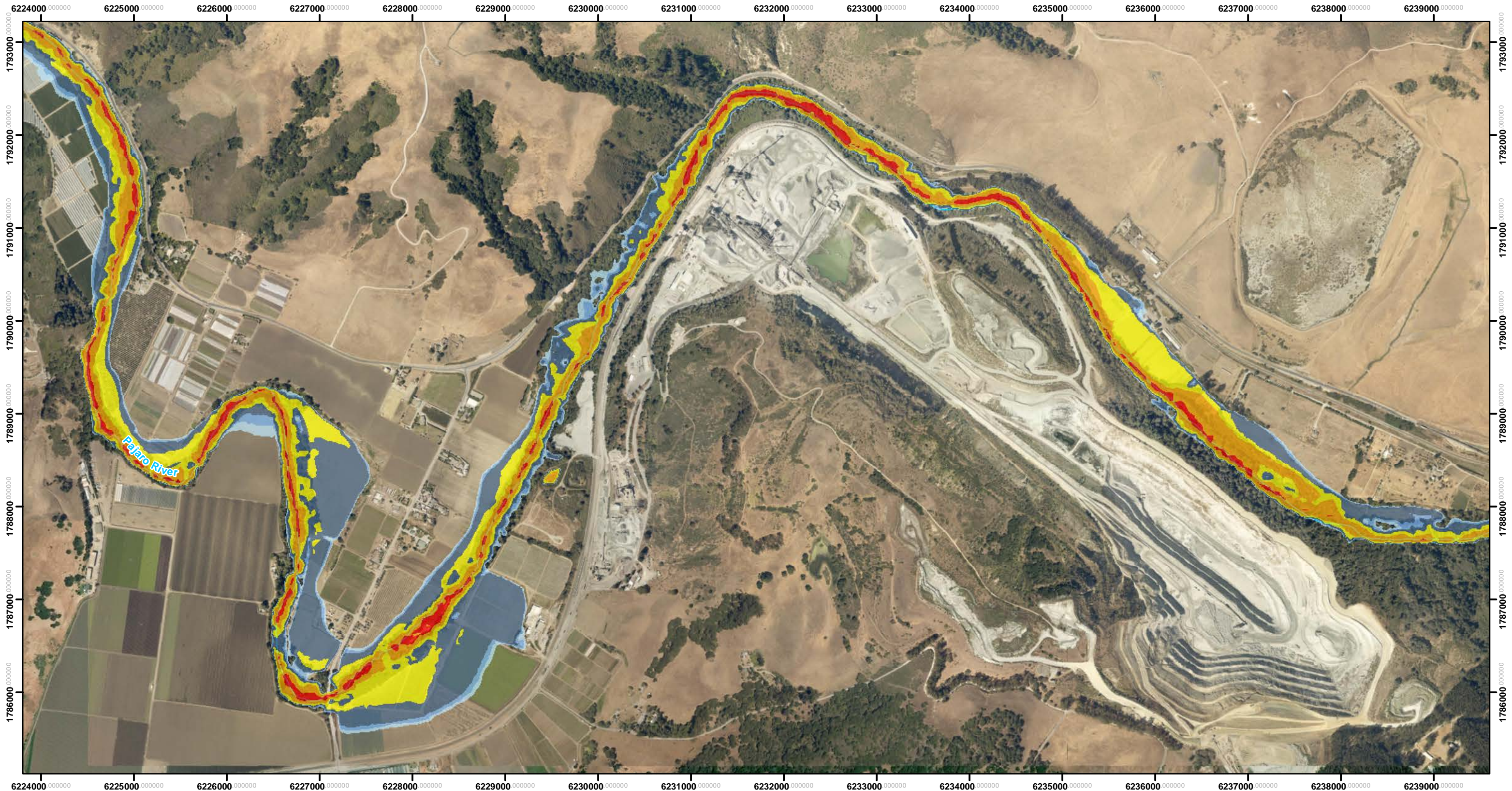
Legend
Maximum Inundation Depth (feet) Cities

- <1
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- 2 to 5
- 5 to 10
- 10 to 20
- >20
- Flood Wave Arrival Time
- Road Callouts

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 23 of 34
 1 in = 1,000 ft
 Dam Owner:
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Vertical Datum: NAVD88, U.S. Feet

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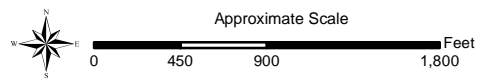
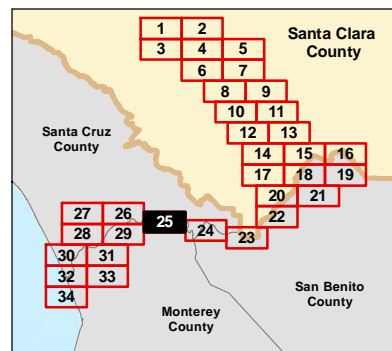
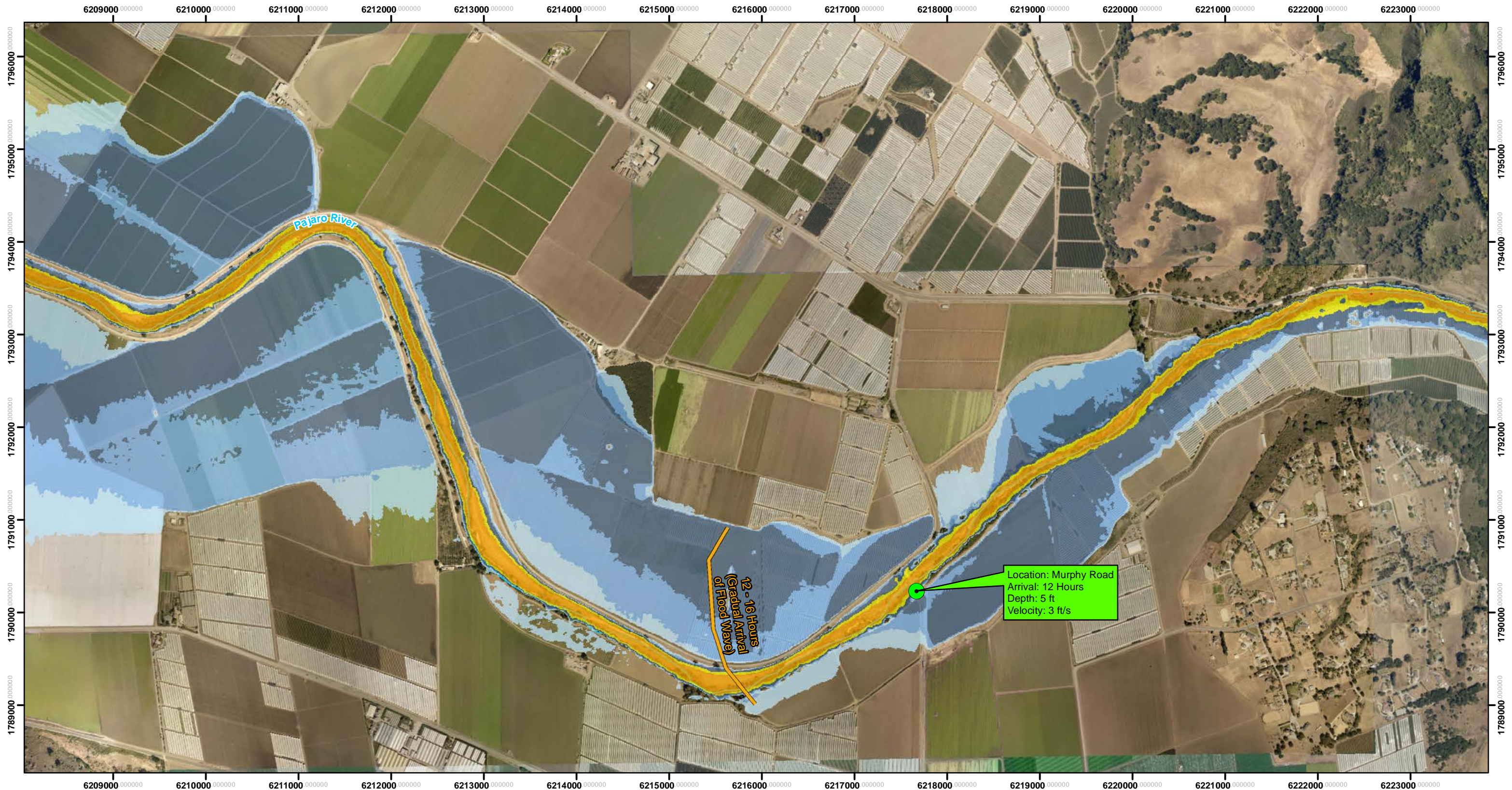
Legend

- Maximum Inundation Depth (feet)**
- <1
 - 1 to 2
 - 2 to 5
 - 5 to 10
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 - >20
- Cities

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 24 of 34
 1 in = 1,000 ft
 Dam Owner:
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Vertical Datum: NAVD88, U.S. Feet

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Legend

Maximum Inundation Depth (feet) Cities

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- Flood Wave Arrival Time
- Road Callouts

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 25 of 34

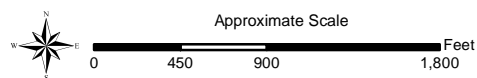
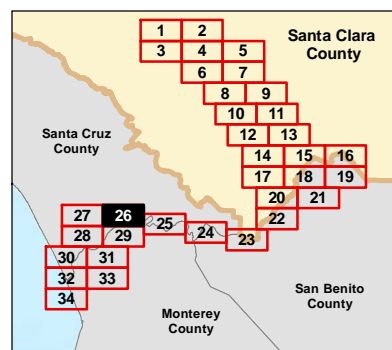
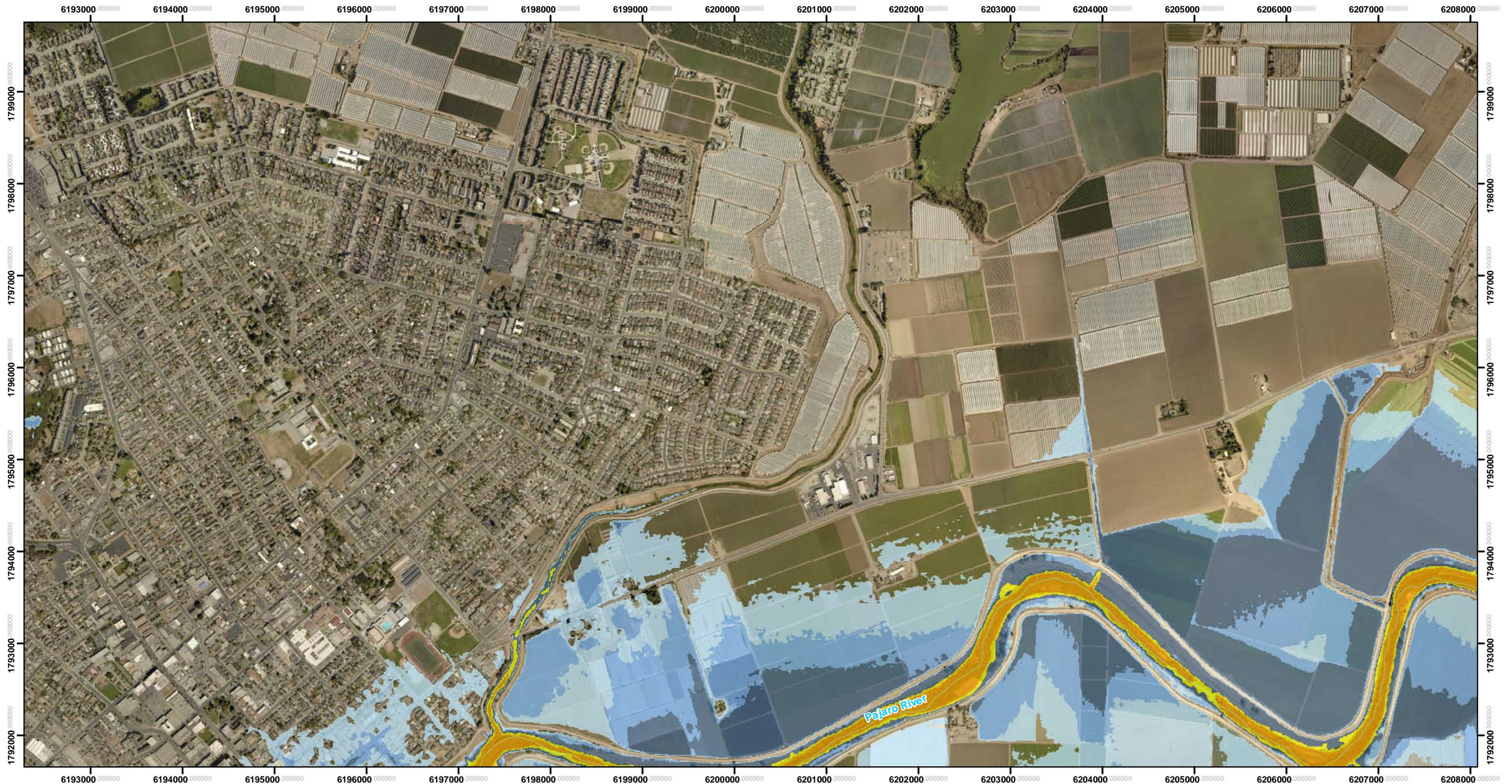
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Legend

Maximum Inundation Depth (feet) Cities

- <1
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Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 26 of 34

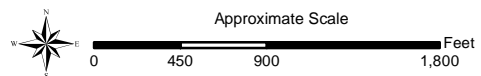
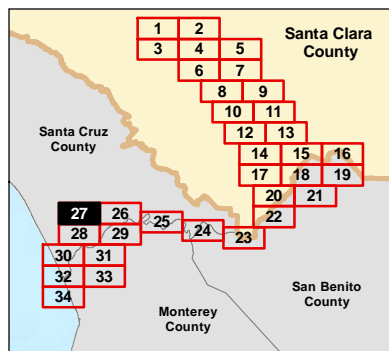
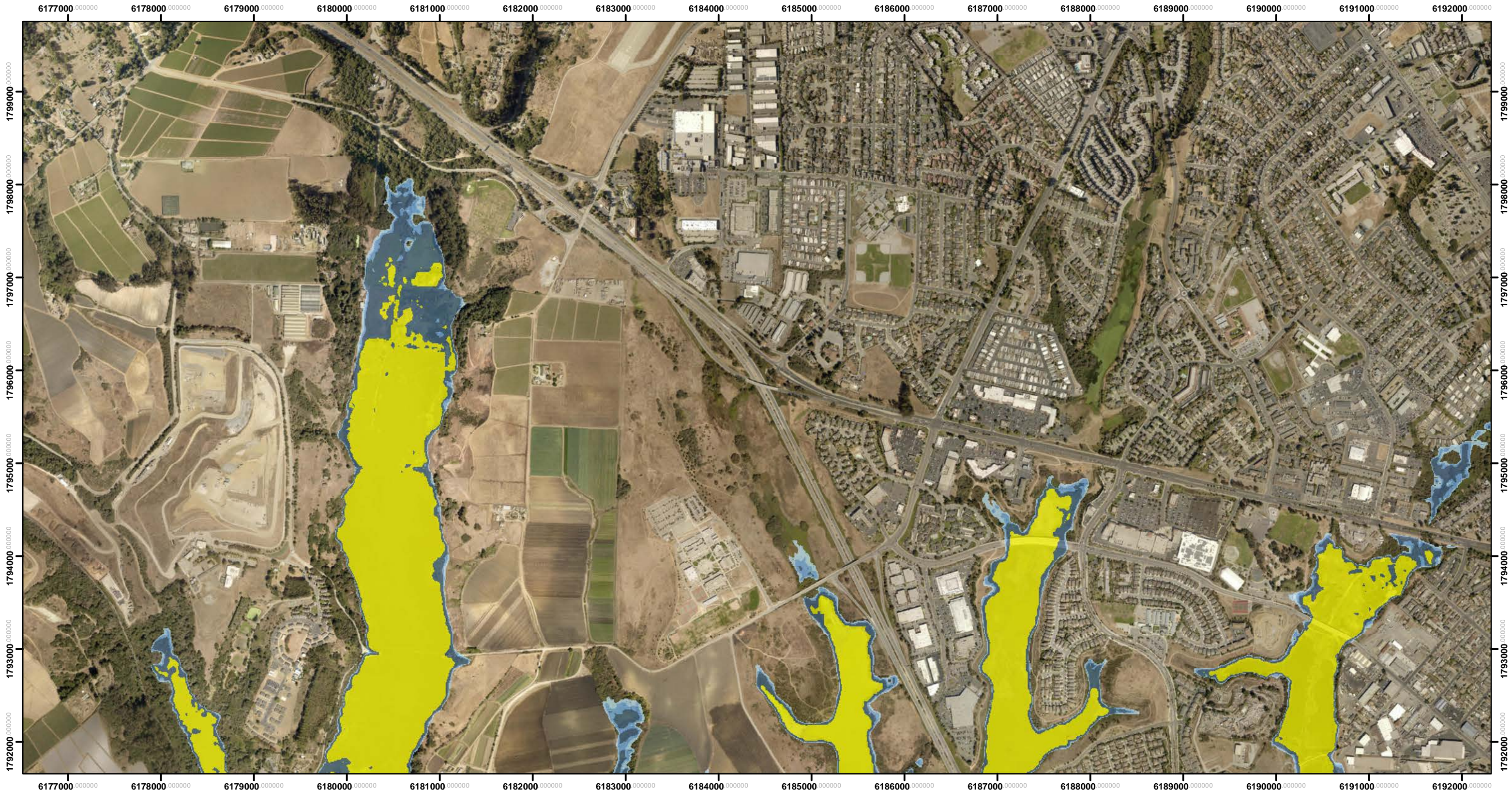
1 in = 1,000 ft

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Vertical Datum: NAVD88, U.S. Feet

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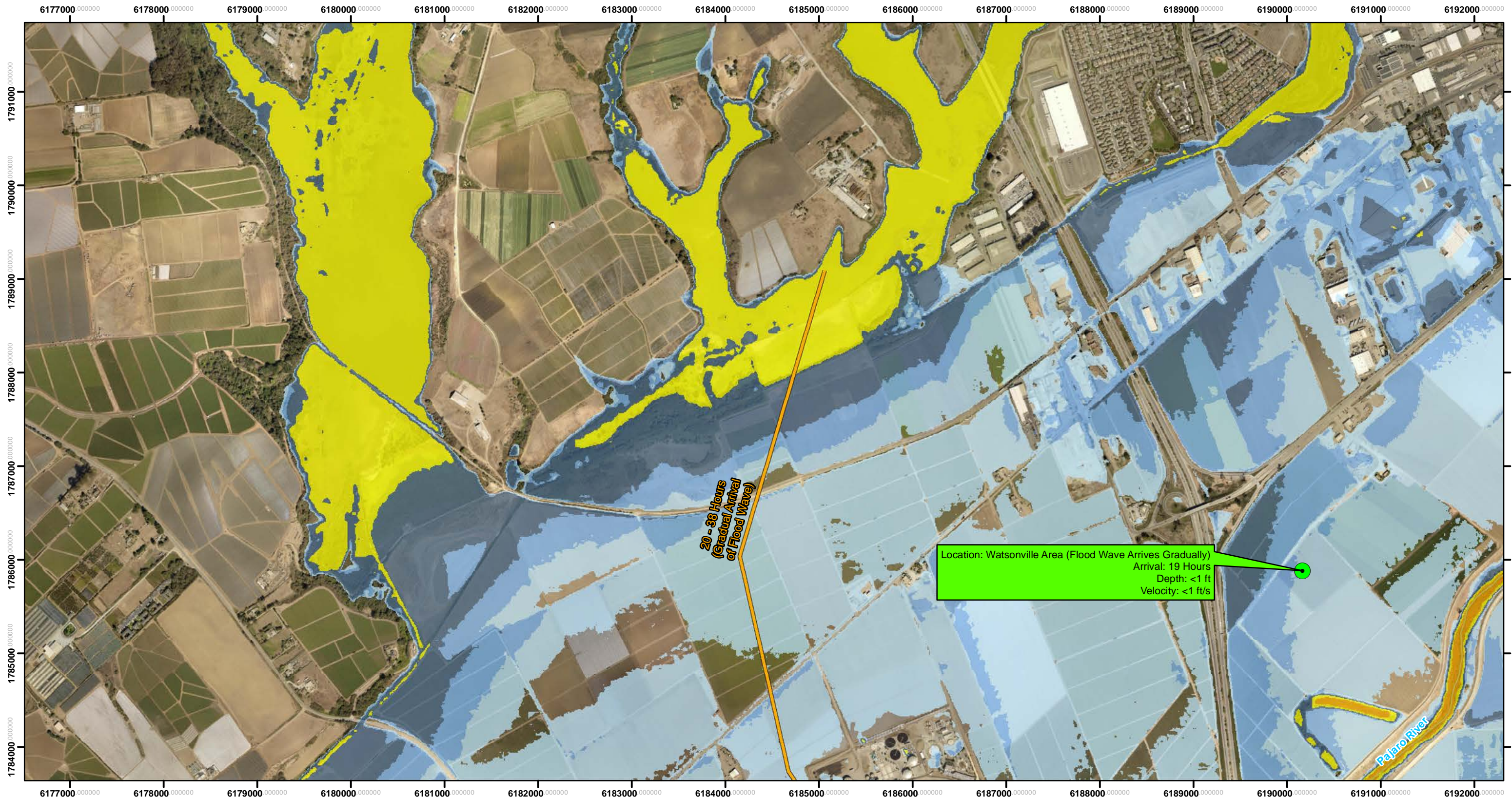
Legend

- Maximum Inundation Depth (feet)**
- <1
 - 1 to 2
 - 2 to 5
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- Cities**

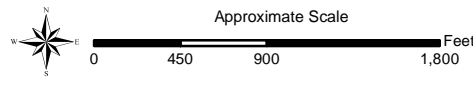
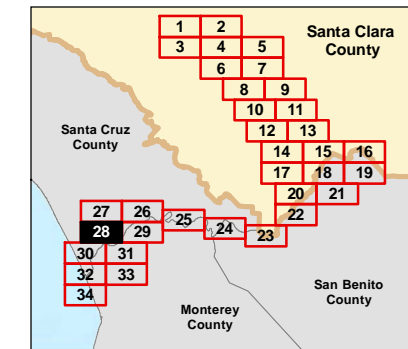
Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 27 of 34
 1 in = 1,000 ft
 Dam Owner:
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Location: Watsonville Area (Flood Wave Arrives Gradually)
 Arrival: 19 Hours
 Depth: <1 ft
 Velocity: <1 ft/s



Vertical Datum: NAVD88, U.S. Feet

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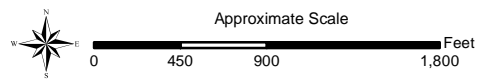
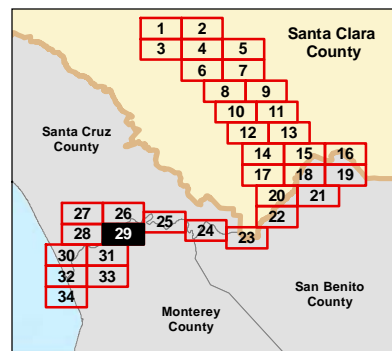
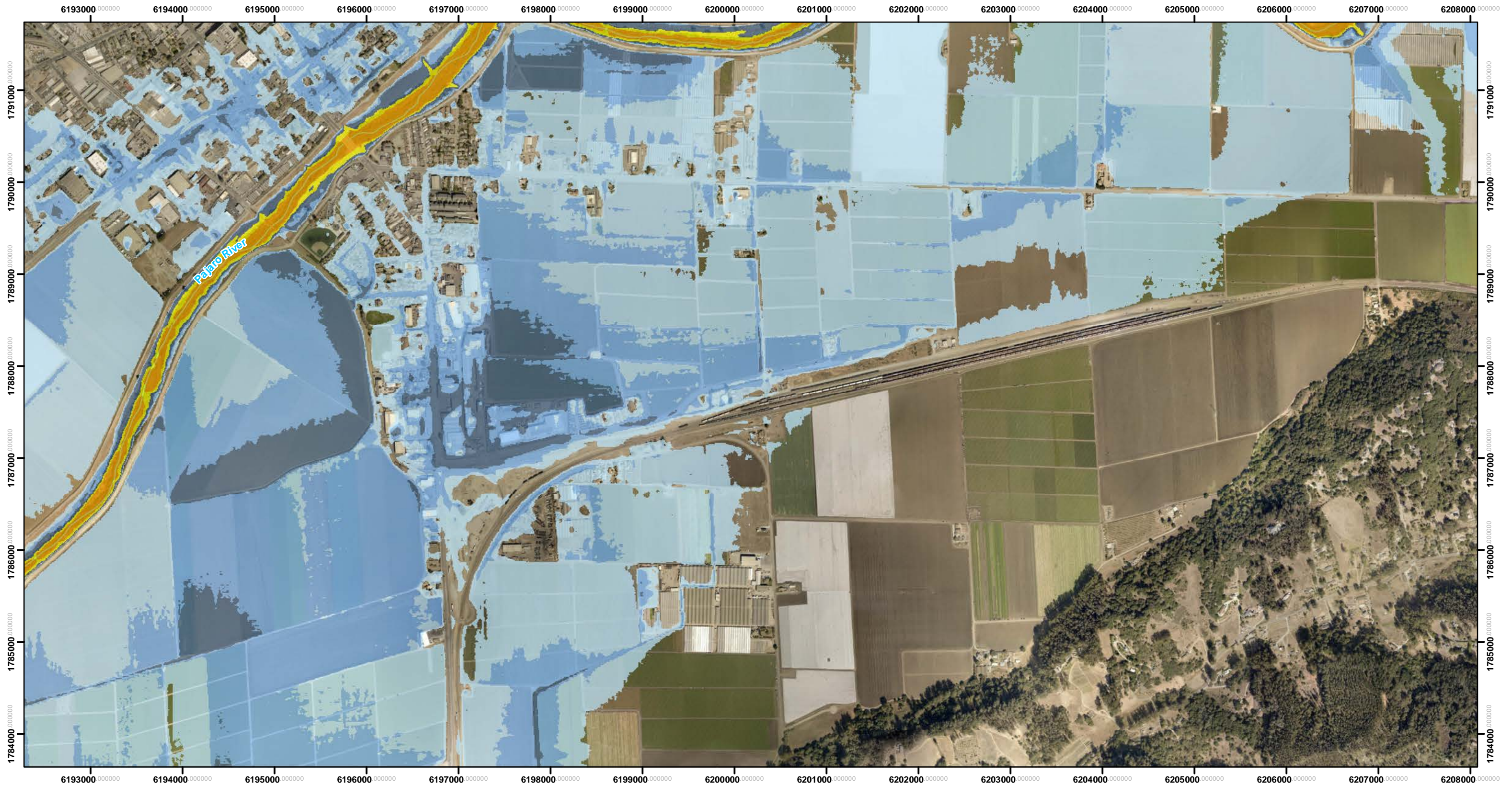
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- Legend**
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 - 5 to 10
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 - >20
 - Cities
 - Flood Wave Arrival Time
 - Road Callouts

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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 28 of 34
 1 in = 1,000 ft
 Dam Owner:
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Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 29 of 34

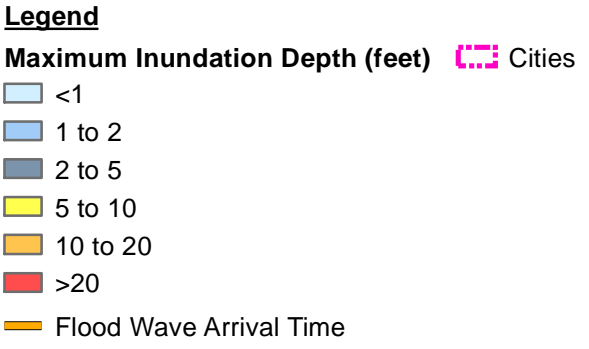
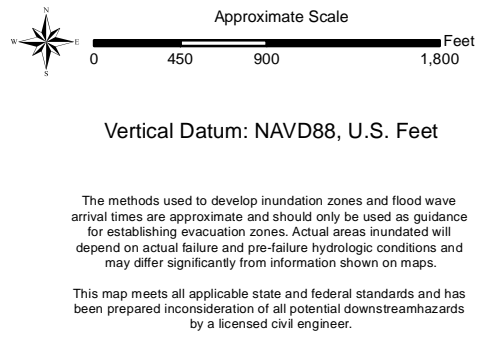
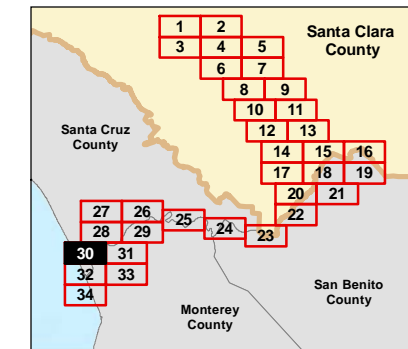
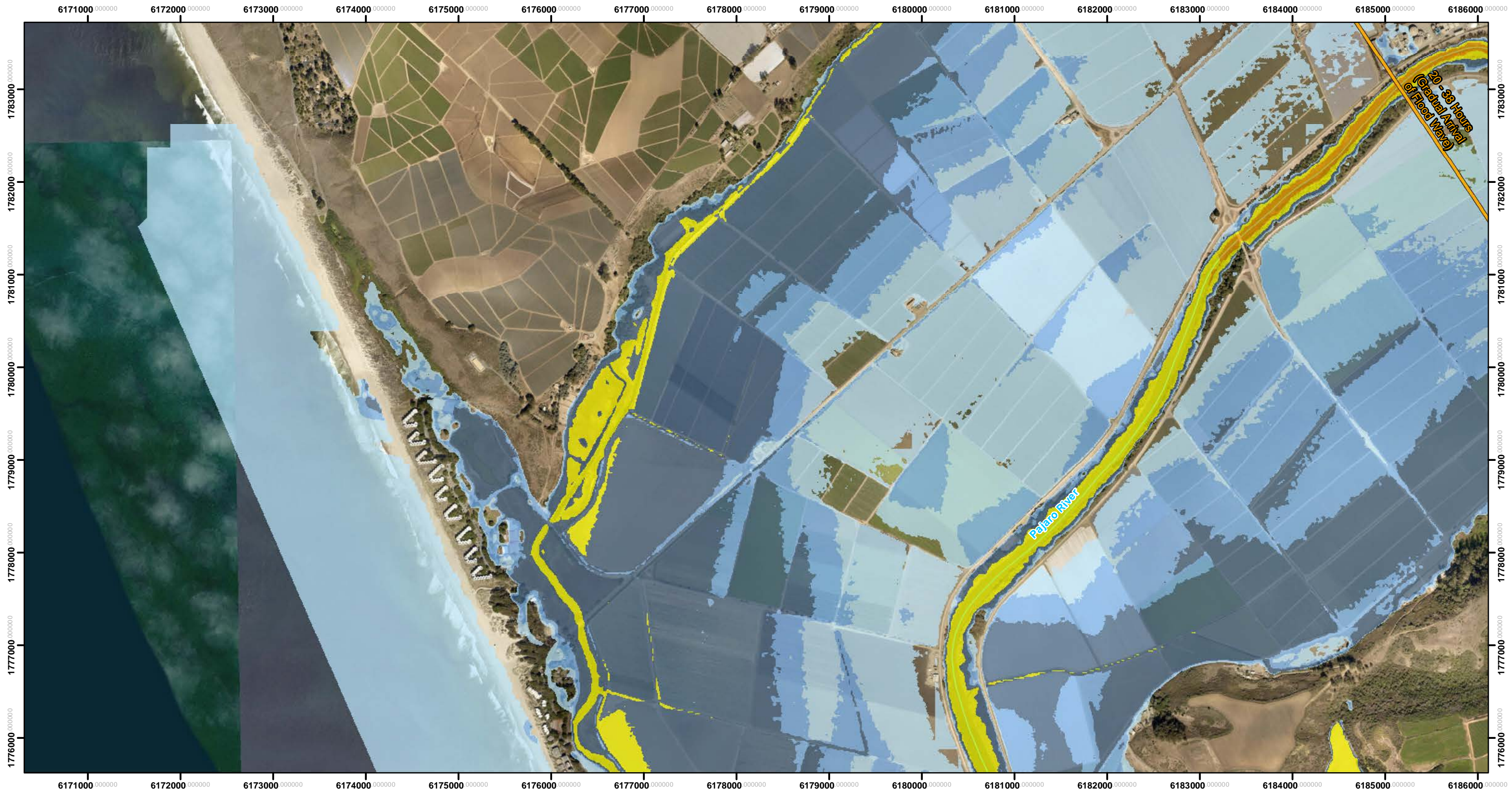
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Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 30 of 34

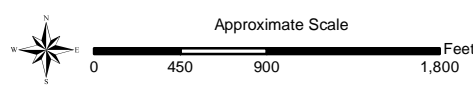
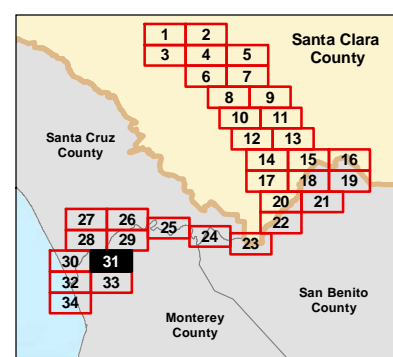
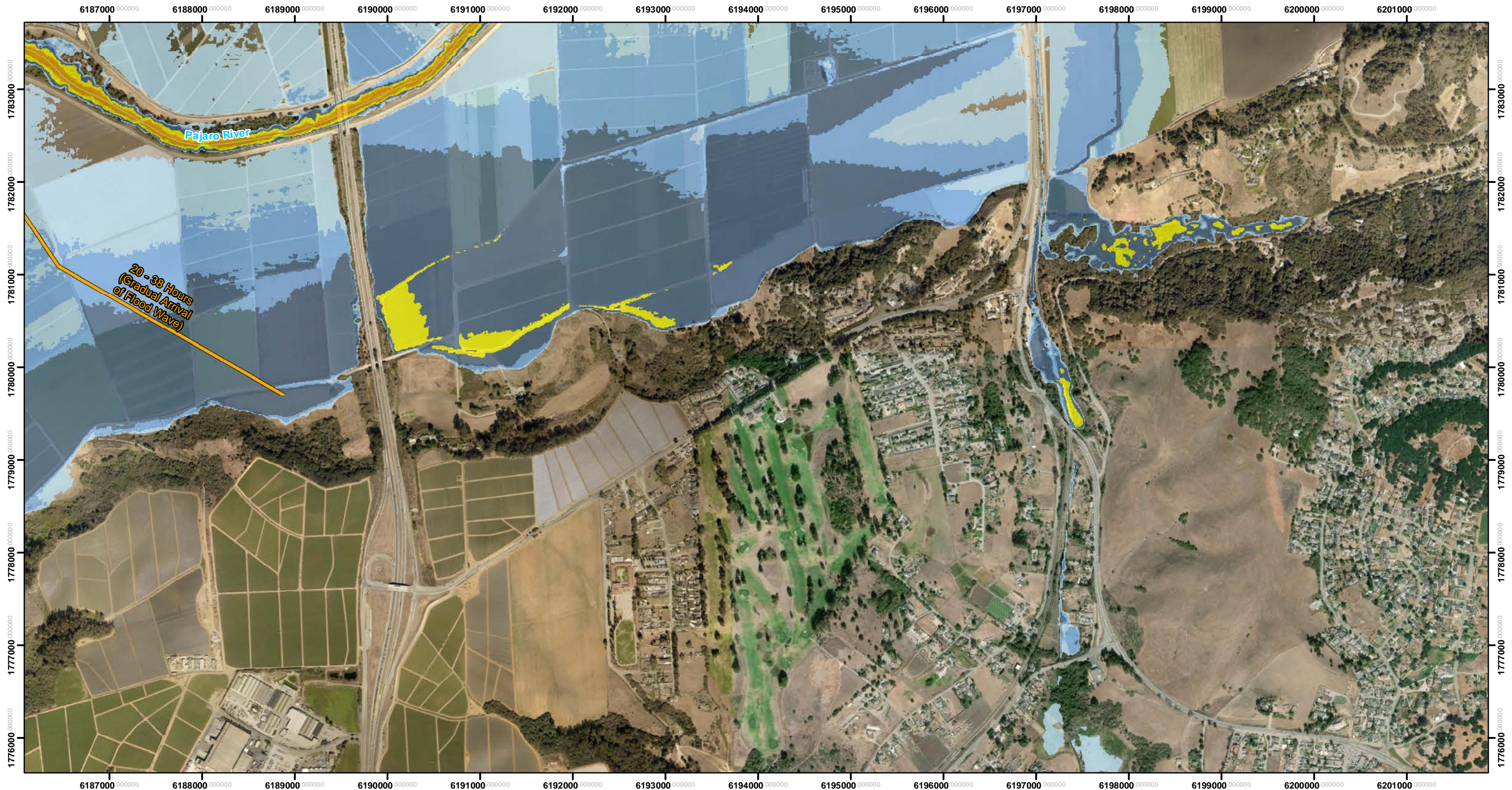
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Vertical Datum: NAVD88, U.S. Feet

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Legend

Maximum Inundation Depth (feet)

- <1
- 1 to 2
- 2 to 5
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Flood Wave Arrival Time

Cities

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**

Federal Dam ID: CA00806 State Dam ID: 72-011

Sheet 31 of 34

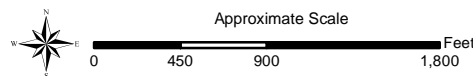
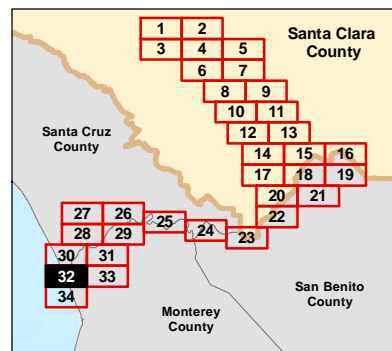
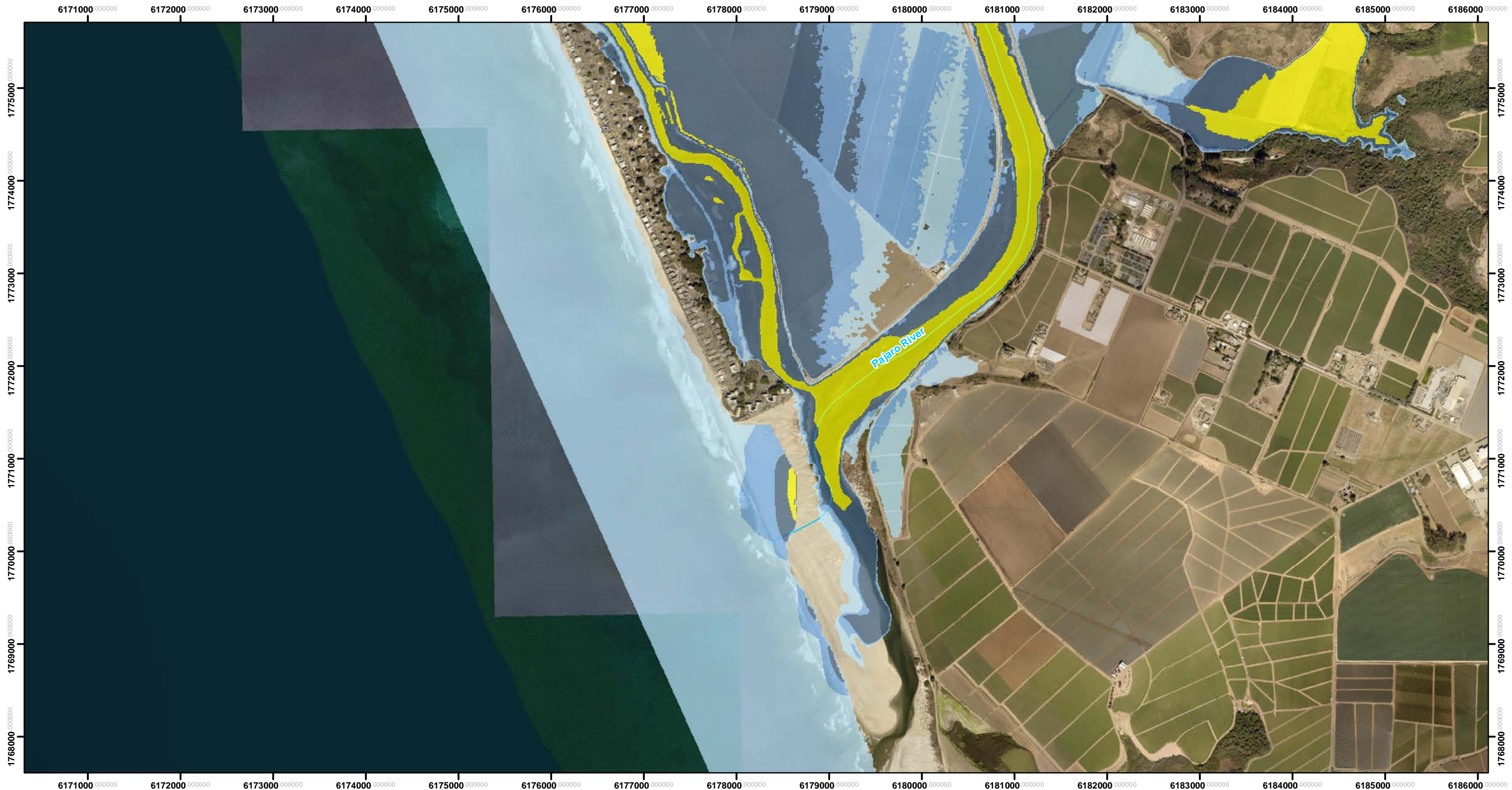
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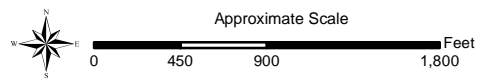
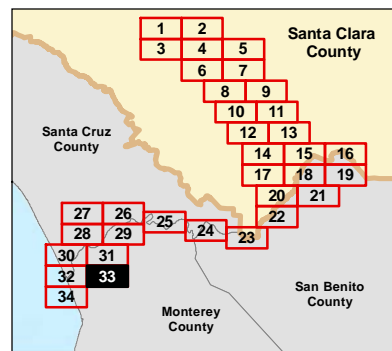
Legend

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- Cities

Inflow Design Flood (IDF) failure assumes a dam failure at the highest calculated reservoir elevation due to a probable maximum flood



Inundation Map for the Hypothetical Inflow Design Flood Failure of **Elmer J Chesbro Dam**
 Federal Dam ID: CA00806 State Dam ID: 72-011
Sheet 32 of 34
 1 in = 1,000 ft
 Dam Owner:
 Santa Clara Valley Water District
 5750 Almaden Exp
 San Jose CA 95118
 Inundation Analysis and maps created by SCVWD
 August 2019
 © 2019 Santa Clara Valley Water District



Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation zones and flood wave arrival times are approximate and should only be used as guidance for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.

This map meets all applicable state and federal standards and has been prepared in consideration of all potential downstream hazards by a licensed civil engineer.

Legend

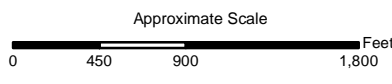
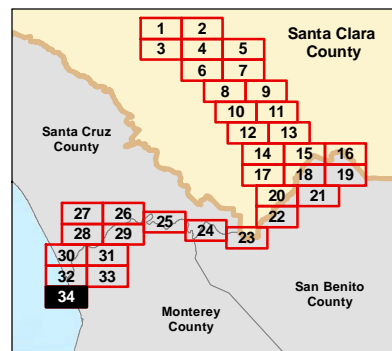
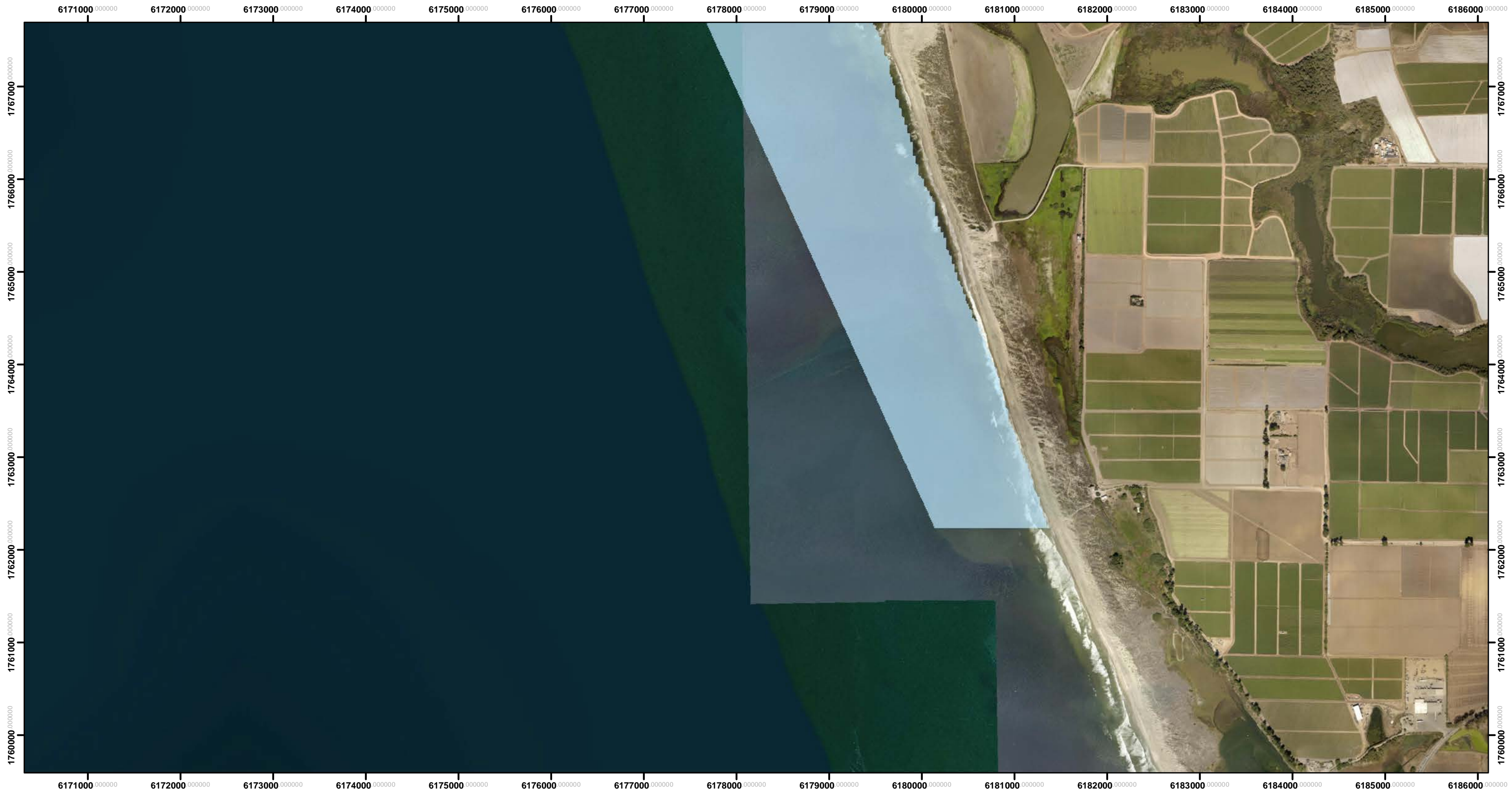
Maximum Inundation Depth (feet) Cities

- <1
- 1 to 2
- 2 to 5
- 5 to 10
- 10 to 20
- >20

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