Inundation Map for the Hypothetical Fair Weather Failure of Calero Auxiliary Dam

Federal Dam ID: CA00294     State Dam ID: 72-009
Sheet 1 of 20

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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Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation zones and flood wave arrival times do not explicitly consider pre-failure spillway conditions. Actual areas inundated will depend on actual pre-failure spillway 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)

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

Cities
Dams

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

Approximate Scale

0 1 2 3 4 5 6 7 8 9 10 Miles
0 528 1,056 2,016 4,032 Feet

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

© 2019 Santa Clara Valley Water District
Road Callouts
Schools

Legend

Maximum Inundation Depth (feet)

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

Flood Wave Arrival Time

Cities
Schools
Fire Stations
Road Callouts

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.
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Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

**Legend**

- C: Cities
- D: Dams
- S: Schools
- R: Road Callouts

**Maximum Inundation Depth (feet)**

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

**Flood Wave Arrival Time**

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

**Vertical Datum:** NAVD88, U.S. Feet

**Note:** This map and the data used to create the map were developed and compiled to be used in predicting flood inundation. Actual flood inundation will depend on actual future and prior weather conditions, including residual conditions from the last flood event. The map should not be used for engineering or regulatory purposes without verification. The map is intended for general information only. The risk of flooding should be independently verified by a professional civil engineer.
Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.
Inundation Analysis and maps

Federal Dam ID: CA00294
State Dam ID: 72-009

City
Schools
Fire Stations

Legend

Maximum Inundation Depth (feet)

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

Inundation Map for the Hypothetical Fair Weather Failure of Calero Auxiliary Dam

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow

Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation maps and flood wave values are approximate and not intended to be used in evaluating recommendations. Actual values may vary depending on actual failure and pre-failure hydrologic conditions.

This map meets all applicable state and federal standards and has been prepared in conformance with the applicable standards and regulations by technical staff engineers.
Legend
Maximum Inundation Depth (feet)
- ≤1
- 1 to 2
- 2 to 5
- 5 to 10
- 10 to 20
- >20

Flood Wave Arrival Time

Cities
Schools
Fire Stations

Fair Weather (FW) failure of the critical
apportent structure (CAS) assumes failure
of the auxiliary dam at full capacity at the
spillway lip without any additional inflow.

The methods used to develop inundation maps and flood wave
arrival times are based on mathematical models and assumptions.

This map was prepared from available topographic information and
databases of Santa Clara Valley Water District and the City of San
Jose. San Jose and Santa Clara Valley Water District
 endeavored to make the best use of available
information, but cannot guarantee the accuracy or completeness
of the data. The accuracy and completeness of the data contained
within this map is subject to change, and may affect map
interpretation.

Inundation Map for the Hypothetical Fair Weather Failure of
Calero Auxiliary Dam
Federal Dam ID: CA00294
State Dam ID: 72-009
Sheet 9 of 20
1" = 1000 ft

Santa Clara Valley Water District
1800 North First Street
San Jose, CA 95118
(408) 376-5000
For more information, please call 1-800-SCVWD

August 2019
Map created by BLMG

Santa Clara County

Vertical Datum: NAVD88, U.S. Feet

Approximate Scale

100 ft

Map created by BLMG
Legend

Maximum Inundation Depth (feet)

- c1
- 1 to 2
- 2 to 5
- 5 to 10
- 10 to 20
- >20

Cities
Schools
Fire Stations
Road Callouts

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation zones and flood wave arrival times on this map are not intended to be used in legal disputes or for evaluating insurance losses. Actual flood inundation and flood wave arrival times may differ significantly from information shown on maps.

This map meets all applicable state and federal standards and has been prepared in accordance with known and available information.

Installation Map for the Hypothetical Fair Weather Failure of Calero Auxiliary Dam

Curtner Ave
Sheet 10 of 20
1 in = 1200 ft

Location: Curtner Ave

3.5 Hours Depth: 2 ft
Velocity: 3 ft/s

Location: CA-87

4.25 Hours Depth: 1 ft
Velocity: 3 ft/s
Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

Legend

Maximum Inundation Depth (feet)

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

Flood Wave Arrival Time

Cities
Schools
Fire Stations
Road Callouts

Vertical Datum: NAVD88, U.S. Feet

Approximate Scale 1 in = 1,000 ft

Figure 1: Inundation Analysis and maps created by SCVWD.

Inundation Map for the Hypothetical Fair Weather Failure of Calero Auxiliary Dam

Sheet 11 of 20

Santa Clara Valley Water District

August 2019

101-0019-0104

San Jose, CA 95118

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Published by

Printed in USA

Inundation Analysis and maps created by SCVWD.
Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.
The methods used to develop inundation maps and flood wave information are appropriate but should be used in conjunction with existing flood inundation maps. Actual inundation will depend on actual future conditions that 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. The methods used to develop inundation zones and flood wave information are appropriate but should be used in conjunction with existing flood inundation maps. Actual inundation will depend on actual future conditions that may differ significantly from information shown on maps.

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.
The methods used to develop inundation maps and flood zone information are appropriate for evaluating community zones. Actual inundation sites depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.

Legend
Maximum Inundation Depth (feet)

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

- Cities
- Schools
- Hospitals
- Fire Stations

Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

Inundation Analysis and maps created by SCVWD
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August 2019
San Jose CA 95118
1 in = 1,000 ft
The methods used to develop inundation maps and flood wave analysis are designed to be used in conjunction with evacuation plans 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. Arrival times are approximate and should only be used as guidance. This map states that failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow 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. The methods used to develop inundation zones and flood wave analysis are designed to be used in conjunction with evacuation plans and have been prepared to assist in the development of evacuation plans by local and federal governments.
Dams

Taida

FEW

1957

1959

1960

1962

1963

91081007

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Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.
Inundation Analysis and maps created by SCVWD

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Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.

Legend

Maximum Inundation Depth (feet)

<table>
<thead>
<tr>
<th>Category</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cities</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Schools</td>
<td>1 to 2</td>
</tr>
<tr>
<td>Hospitals</td>
<td>2 to 5</td>
</tr>
<tr>
<td>Fire Stations</td>
<td>5 to 10</td>
</tr>
<tr>
<td></td>
<td>10 to 20</td>
</tr>
<tr>
<td></td>
<td>&gt;20</td>
</tr>
</tbody>
</table>

Vertical Datum: NAVD88, U.S. Feet

The methods used to develop inundation areas and flood wave and wave zones are approximate and should not be utilized for regulatory purposes. Areas shown inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.

This map reveals the applicable laws and flood insurance and has been prepared for consideration by the Federal Emergency Management Agency.
Inundation Map for the
Hypothetical Fair Weather Failure of
Calero Auxiliary Dam

Federal Dam ID: CA00294     State Dam ID: 72-009

Sheet 10 of 20
1 in 10,000 ft

Date: August 2019
Santa Clara Valley Water District
San Jose, CA 95118

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This map meets all applicable state and federal standards and has been prepared in consideration of all potential downstream hazards. Arrival times are approximate and should only be used as guidance. This map is an analysis of inundation for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and appurtenant structure (CAS) assumptions. Fair Weather (FW) failure of the critical auxiliary dam at full capacity at the spillway lip without any additional inflow.
Fair Weather (FW) failure of the critical appurtenant structure (CAS) assumes failure of the auxiliary dam at full capacity at the spillway lip without any additional inflow.