

Emergency Action Plan (EAP)

# Wallace Dam

Calaveras County, CA



Owned and Operated by **Wallace Community Services District**

DSOD Dam No.: 499  
NID Dam No.: CA01314  
Hazard Classification: High

Issued 05/11/2026

Copy 1 of 1



## Wallace Dam Contact Information

### Physical Address

From Highway 12 (CA-12 E), turn onto Camanche Pkwy S. Then turn onto Wallace Lake Dr and continue onto S Wallace Lake Dr until you arrive at Wallace Lake.

See [Section 7.3 Access to Site](#) for detailed information on accessing Wallace Dam.

Coordinates: 38.1948, -120.9725

### Dam Owner & Operator

Wallace Community Services District

Steve Martin

Email: [s.martin@wallacecsd.com](mailto:s.martin@wallacecsd.com)

Phone: (209) 502-4338

### Chief Dam Safety Engineer

Jeffrey Kuhl

Email: [Jeffrey.kuhl@water.ca.gov](mailto:Jeffrey.kuhl@water.ca.gov)

Phone: (916) 606-5790

### Chief Dam Safety Officer

John Tatyosian

Email: [john.tatyosian@water.ca.gov](mailto:john.tatyosian@water.ca.gov)

Phone: (916) 820-7798

### EAP Coordinator

Steve Martin

Email: [s.martin@wallacecsd.com](mailto:s.martin@wallacecsd.com)

Phone: (209) 502-4338

### WCSD Operations and Maintenance, Emergency Contact – 24 Hour Availability

Phone: (209) 260-1031

# Table of Contents

Wallace Dam Contact Information.....	i
Table of Contents.....	ii
1. Statement of Purpose.....	1
1.1. Purpose .....	1
1.2. Emergency Management Agency Outreach.....	1
2. Summary of EAP Responsibilities .....	3
2.1. WCSD Responsibilities.....	3
2.2. Local, County, State, and Federal Public Safety Agency Responsibilities .....	3
3. Notification Process .....	7
4. Project Description.....	8
5. EAP Response Process .....	10
5.1. Incident Detection, Evaluation, and Emergency Level Determination .....	10
5.2. Notification and Communication .....	12
5.3. Emergency Level Determination and Response Process .....	12
5.4. Termination.....	14
5.5. Follow Up.....	15
6. General Responsibilities .....	16
6.1. WCSD Responsibilities.....	16
6.2. Notification and Communication Responsibilities .....	16
6.3. Evacuation .....	16
6.4. Monitoring, Security, Termination, and Follow-Up Responsibilities.....	16
6.5. EAP Coordinator.....	17
7. Preparedness .....	18
7.1. Surveillance and Monitoring .....	18
7.2. Evaluation, Detection, and Response Timing.....	18
7.3. Access to Site .....	18
7.4. Response During Periods of Darkness .....	19
7.5. Response During Weekends, Holidays, or Adverse Weather .....	19
7.6. Alternative Sources of Power .....	19
7.7. Emergency Supplies and Information.....	19
7.8. Stockpiling Materials and Equipment .....	19
7.9. Coordination of Information .....	19
7.10. Training and Exercise .....	19
7.11. Alternative Systems of Communication .....	20
7.12. Public Awareness and Communication .....	20

<b>8. Plan Maintenance .....</b>	<b>21</b>
8.1. Plan Review.....	21
8.2. Distribution.....	21
<b>Appendices.....</b>	<b>i</b>
<b>Appendix A: Maps and Drawings .....</b>	<b>3</b>
Appendix A.1: Access Directions .....	3
Appendix A.2: Overview Map to Wallace Dam .....	3
Appendix A.3: Key Dam Features.....	4
<b>Appendix B: Rating Curves .....</b>	<b>1</b>
Appendix B.1: Reservoir Storage Capacity Curve .....	1
Appendix B.2: Spillway Rating Curve .....	2
<b>Appendix C: Contact Table .....</b>	<b>1</b>
<b>Appendix D: Outreach Documentation .....</b>	<b>1</b>
<b>Appendix E: Bookholder List.....</b>	<b>1</b>
<b>Appendix F: Vendor Contact Information.....</b>	<b>1</b>
<b>Appendix G: Emergency Supplies .....</b>	<b>1</b>
<b>Appendix H: Forms and Log Sheets .....</b>	<b>1</b>
DAM EMERGENCY CONTACT LOG.....	2
DAM INCIDENT – CALIFORNIA STATE WARNING CENTER.....	4
Emergency Termination Log.....	5
After Action Report (AAR) Template.....	6
<b>Appendix I: Acronyms.....</b>	<b>1</b>
<b>Appendix J: EAP Revision Summary.....</b>	<b>1</b>
<b>Appendix K: Notification Messages .....</b>	<b>1</b>
High Flow Script.....	1
Non-Failure Script.....	1
Potential Failure Script.....	1
Imminent Failure Script.....	2
<b>Appendix L: WCSD Incident Management Team Guidelines.....</b>	<b>1</b>
<b>Appendix M: Posting the EAP .....</b>	<b>1</b>
Up-to-date copies of the flowchart and notification list are posted at the following locations: .....	1
<b>Appendix N: Emergency Contact List.....</b>	<b>1</b>
<b>Appendix O: Inundation Maps .....</b>	<b>1</b>
Quick Reference: Flood Flow and Time Estimates .....	2
Inundation Maps .....	3



**Notification Flowchart**

Wallace Dam	
Wallace Dam Owner Representative #1 Steve Martin Wallace Community Services District President PO Box 398 Wallace, CA 95254 (209) 502-4338	
<p>The dam owner representative will determine the alert designation at the dam according to Section 5 of this EAP and notify 911 and DSOD.</p> <p>Dam Location: Lat: 38.1948, Long: -120.9725, associated with the address 100 S Wallace Lake Dr, Wallace, California.</p> <p><b>High Flow Alert Level – talking points:</b></p> <p>► Notify Caltrans and CHP to coordinate road monitoring.</p> <p><b>Non-Failure Emergency Alert Level – talking points:</b></p> <p>► Notify DSOD or law enforcement to coordinate monitoring activity.</p> <p><b>Potential Failure Alert Level – talking points:</b></p> <p>► Notify the parties below that there is a potential dam failure situation developing.</p> <p><b>Imminent Failure Alert Level – talking points:</b></p> <p>► Notify the parties below that a dam failure is in progress or is imminent. Evacuations and/or road closures are needed.</p>	
Division of Safety of Dams (DSOD)	(916) 565-7800
Office of Emergency Services (OES)	(916) 845-8911
Flood Operations Center (FOC)	(916) 574-2619 OR (800) 952-5530
California Highway Patrol – San Andreas	(209) 306-6400
Calaveras County Sheriff	(209) 754-6500 24-hour: 911
National Weather Service (Sacramento, CA)	Primary: (916) 979-3051
Caltrans (District 10)	(209) 948-7543

# 1. Statement of Purpose

## 1.1. Purpose

The purpose of this Emergency Action Plan (EAP) is to reduce the risk of loss of human life or injury and to minimize property damage in the event of a dam safety emergency or flooding caused by large releases from Wallace Dam.

This EAP defines procedures to aid in identifying unusual circumstances that may endanger Wallace Dam. This EAP defines responsibilities and procedures for mitigative actions, conducted by Wallace Community Services District (WCSD). In addition, the EAP identifies the responsibilities of local, county, state, and federal public safety agencies and the processes of notifications in the event of potential, impending, or actual failure of Wallace Dam.

This EAP may also be used to provide notification when release of naturally occurring high flows will create major flooding downstream of the reservoir.

The Department of Water Resources (DWR), Division of Safety of Dams (DSOD) rate Wallace Dam with the hazard classifications as follows:

**Table 1-1: DSOD Hazard Classifications**

Dam Name	DSOD Hazard Classification
Wallace Dam	High

Because of this hazard classification, WCSD developed this EAP in accordance with the California Water Code Sections 6160 and 6161 and Government Code Section 8589.5, following Federal Emergency Management Agency (FEMA) Federal Guidelines for Dam Safety: EAP for Dams (FEMA 64/July 2013).

## 1.2. Emergency Management Agency Outreach

This EAP was developed by WCSD in partnership with the following impacted local, county, state, and federal public safety agencies:

- California Department of Forestry and Fire Protection (CAL FIRE), Tuloume-Calaveras
- California Department of Transportation (Caltrans), District 10
- California Highway Patrol (CHP), San Andreas
- California Governor's Office of Emergency Services (Cal OES)
- California State Warning Center (CSWC)
- Department of Water Resources, Division of Safety of Dams (DSOD)
- Department of Water Resources, Flood Operations Center (FOC)
- Calaveras County, including Office of Emergency Services, Public Works, Sheriff's Departments, and Fire Department
  - Calaveras is a small county, and all agencies are under the same umbrella
- National Oceanic and Atmospheric Administration (NOAA), National Weather Service (NWS)

All agencies listed above were provided this EAP to review and to provide feedback. All agencies confirmed their responsibilities pertaining to this EAP and verified all contact

information is accurate.

All agencies were provided a final copy of the Wallace Dam EAP and any feedback provided is included on the outreach documentation page (see [Appendix D: Outreach Documentation](#)).

## 2. Summary of EAP Responsibilities

Critical responsibilities for WCSD personnel and local, county, state, and federal public safety agencies are summarized below for quick reference. The responsibilities listed include those for responding to an incident and implementing the EAP. For successful implementation of this EAP, WCSD continuously engages and partners with local, county, state, and federal public safety agencies to maintain strong communication and a common understanding of each agency's role(s) and responsibilities. This section contains comprehensive descriptions of the roles and responsibilities established by this EAP.

### 2.1. WCSD Responsibilities

Key responsibilities for WCSD personnel include:

- Detecting, verifying, and assessing unusual conditions at the dam that could lead to a dam safety emergency or incident;
- Taking corrective actions to prevent or reduce severity of emergency, including making changes to flows and/or coordinating with upstream/downstream operators;
- Activating and implementing the EAP and determining the appropriate Emergency Level (High Flow, Non-Failure, Potential Failure, or Imminent Failure);
- Notifying appropriate internal WCSD personnel and local, county, state, and federal public safety agencies of the EAP activation, current emergency conditions, and other critical information (as well as subsequent notifications regarding incident updates and the termination of the EAP);
- Terminating the EAP;
- Implementing recovery efforts to restore the safe and reliable operation of the dam and its associated water control structures;
- The annual maintenance, training, exercising, and distribution of the EAP.

### 2.2. Local, County, State, and Federal Public Safety Agency Responsibilities

Below is a list of local, county, state, and federal public safety agencies which may be impacted by an incident at the dam and their respective roles and responsibilities.

**Table 2-1: Local, County, State, and Federal Public Safety Agency Responsibilities**

Agency	Roles/Responsibilities
CAL FIRE	<ul style="list-style-type: none"> <li>• Serves and safeguards the people and protects the property and resources of California.</li> <li>• Receive condition status reports from WCSD</li> <li>• Render assistance to WCSD, as necessary</li> <li>• Participate in after action evaluation</li> </ul>
Caltrans	<ul style="list-style-type: none"> <li>• Receive condition status reports from WCSD</li> <li>• Coordinate resources within California Department of Transportation (Caltrans) for emergency conditions</li> <li>• Assist County Sheriff with notifying the public within jurisdictional limits going door-to-door as appropriate</li> <li>• Assist County Sheriff with evacuating areas within the dam inundation area and assisting in identifying safe evacuation routes</li> <li>• Assist County Sheriff in providing security for the affected areas during, and after, evacuation</li> <li>• Provide mutual aid to other jurisdictions, if requested and able.</li> <li>• Render assistance to WCSD, as necessary</li> </ul>

	<ul style="list-style-type: none"> <li>• Participate in after action report preparation</li> </ul>
CHP	<ul style="list-style-type: none"> <li>• Assist local law enforcement with evacuation route support and equipment necessary to augment traffic controls, through California Law Enforcement Mutual Aid Agreement.</li> <li>• Receive condition status reports from WCSD</li> <li>• Render assistance to WCSD, as necessary</li> <li>• Participate in after action evaluation</li> <li>• Activate Division EOC.</li> <li>• Report to the Unified Command Post to obtain an incident briefing from the Incident Commander (IC) or the Operations Section Chief, as established</li> </ul>
Cal OES	<p>The mission of Cal OES is to protect lives and property, build capabilities, and support our communities for a resilient California. Cal OES plays an assortment of roles in managing the dam safety program and related emergencies.</p> <p>The Dam Safety Planning Division is responsible for reviewing and approving the District's EAP.</p> <p>The Division also participates in the annual review and update of the EAP</p>
CSWC	<p>The mission of the CSWC is to be a central intelligence hub for statewide emergency communications and notifications, serving as a highly reliable and accurate "one-stop" resource for emergency management, law enforcement, fire, and key decision-making personnel throughout the state. The CSWC is staffed 24 hours a day, seven days a week watching over California to identify potential and emerging threats, provide alert notification to all levels of government as well as critical situational awareness during an emergency or disaster. The CSWC has the responsibility to receive, coordinate, verify and disseminate information pertaining to events which occur within California or that could affect California. Information received by the CSWC is coordinated between Cal OES and other sources to ensure that the information which is disseminated is both timely and accurate.</p>
DSOD	<p>In the event of an emergency at the dam, DSOD actions could include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Advising the dam owner's/operator's representative of remedial actions to take</li> <li>• Ordering the dam owner's/operator's representative of remedial actions to take</li> <li>• Assuming control of the dam if necessary to safeguard life and property</li> <li>• Advising the dam owner's/operator's representative of the emergency level determination</li> <li>• Inspecting the dam during and after the emergency</li> <li>• Design review and approval of emergency repairs</li> <li>• Acting as a dam technical specialist in the State Operations Center (SOC), or other emergency operations centers (EOC)</li> </ul>
DWR FOC	<p>The FOC provides a facility from which DWR can centrally coordinate emergency response statewide. In the event of a dam incident, DWR can issue river forecasts, make notification calls to appropriate local, State, Federal, and emergency response agencies, and activate the FOC by declaring a Flood Alert or Flood Mobilization. The DWR FOC will work in conjunction with NWS, and coordinate with other local, State, and Federal agencies as appropriate. The DWR FOC will attend the after-action review meeting.</p>

Calaveras County Office of Emergency Services	<ul style="list-style-type: none"> <li>• Provide emergency preparedness information from local, state, and federal sources to the Operational Area member jurisdictions and the citizens of Calaveras County</li> <li>• Maintains and keeps current the EOC Activation Staffing list. The County EOC will be activated immediately for any imminent dam failure scenario</li> <li>• Upon notification and request to respond to any incident, report to the IC or the Liaison officer, if the position has been established, and obtain an incident briefing</li> <li>• Determine whether or not the County EOC will need to be activated</li> <li>• Provide OES status report to WCSD.</li> <li>• Receive other City/County department resource status reports from Central Dispatch</li> <li>• Provide status reports of the situation to County Sheriff and other key County Officials as necessary</li> <li>• Establish communications or make contact with Operational Area member jurisdictions and special districts that are impacted</li> <li>• Make all necessary preparations to activate the County EOC in the event activation is required or requested</li> <li>• Based on the situation, recommend an emergency proclamation to the Chief Administration Officer and Calaveras County</li> <li>• Coordinate emergency public information with WCSD</li> <li>• In coordination with County Sheriff, determine whether to issue a mass notification message to notify the public if evacuation is necessary</li> <li>• Receive condition status reports from WCSD</li> <li>• Render assistance to WCSD, as necessary</li> <li>• Participate in after action evaluation</li> </ul>
Calaveras County Sheriff	<ul style="list-style-type: none"> <li>• Implement public warning and notification</li> <li>• Execute evacuation from areas impacted by flooding and block access areas as applicable</li> <li>• Establish evacuation routes and road closures</li> <li>• Provide security for the affected areas during, and after, evacuation</li> <li>• Establish shelters for evacuated individuals</li> <li>• Facilitate return of evacuated individuals</li> <li>• Receive condition status reports from WCSD</li> <li>• Render assistance to WCSD, as necessary</li> <li>• Participate in after action evaluation</li> </ul>
Calaveras County Public Works	<ul style="list-style-type: none"> <li>• Contact the Calaveras County Sheriff and receive briefing and/or assignments</li> <li>• Upon request, assess the damage sustained to County roads and crossings and report findings to the County Sheriff</li> <li>• Receive condition status reports from WCSD</li> <li>• Render assistance to WCSD, as necessary</li> <li>• Participate in after action evaluation</li> </ul>
NWS	<ul style="list-style-type: none"> <li>• Provide weather forecasts and warnings of hazardous weather and flooding in support of a potential or imminent dam failure for the purpose of protection of life and property, including notification of the public via flash flood watches and warnings</li> <li>• Issue an alert/notification to the general public, media, and to public agencies for flood watches and warnings, including flood watch, flood advisory, flood warning, flash flood watch, and flash flood warning</li> </ul>



	<ul style="list-style-type: none"><li>• Issue a Flash Flood Watch for a potential dam failure that would cause impact to the downstream areas</li><li>• Issue a Flash Flood Warning for an imminent dam failure with expected impact to the downstream area</li><li>• Use the Emergency Alert System (EAS)</li><li>• Receive condition status reports from WCSD</li><li>• Render assistance to WCSD, as necessary</li><li>• Participate in after action evaluation</li></ul> <p>NWS – Sacramento is the NWS office supporting Calaveras County.</p>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The local, county, state, and federal public safety agencies have mutual aid agreements that may be activated during a dam incident. The surrounding cities are also part of the mutual aid agreements and could potentially be part of response to an incident.

### 3. Notification Process

The notification flowchart(s) for this EAP are located after the Table of Contents, so that WCSD operators and personnel can quickly flip to access them in the event of an emergency.

WCSD developed the notification flowchart(s) to identify persons responsible within potentially impacted local, county, state, and federal public safety agencies who need to be contacted and in what order, based on the appropriate emergency level. The local, county, state, and federal public safety agencies for all impacted jurisdictions are included on the notification flowchart(s). Each contact on the flowchart(s) is given a specific order number to ensure the person initiating contact understands the order in which to make the calls. More than one person from WCSD will be making the flowchart(s) contacts. Additional contacts will be made by the local, county, state, and federal public safety agencies. These additional/secondary calls have been agreed to by the organizations designated to make the calls.

The WCSD notification flowchart(s) do not supersede or affect additional notification required by external organizations' procedures and requirements. WCSD ensures positive contact is made when making these calls. Positive contact is an interactive communication made either in person or via phone conversation (not voicemail left, text message or email). Every number listed can be used 24-hours a day unless otherwise noted.

Secondary numbers and contact information for key stakeholders is in [Appendix C: Contact Table](#).

When contacting the CSWS to provide notification, WCSD will utilize the CSWS Dam Incident form listed in [Appendix H: Forms and Log Sheets](#).

## 4. Project Description

Table 4-1: Project Description

<b>Project Name</b>	<b>Wallace Dam</b>
<b>Critical Appurtenant Structures (CAS)</b>	N/A
<b>County</b>	Calaveras
<b>Impacted Jurisdictions</b>	Wallace, CA
<b>Year Built</b>	1982
<b>NID Dam No.</b>	CA01314
<b>DSOD Dam No.</b>	499
<b>DSOD Hazard Classification</b>	High
<b>Coordinates</b>	
<b>Degrees</b>	38.1948, -120.9725
<b>Reservoir</b>	
<b>Water Surface Elevation</b>	
<b>Surface Area</b>	52 acres
<b>Drainage Area</b>	1.09 sq miles
<b>Storage Capacity</b>	410 acre-ft
<b>Upstream Dams</b>	N/A
<b>Downstream Dams</b>	N/A
<b>Associated Water Systems, Watersheds, Tributaries</b>	
<b>Upstream</b>	N/A
<b>Downstream</b>	Bear Creek
<b>Downstream Channel Capacity</b>	
<b>Dam Type</b>	Earthen
<b>Dam Height</b>	29 ft
<b>Crest</b>	
<b>Crest Length</b>	700 ft
<b>Crest Width</b>	60 ft
<b>Crest Elevation</b>	257.89 ft
<b>Spillway</b>	
<b>Type</b>	Box Culvert
<b>Spillway Elevation</b>	252.69 ft
<b>Low Level Outlet</b>	N/A

Wallace Dam is located adjacent to Bear Creek in Calaveras County, California, approximately 0.6 miles south of Camanche Reservoir in the town of Wallace. The 29-foot high, 700-foot long earthen dam impounds Wallace Lake, a 400 acre-foot (ac-ft) gross storage capacity reservoir. Wallace Lake supports water supply and irrigation needs for the town of Wallace and nearby communities. DSOD has not identified any critical appurtenant structures connected to this dam.

Water level in the reservoir stays below the spillway invert throughout the year, barring an extreme storm event. The reservoir is usually filled in March of each year by groundwater and rain flow.

There is a 5-foot by 5-foot box culvert spillway located near the right abutment with a drop structure inlet elevation of 252.69 feet. The spillway can release 365 cubic feet per second (cfs) of water into a small channel connecting to Bear Creek. The spillway is also equipped with a lower-level inlet at elevation 246.69 feet but it generally remains sealed. The spillway invert is situated at elevation 244.19 feet.

The crest of the dam is protected by locked gate. The toe of the dam is accessible on foot behind the WCSD building. General public access to the lake vicinity is available via Wallace Lake Drive. Wallace Lake Drive can be accessed from Highway 12, which is located 0.3 miles west of Wallace Dam. Maps and drawings, including access maps and detailed dam features, can be found in [Appendix A: Maps and Drawings](#).

As shown in the inundation maps (**Appendix O**), a breach of Wallace Dam will result in significant flooding along Bear Creek. A Sunny Day dam breach analyses of Wallace Dam was completed and submitted to DSOD in fall 2025. Under Sunny Day breach conditions, the first point of impact would be overtopping Highway 12, located approximately 900 feet downstream of Wallace Dam. Many of the buildings along Highway 12 in the town of Wallace become inundated with an average water depth of 1 foot. The leading edge of the flood wave takes approximately 12 minutes to reach Bear Creek. The flood wave attenuates downstream along Bear Creek, spilling over into adjacent farmland and inundating a handful of structures along the way. As the flood wave travels, Cord Road, Johnson Road, Clements Road, and Atkins Road will all be overtopped. The downstream limit of the potential hazards posed by the hypothetical breach of Wallace Dam is roughly 12 miles downstream along Bear Creek where the peak flow will occur approximately 11 hours into the breach event.

Rating curves for the reservoir's storage capacity and the dam's spillway can be found in [Appendix B: Rating Curves](#).

Wallace Dam has never had an incident that resulted in the activation of the EAP. There have been no significant incidents for this dam in the last 10 years.

## 5. EAP Response Process

WCSD emergency response process includes the following four steps:

1. Incident detection, evaluation, and emergency level determination
2. Notification and communication
3. Emergency actions
4. Termination and follow-up

Upon receipt of the initial report of unusual conditions or suspicious activities at the dam or appurtenant facilities (as applicable), the Dam Owner will evaluate and classify the conditions based on available information. Evaluation of abnormal dam safety conditions and determination of classification of the conditions may require the consultation of DSOD engineers. See [Section 7.1, Surveillance and Monitoring](#) for more information on surveillance and monitoring. For conditions suspicious of terrorism activities, determination of classification of the conditions may require consultation with the County Sheriff. The decision to implement the EAP will be determined by the WCSD based on available information.

### 5.1. Incident Detection, Evaluation, and Emergency Level Determination

Wallace Dam is an unstaffed facility and WCSD routinely visits/inspects the dam, as described in [Section 7, Preparedness](#). It is expected the routine inspections would discover potentially dangerous conditions before any danger of a dam failure occurs. The lake is visually inspected by Wallace Lake Community residents. Should a change in water level be noticed, WCSD reports to the dam to assess the emergency condition. Members of the general public who may also observe any suspicious activity or anomalies while hiking in the area, may contact the local sheriff who will contact the WCSD.

See [Section 7.1, Surveillance and Monitoring](#) for more information about surveillance and monitoring of the dam.

#### Evaluation

Evaluation takes place when unusual conditions require investigation and corrective action; the potential for failure is assessed, and corrective measures are implemented. The evaluation process describes an unusual or emergency event and provides information to assist in determining the appropriate emergency level for the event. After identification of a dam threatening condition, WCSD will determine if there is sufficient time for additional investigation before declaring an emergency and assumes the responsibility to:

- Make an evaluation of the severity of the condition and the progressive nature of the failure; (i.e., how quickly will the dam be in danger of failing)
- Select an appropriate notification sequence based on the above decision

#### Determining Emergency Level

Prior to activating the EAP, WCSD will determine the Emergency Level. The following four Emergency Levels, named by FEMA Federal Guidelines for Dam Safety, have been adopted for this EAP and are listed in order of severity:



WCSD will immediately classify the emergency according to the severity and urgency of the situation. Some of the factors to be considered when evaluating the emergency may include lake levels, weather conditions, location of the leak or seep, etc. Guidance for determining the Emergency Level is provided below, in [Section 5.3 Emergency Level Determination and Response Process](#).

### High Flow Operations

High Flow emergency level indicates that flooding is occurring on the river system, but there is no apparent threat to dam integrity. The High Flow emergency level is used by WCSD to convey to local, county, state, and federal public safety agencies that downstream areas may be affected by the dam's release. Although the amount of flooding may be beyond the control of WCSD, information on the timing and amount of release from the dam may be helpful to authorities in making decisions regarding warnings and evacuations.

**Table 5-1: High Flow Table: Wallace Dam**

Reservoir level	Downstream Impacts	Organizations to be Notified
≥257 ft		Use the Notification Flowchart ( <a href="#">Notification Flowchart</a> )

### Non-Failure Emergency

The Non-Failure emergency level is appropriate for an event at a dam that will not, by itself, lead to a failure, but requires investigation and notification of internal and/or local, county, state, and federal public safety personnel. Examples of Non-Failure events include:

- New seepage or leakage on the downstream side of the dam;
- Presence of unauthorized personnel at the dam;

Some incidents, such as new seepage, may only require an internal response from WCSD. Others, such as a spillway malfunction that leads to unexpected high releases that could pose a hazard to the downstream public and would require the notification of local, county, state, and federal public safety agencies.

### Potential Failure

The Potential Failure emergency level indicates that conditions are developing at the dam that could lead to a dam failure. Some examples include:

- Rising reservoir levels that are approaching the top of the non-overflow section of the dam;
- Transverse cracking of an embankment;
- A verified bomb threat.

Potential Failure should convey that time is available for analyses, decisions, and actions before the dam could fail. A failure may occur, but predetermined response actions may moderate or alleviate failure.



**Imminent Failure**

The Imminent Failure emergency level indicates that time has run out, and the dam has failed, is failing, or is about to fail.

It is not usually possible to determine how long a complete breach of a dam will take. Therefore, once a decision is made that there is no time to prevent failure, the Imminent Failure warning must be issued. For purposes of evacuation, emergency management authorities may assume the worst- case condition that failure has already occurred.

**5.2. Notification and Communication**

After the emergency level at the dam has been determined and the EAP is activated, notifications are made by WCSD personnel using [Notification Flowchart](#). A more detailed contact list for the local, county, state, and federal public safety agencies is included in [Appendix C: Contact Table](#). Instructions for completing the notifications are detailed in [Appendix H: Forms and Log Sheets](#).

Telephone calls (whether by cell phone or landline) are the primary means of communication during an EAP activation. In the event that commercial telephone service is disrupted, other emergency backup communication systems may be used such as the Government Emergency Telecommunications Service (GETS) and Wireless Priority Service (WPS), operated by the federal government, which allows for priority telephone service (cellular and landline) over commercial phone systems, or 900 MHz radio systems and/or portable Iridium satellite phones. These calls should be recorded in the California State Warning Center Log (located in [Appendix H: Forms and Log Sheets](#)) and returned to the EAP Coordinator via email to verify completion.

Pre-scripted messages for each of the four emergency levels are contained in [Appendix K: Notification Messages](#).

Regardless of the status, the identified dam supervisor will make periodic status/incident updates to all contacts on the Notification Flowchart. If an IC has been identified for the incident, the IC will be added to the notification list.

**5.3. Emergency Level Determination and Response Process**

In the event of an emergency at the dam, WCSD personnel will coordinate operations and involve local, county, state, and federal public safety agencies as necessary. WCSD will work to mitigate the incident by determining what remediation actions to take. Additionally, if needed, WCSD will send a liaison to the appropriate emergency operations center and/or Incident Command Post(s).

**Table 5-2: Wallace Dam Emergency Level Determination**

Event	Situation	Emergency Level
Earthen Embankment Deterioration	<ul style="list-style-type: none"> <li>Significant deterioration results in visible damage or leakage while the reservoir is full</li> </ul>	Non-Failure
	<ul style="list-style-type: none"> <li>Overstressing and cracking of dam face</li> <li>Significant increase in leakage</li> <li>Continuous cracks form within dam or along dam foundation interface</li> </ul>	Potential Failure
	<ul style="list-style-type: none"> <li>Uncontrolled release and/or dam fails</li> </ul>	Imminent Failure
Flood/High Flow Event	<ul style="list-style-type: none"> <li>Impending storm/large flows anticipated while the reservoir is full</li> </ul>	Non-Failure
	<ul style="list-style-type: none"> <li>Rapidly rising reservoir</li> <li>Dam overtops</li> <li>Evidence of continuous cracking forming within dam or along dam foundation interface</li> <li>Erosion of foundation</li> </ul>	Potential Failure
	<ul style="list-style-type: none"> <li>Uncontrolled release and/or dam fails</li> </ul>	Imminent Failure
Debris	<ul style="list-style-type: none"> <li>Significant amount of debris in reservoir</li> <li>Impending storm/large flows anticipated while the reservoir is full</li> <li>Dam overtopping caused by debris blocking the spillway during a flood condition</li> </ul>	Non-Failure
	<ul style="list-style-type: none"> <li>Rapidly rising reservoir with increasing overtopping</li> <li>Evidence of continuous cracking forming within dam or along dam foundation interface</li> <li>Erosion of foundation</li> </ul>	Potential Failure
	<ul style="list-style-type: none"> <li>Uncontrolled release and/or dam fails</li> </ul>	Imminent Failure
Earthquake	<ul style="list-style-type: none"> <li>Seismic event ~5.0M within 50 miles</li> <li>Shear failure of weak plane</li> </ul>	Non-Failure
	<ul style="list-style-type: none"> <li>Continuous cracks form along dam foundation</li> <li>Inspection results in visible damage, weak plane</li> <li>Downstream gaging station alarms indicate above normal flows</li> </ul>	Potential Failure
	<ul style="list-style-type: none"> <li>Uncontrolled release and/or dam fails</li> </ul>	Imminent Failure
Sabotage/Vandalism	<ul style="list-style-type: none"> <li>Tampering of operating system results in reservoir drawdown</li> </ul>	Non-Failure
	<ul style="list-style-type: none"> <li>Operation can result in uncontrolled release while the reservoir is full</li> </ul>	Potential Failure

Below is a summary of possible remedial actions WCSD will take based on event type.

**Table 5-3: Possible Remediation Actions As Applicable to Wallace Dam**

<b>Event</b>	<b>Possible Remediation Actions</b>
Earthquakes	Inspect dam and evaluate the damage sustained and the potential danger of failure. Check for seepage, cracks, displacements, and settlement. Inspect spillway. Evaluate instrumentation.
Embankment Cracking or Settlement	Lower the water level by by pumping or siphoning. If necessary, restore freeboard. Lower water level in reservoir to a safe level; continue operating at a reduced level until repairs can be made.
Embankment Movement	Lower water level in the reservoir to an elevation that is considered safe given slide condition.
Embankment Overtopping	If the water in the reservoir is no longer rising, place sandbags along the low areas of the top of the dam to control wave action, reduce the likelihood of flow concentration during minor overtopping, and to safely direct more water through the spillway. Cover weak areas of the top of the dam and downstream slope with riprap, sandbags, plastic sheets, or other materials to provide erosion-resistant protection.
Erosion of Spillway	Provide temporary protection at the point of erosion by placing sandbags, riprap materials, or plastic sheets weighted with sandbags. Consider pumps and siphons to help reduce the water level in the reservoir. When inflow subsides, lower the water level in the reservoir to a safe level; continue operating at a lower water level to minimize spillway flow.
Fire	Contact fire departments and implement fire procedures
Abnormal Instrumentation Reading	Conduct daily inspections of the dam. Check and record reservoir elevation, rate at which reservoir is rising, weather conditions (past, current, forecasted), discharge conditions of creeks/rivers downstream, and new or changed conditions associated with this event. Evaluate accuracy of instrumentation.
Sabotage or Vandalism	Contact law enforcement to help evaluate the situation. If embankment or spillway has been damaged, provide temporary protection in damaged area. Lower water in reservoir by using pumps and siphons if necessary. If water supply has been contaminated, immediately close all inlets to water supply system and notify appropriate authorities.
Sand Boils	Determine location and size of affected area. Estimate discharge rate and nature of discharge (cloudy or clear seepage). Provide temporary protection at point of erosion by placing sandbags around boil area to confine flow. If necessary, lower water level in reservoir to a safe level until permanent repairs can be made.
Security Threats	Contact law enforcement
Seepage, Springs, Piping	If the leak originates from within the reservoir or the upstream embankment, plug the flow with available material such as hay bales, bentonite, or plastic sheeting. Lower water level in the reservoir until flow decreases to a non-erosive velocity or until it stops. Place an inverted filter (a protective sand and gravel filter) over the exit area to hold materials in place. Continue lowering the water level until a safe elevation is reached; continue operating at a reduced level until repairs are made. Stabilize damaged areas on the downstream slope by weighting the toe area below the slide with additional soil, rock, or gravel.
Sinkholes	Conduct an immediate engineering exploration to determine cause of sinkhole, and to evaluate damage sustained and potential for failure. Determine exit point of flowing water. Implement temporary measures to protect damaged structure, such as closing inlet and lowering water level in reservoir to a safe level until permanent repairs can be made.
Storm Event	Conduct daily inspections of dam as accessible. Check and record the reservoir elevation, rate at which reservoir is rising, weather conditions (past, current, forecasted), discharge conditions of creeks/rivers downstream, and new or changed conditions associated with this event. If heavy spillway flows are expected to cause downstream damage even though the dam is not in danger, take appropriate emergency action for downstream facilities and people.

## 5.4. Termination

WCSD, through the Chief Dam Safety Engineer, will provide incident information to the responding local, county, state, and federal public safety agencies. Based on data received from

the field, in conjunction with the conditions at the dam, the Chief Dam Safety Engineer determines when to terminate the Emergency at the dam and convey that information to responding agencies through the Notification Flowchart. EAP termination usually occurs once the dam incident has been resolved at the dam site – this does not signify termination of the incident or IC.

The Chief Dam Safety Engineer completes the Dam Emergency Termination Log, located in [Appendix H: Forms and Log Sheets](#), after the emergency conditions have been addressed and before the EAP activation is terminated. The log must be used to document conditions and decisions made regarding the termination of the emergency conditions at the dam. WCSD will utilize the flowchart to notify all flowchart entities when the emergency has been terminated.

### 5.5. Follow Up

After the EAP is terminated, the EAP Coordinator will set up and facilitate an after-action review to review the incident and EAP implementation activities. WCSD and the responding local, county, state, and federal public safety agencies, should be present at the meeting. The following topics will be discussed and evaluated:

- Events or conditions leading up to, during, and following the incident
- Significant actions taken by each participant and improvements for future emergencies
- All strengths and deficiencies found in the incident management process, materials, equipment, staffing levels, and leadership
- Corrective actions identified and a planned course of action to implement recommendations.

The results of the after-action review will be documented in an After-Action Report (AAR) and used to revise the EAP. The AAR template is in [Appendix H: Forms and Log Sheets](#).

## 6. General Responsibilities

### 6.1. WCSD Responsibilities

As the owner and operator of the dam, WCSD is responsible for detecting and evaluating dam safety incidents, classifying the incident, notifying emergency management authorities, taking appropriate response actions, and terminating the emergency at the dam. [Section 2: Summary of EAP Responsibilities](#) has additional information on the roles and responsibilities established by this EAP.

WCSD trains key personnel in the use of this EAP, to ensure understanding of their respective roles and responsibilities, and if applicable, how to operate any emergency equipment. Details regarding the operation of the dam during an emergency are contained in [Table 5-3: Possible Remediation Actions As Applicable to Dam Name](#).

### 6.2. Notification and Communication Responsibilities

As shown on the flowchart, the WCSD will notify and communicate with Calaveras County on all activations of the EAP. During an incident, WCSD is responsible for keeping local, county, state, and federal public safety agencies informed of developing conditions. WCSD will also discuss potential flooding with NWS officials, so that NWS can issue any appropriate flash flood watches and warnings. WCSD IC will be in communication with the county Emergency Operations Center. In accordance with WCSD crisis communication plans and protocols, all communications to the media will be conducted by WCSD Public Information Officer (PIO).

More information about WCSD IC structure and communication can be found in [Appendix L: DAM OWNER Incident Management Team Guidelines](#).

### 6.3. Evacuation

The local agency that has primary law enforcement responsibilities for the jurisdiction affected is responsible for conducting and coordinating evacuations. The Calaveras County Sheriff's Office is the primary law enforcement provider for the inundation areas immediately downstream from the Wallace Dam, and will be lead in organizing and implementing evacuations and will be supported by the Calaveras County Fire Department as needed. Calaveras County OES will support the evacuations by providing critical public Alert & Warnings and operating the County EOC.

The local Police Departments are responsible for conducting and coordinating evacuations within the town of Wallace and are supported by the Calaveras County Fire Department and the County OES. The local and county Fire Departments have the primary responsibility for rescue and firefighting activities within their respective jurisdiction. CalFire will also support through mutual aid agreements as needed.

### 6.4. Monitoring, Security, Termination, and Follow-Up Responsibilities

WCSD is responsible for on-site monitoring during an emergency. Mobile communications will be utilized to provide real-time status of the existing conditions. In cooperation with local, county, and state public safety agencies, access to any potentially hazardous areas or unsecured asset will be restricted to authorized personnel.

The duration of a hazardous or potentially hazardous condition is dependent on existing conditions. The Chief Dam Safety Engineer will assess the emergency condition by continuous monitoring of the situation during the duration of the incident in consultation with WCSD technical experts and local, county, state, and federal public safety agencies.

The Chief Dam Safety Engineer is responsible for determining the end of the emergency condition and termination of the EAP. Termination of the EAP will take place when flows have receded, and no hazardous or imminent failure conditions exist at downstream dams. WCSD understands that an emergency condition may continue downstream long after the emergency ends and recovery begins. The lead Emergency Management Agency is responsible for termination of the emergency as it relates to public safety.

When an incident has been resolved, Chief Dam Safety Engineer will officially terminate the EAP and ensure that the Termination Log is completed ([Appendix H: Forms and Log Sheets](#)). Termination of the EAP will take place when flows have receded, and nonhazardous or imminent failure conditions exist at downstream dams or appurtenant structures. Upon termination, a call-down of the notification flowchart will be completed to inform all contacts of the termination.

Post-incident, the EAP Coordinator will facilitate a meeting with all WCSD personnel and impacted local, county, state, and federal public safety agencies involved in the EAP implementation. Following this meeting, the EAP Coordinator will consolidate the information and produce an AAR. The EAP Coordinator will then use the AAR to review/update the EAP.

## 6.5. EAP Coordinator

The main responsibilities of the EAP Coordinator include:

- Conduct annual reviews of the EAP
- Prepare revisions to the EAP
- Establish training program
- Coordinate EAP exercises to verify the functionality of the EAP with local, county, state, and federal public safety agencies listed on the notification flowchart
- Serve as the point of contact for questions regarding the EAP
- Ensure the EAP is updated at least annually
- Facilitate annual drills or exercises in compliance with Government Code 8589.5



## 7. Preparedness

### 7.1. Surveillance and Monitoring

Wallace Dam is unstaffed.

The dam is visited by DSOD engineers annually in order to record leakage and evaluate the overall condition of the dam. The reservoir level is visually monitored by residents of WCSD daily. During annual visits, DSOD personnel observe the condition of the dam, spillway, and any leakage measurements. Observations are recorded on the Dam Safety Observation Checklist (DSOC). DSOD report immediately any conditions that could potentially affect the safe operation of the dam to the WCSD. In addition to the formally documented inspections, the dam is frequently visited by the WCSD personnel as a part of normal operations and maintenance activities.

WCSD personnel visit the dam at least twice monthly, generally weekly during the spring and monthly during the late summer when accompanying the annual DSOD inspection. The dam is inspected by DSOD engineers following an earthquake of M5.0 or greater within 50 miles of the dam, and after significant spill events greater than 350 cfs.

In the event of instrumentation failure, visual inspections will be performed.

### 7.2. Evaluation, Detection, and Response Timing

Upon detection of any emergency event, personnel will immediately contact the DSOD Regional Engineer

Upon receipt of the initial report of unusual conditions or suspicious activities at the dam, the Chief Dam Safety Engineer will evaluate and classify the conditions based on available information.

Evaluation of abnormal dam safety conditions and determination of classification of the conditions may require the consultation of DSOD.

The decision to implement the EAP will be determined by the Chief Dam Safety Engineer based on an assessment of the emergency condition.

Under normal operating conditions and dependent on the location of field personnel at the time of the incident, response time to an emergency at the dam could be achieved within 28 minutes.

### 7.3. Access to Site

Wallace Dam is located in the town of Wallace, California. There is no physical address for the dam or the lake.

WCSD Dam Owner is available 24 hours per day, 7 days per week to respond to events. Personnel are dispatched to the site, as needed, unless an unsafe condition exists or is suspected to exist.

An access map to the site is included in [Appendix A: Maps and Drawings](#), along with a map detailing dam features.

**Table 7-1: Summary of Access Response Times to Wallace Dam from Calaveras County Sheriff**

Site Access Method	Conditions	
	Fair Weather	Inclement Weather/Darkness
Vehicle	28 minutes	30 minutes

#### 7.4. Response During Periods of Darkness

Nighttime access to Wallace Dam is the same as daytime access. Vehicles may use Wallace Lake Drive to reach the dam or any of the walkways circumventing Wallace Lake.

#### 7.5. Response During Weekends, Holidays, or Adverse Weather

During the weekends or holidays, response time is that same as that listed in [Section 7.3 Access to Site](#).

#### 7.6. Alternative Sources of Power

Hand-held or portable lights are provided by residents and are of personal use quality and quantity. These hand-held/portable lights are available.

#### 7.7. Emergency Supplies and Information

If WCSD requires any emergency supplies, there are local vendors available. A copy of this list is in [Appendix G: Emergency Supplies](#).

#### 7.8. Stockpiling Materials and Equipment

WCSD is not equipped to repair large scale dam damage. After an assessment of the damage, if necessary, contractors specializing in dam or tunnel repair will be contracted to make repairs. WCSD engineering consultants will prepare specifications for repair. The dam will remain drained until proper repairs are made.

The list of equipment available for use is in [Appendix G: Emergency Supplies](#).

#### 7.9. Coordination of Information

The NWS sends extreme weather event warnings and alerts to residents of WCSD. Coordination of information on flows based on weather and runoff forecasts, dam failure, and other emergency conditions will be the responsibility of the Control Center. In the event of an emergency, the Control Center will direct releases of water, as needed.

Actions to be taken to lower the reservoir surface elevation, and to reduce downstream flow, as well as how and when the actions should be taken, are described in [Section 5.3: Emergency Level Determination and Response Process](#). Names and contact information for responsible parties is provided in [the Notification Flowchart](#).

#### 7.10. Training and Exercise

All personnel involved in the EAP should be familiar with the elements of the plan, their responsibilities and duties outlined in the plan and, if applicable, the types and availability of

equipment during an emergency. Personnel should be familiar with problem detection and evaluation, and appropriate remediation actions, as detailed in this EAP. Currently no training is conducted.

The EAP Coordinator manages the training and exercising of the EAP. Below some of the information for these activities are listed.

### **Training**

WCSD annually trains key personnel in the use of this EAP, to understand their role and responsibilities, and if applicable, how to operate any emergency equipment.

Employees are familiarized with WCSD Incident Management Program and WCSD provides the National Incident Management Systems (NIMS) compliant Intermediate and Advanced Incident Command System (ICS) training and position specific training to Incident Support and Incident Management team members. See [Appendix L: WCSD Incident Management Team Guidelines](#) for more information about WCSD Incident Command.

### **Drills, Tests**

On an annual basis, the EAP Coordinator organizes the notification call down drill, which is required by California Government Code Section 8589.5 for the local, county, state, and federal public safety agencies listed on the notification flowchart. This exercise meets the annual exercise required per California Government Code Section 8589.5. During this exercise, the on-site personnel conduct a test of calling the numbers on the Notification Flowchart(s) to ensure their accuracy. During the test, the agencies will review their roles and responsibilities, and any changes in these responsibilities will be documented and updated in the EAP. Additionally, the WCSD and the agencies will verify the primary, secondary and key stakeholder contact information in the Contact Table. The EAP Coordinator will then make sure that the EAP contact information is updated. The updated content will be communicated to all Bookholders (see [Appendix E: Bookholder List](#)). The EAP Coordinator will prepare and file an Exercise Evaluation Report (as applicable) and an Annual EAP Status Report with the Cal OES Dam Safety Planning Division to demonstrate that WCSD has complied with the regulatory and legislative mandates for an exercise.

## **7.11. Alternative Systems of Communication**

WCSD staff currently use personal cell phones. WCSD has alternative systems of communication, available. These include, but are not limited to, cellular phones, email, intranet, and radios. The County EOC also has access alternative sources of communication, such as social media.

Landline and internet are located at the WCSD office and email is a major form of communication. There are also a couple satellite phones and walkie-talkies.

## **7.12. Public Awareness and Communication**

WCSD notifies the public (residents, recreationists, businesses as applicable), who could potentially be impacted by a dam failure, with public safety advisory letters and holds public meetings as deemed applicable. Additionally, WCSD communicates public safety advisory notices to land management agencies with recreation facilities which may be impacted by dam emergency events for posting annually.

## 8. Plan Maintenance

### 8.1. Plan Review

The EAP Coordinator will review/update the EAP notification contacts on a quarterly basis, or sooner when notified of an update that may impact timely communication and response. It is critical to maintain current contact information with all impacted local, county, state, and federal public safety agencies. See [Appendix J: EAP Revision Summary](#) for a list of all Records of EAP revisions.

The EAP will be updated based on the expiration and re-approval of the inundation map(s) or sooner if there is (1) a significant modification to the dam or a critical appurtenant structure as determined by the DSOD or (2) a significant change to downstream development that involves people or property as outlined in Water Code Section 6161, subdivision (e).

Additionally, the EAP in its entirety will be reviewed annually per Government Code 8589.5. The EAP may also be modified as a result of post-incident analyses and/or post-exercise critiques. Additionally, WCSD will update the inundation maps every 10 years as required by California Water Code Section 6161.

To notify WCSD of a change to the EAP, please contact the EAP Coordinator. Contact information is at the front of this EAP.

### 8.2. Distribution

Copies of the EAP are distributed to local, county, state, and federal public safety agencies on the notification flowchart(s). Please see [Appendix E: Bookholder List](#) for a list of all EAP bookholders. The list of bookholders is updated as part of the annual EAP reviews. Each distributed EAP is controlled by a copy number. When outdated EAPs are replaced with new versions, outdated copies must be returned to the EAP Coordinator or be otherwise securely destroyed.

If the EAP is made available electronically, care will be taken to ensure that document control is maintained, such as using a secure web portal accessible only to the entities on the established distribution list. Electronic copies will be in searchable .pdf format.

To request a copy of the EAP for the dam, please contact the EAP Coordinator. Contact information is at the front of this EAP.

## Appendices

Page Intentionally Left Blank



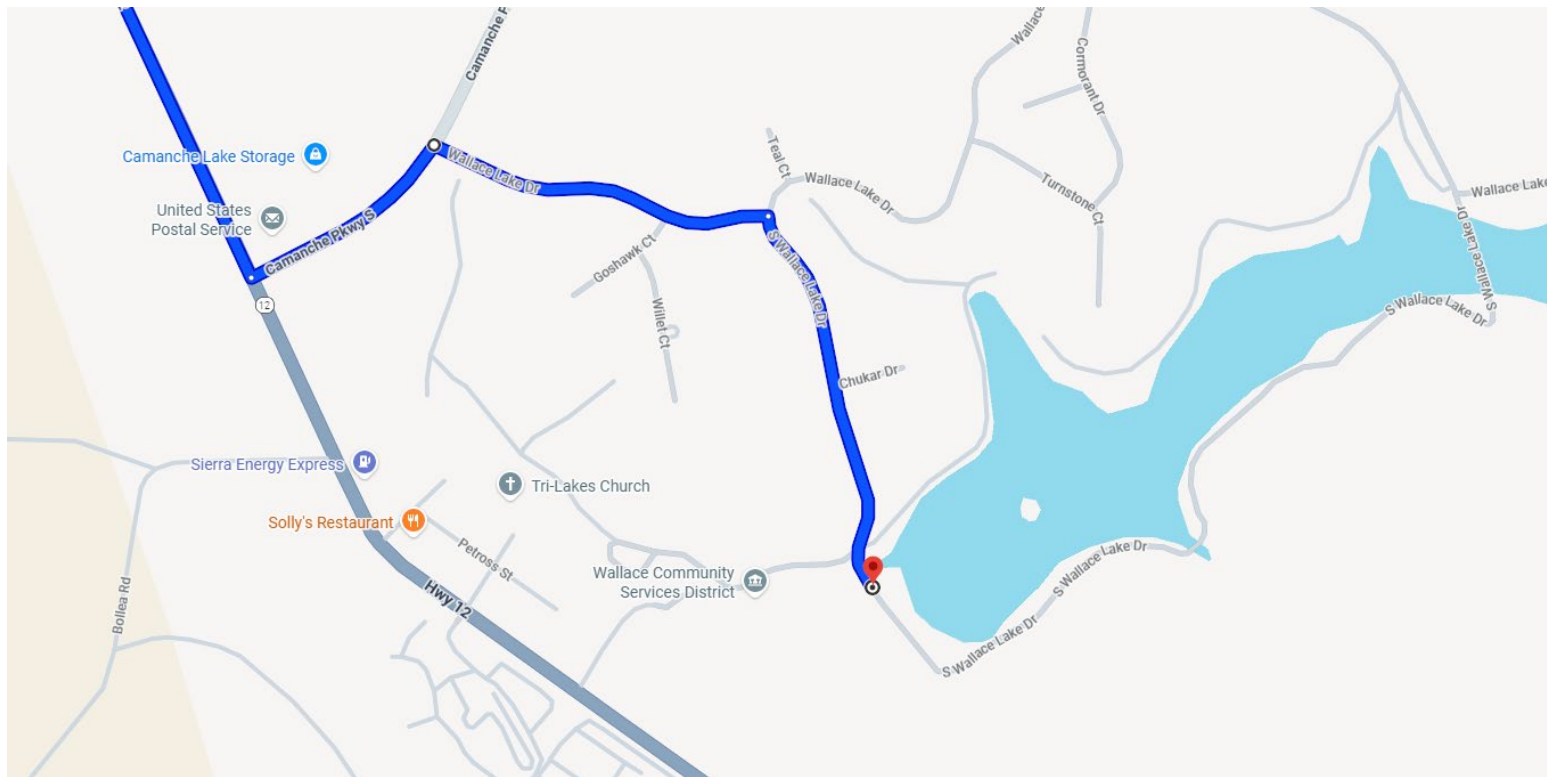
# Appendix A: Maps and Drawings

## Appendix A.1: Access Directions

Description: From Highway 12 (CA-12 E), turn onto Camanche Pkwy S. Then turn onto Wallace Lake Dr and continue onto S Wallace Lake Dr until you arrive at Wallace Lake.

Coordinates: 38.1948, -120.9725

## Appendix A.2: Overview Map to Wallace Dam

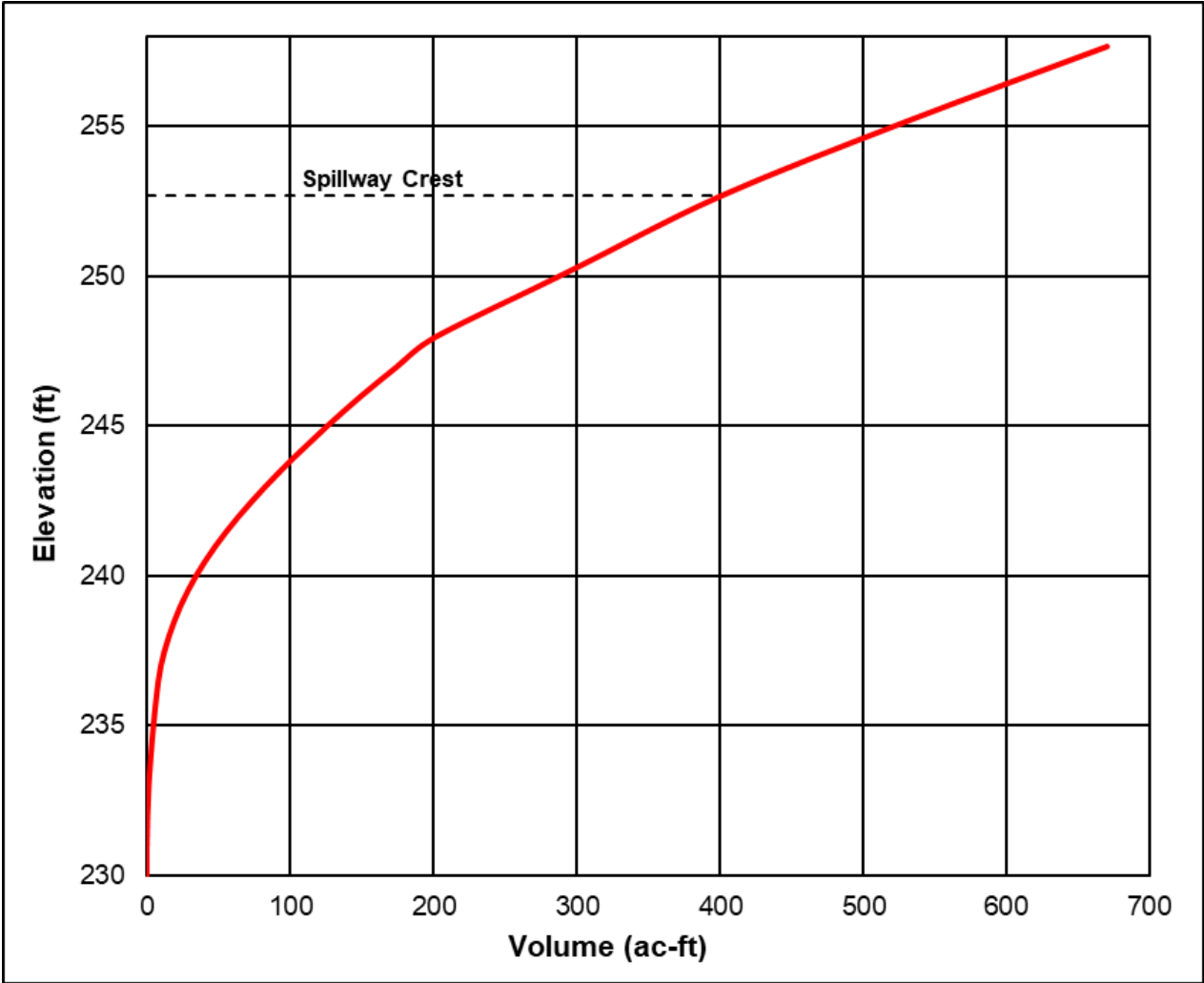




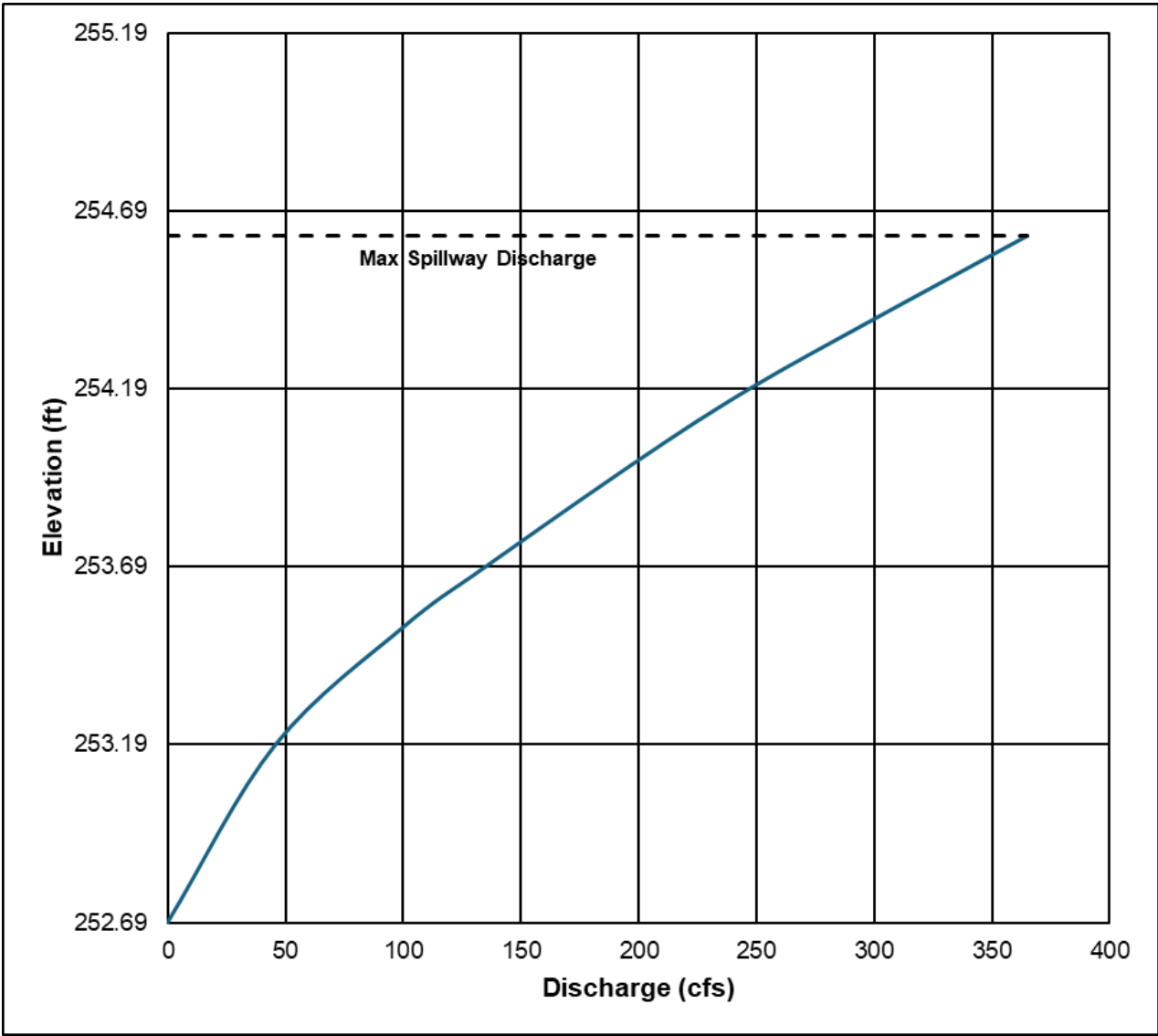
# Appendix B: Rating Curves

Reservoir and spillway rating curves are provided for reference use only. During an EAP activation, the performance of these project features may vary depending on actual conditions at the time of the event.

## Appendix B.1: Reservoir Storage Capacity Curve



Appendix B.2: Spillway Rating Curve



## Appendix C: Contact Table

This table contains supplementary contact information, as well as information regarding key stakeholders. It is intended to be used as a supplemental tool for contacting those listed on the flowchart and additional information to key stakeholders that do not need immediate notification during an emergency.

[illegible]

[illegible]



Letters of acknowledgement and related documentation demonstrating coordination with local, county, state, and federal public safety agencies and other stakeholders noted in this EAP, are located in secured files within WCSD. Feedback was provided by email and confirmed during WCSD virtual seminar with stakeholders. These are available upon request from the WCSD.

[illegible]



## Appendix E: Bookholder List

Distribution of the Wallace Dam EAP ensures appropriate interaction between WCSD and local, county, state, and federal public safety agencies and other stakeholders in preparation for any dam safety incidents at Wallace Dam and its associated water control structures. This EAP is distributed to all notification flowchart entities.

The individuals and organizations responsible for maintaining copies of the EAP are listed below. Requests for additional copies can be made to the EAP Coordinator. WCSD annually reviews the EAP and provides printed updates as necessary to all bookholders. Every five years, full reprints of the EAP will be distributed to all bookholders. Requests for additions or modifications to the EAP may be made through the EAP Coordinator.

Book #	Agency	Primary Contact(s)
2	DSOD	John Tatyosian (916) 820-7798 Jeffrey Kuhl (916) 606-5790

---

Book #	Agency	Primary Contact(s)

## Appendix F: Vendor Contact Information

Contractor	Equipment	Materials for Repairs*	Location	Travel Time, Distance to Dam	24-HR Phone Number
RDK Construction			12899 Locke Rd, Lockeford, CA 95237	16 min	(209) 727-9500
Roughstock Construction			1919 Vista Del Lago Dr Suite 1, Valley Springs, CA 95252	16 min	(209) 694-6939
F & H Construction			1115 E Lockeford St, Lodi, CA 95240	24 min	(209) 931-3738

## Appendix G: Emergency Supplies

EMERGENCY MATERIALS STOCKPILE		
TYPE	LOCATION	COUNTY
Rip-Rap	San Andreas Aggregates 2288 Pool Station Rd, San Andreas, CA 95249	Calaveras
Rip-Rap	George Reed Inc. – Jackson Valley Quarry	Amador

Emergency Supplies		
Item	Amount Required Per (/) Person	Units

# Appendix H: Forms and Log Sheets

These logs should be used in conjunction with the Notification Flowchart.

Once EAP Activation Notification is received, obtain and fill out the information listed on the form. Once you have received and completed the information at the top of the Log, begin your own notifications as outlined in the Notification Flowchart. If the situation requires that you begin notifications prior to obtaining all the information listed on the Log, inform each person that you will call them back with any requested information within the hour.

**BE SURE TO LOG ALL NOTIFICATIONS/UPDATES RECEIVED, ALL CALLS MADE, AND ALL ACTIONS TAKEN.**

Remain accessible and continue to receive and communicate information until you receive notification that the EAP Activation has been terminated, or until you are officially relieved by another representative of your organization.

<b>DAM EMERGENCY CONTACT LOG</b>				
<b>Event Type:</b> <input type="checkbox"/> Drill <input type="checkbox"/> Actual Event				
<b>Emergency Level:</b> <input type="checkbox"/> High Flow <input type="checkbox"/> Non-Failure <input type="checkbox"/> Potential Failure <input type="checkbox"/> Failure is Imminent				
<b>Date:</b>		<b>Time of Call:</b>		
<b>Dam Name:</b>		<b>Reservoir Name:</b>		<b>Dam Owner:</b>
<b>DSOD Dam No.:</b>		<b>DSOD Hazard Classification:</b>		
<b>NID Dam No.:</b>				
<b>Dam Physical Address:</b>		<b>Latitude:</b>		<b>County:</b>
		<b>Longitude:</b>		
<b>Downstream Jurisdictions:</b>		<b>Nearest Town/City Impacted:</b>		<b>Nearest Roadway Impacted:</b>
<b>Waterway (River or Stream)</b>		<b>Dam Type (earth, gravity, arch, etc.)</b>		<b>Current Reservoir Elevation (feet)</b>
<b>Current Storage (acre feet)</b>		<b>Max. Storage</b>		<b>% Full</b>
<b>Current Inflow (cfs)</b>	<b>Current Outflow (cfs)</b>	<b>Estimated Breach Width</b>	<b>Estimated time of actual failure or expected failure</b>	
<b>Emergency Type:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> Earthquake  <input type="checkbox"/> Embankment Cracking or Settlement  <input type="checkbox"/> Embankment Movement  <input type="checkbox"/> Erosion of Spillway  <input type="checkbox"/> Instrumentation reading (Abnormal)         </div> <div style="width: 33%;"> <input type="checkbox"/> Outlet System Failure  <input type="checkbox"/> Sabotage/Vandalism  <input type="checkbox"/> Sand Boils  <input type="checkbox"/> Security Threats  <input type="checkbox"/> Seepage, Springs, Piping         </div> <div style="width: 33%;"> <input type="checkbox"/> Sinkholes  <input type="checkbox"/> Storm Event  <input type="checkbox"/> Other         </div> </div>				
<b>Description of Situation:</b>				
<b>When/How Event Was Detected:</b>				<b>Observer in Position:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Action(s) Taken:</b> (Check all that apply, then describe details if necessary.) <input type="checkbox"/> Watershed Personnel Dispatched to Inspect <input type="checkbox"/> Initial Inspection Complete <input type="checkbox"/> Engineer Dispatched to Inspect <input type="checkbox"/> Engineer Inspection Complete <input type="checkbox"/> Initiated EAP Notifications <input type="checkbox"/> Other Emergency Actions Initiated  Details:				

Issued 05/11/26  
**NOT FOR PUBLIC RELEASE**

Appendix H-3  
Forms and Log Sheets

# **DAM INCIDENT – CALIFORNIA STATE WARNING CENTER** (will be used during notification to the CSWC)

<b>EVENT TYPE:</b>	<input type="radio"/> DRILL <input type="radio"/> ACTUAL EVENT		
<b>DATE:</b>		<b>TIME:</b>	
<b>CALLER INFORMATION</b>			
<b>NAME/AGENCY:</b>		<b>PHONE #:</b>	
<b>ALTERNATE CONTACT:</b>		<b>PHONE #:</b>	
<b>DAM INFORMATION</b>			
<b>DAM NAME:</b>		<b>DSOD DAM #:</b>	
<b>DSOD HAZARD CLASSIFICATION:</b>			
<b>LOCATION OF DAM</b>			
<b>DSOD REGION:</b> <input type="radio"/> NORTHERN <input type="radio"/> CENTRAL <input type="radio"/> SOUTHERN			
<b>PHYSICAL ADDRESS:</b>			
<b>LATITUDE:</b>		<b>LONGITUDE:</b>	
<b>COUNTY:</b>		<b>DOWNSTREAM JURISDICTIONS:</b>	
<b>NEAREST CITY OR POPULATED AREA:</b>			
<b>NEAREST OR AFFECTED HIGHWAY OR CROSS ROADS:</b>			
<b>RIVER OR CREEK THAT FLOWS INTO RESERVOIR:</b>			
<b>SITUATION</b>			
<b>ACTIVATION OF EAP:</b>	<input type="radio"/> Yes <input type="radio"/> No		
<b>EMERGENCY LEVEL:</b>	<input type="radio"/> High Flow <input type="radio"/> Non-Failure <input type="radio"/> Potential Failure <input type="radio"/> Imminent Failure		
<b>EMERGENCY TYPE:</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Earthquake  <input type="checkbox"/> Embankment Cracking or Settlement  <input type="checkbox"/> Embankment Movement  <input type="checkbox"/> Erosion of Spillway  <input type="checkbox"/> Instrumentation Reading (Abnormal)  <input type="checkbox"/> Outlet System Failure  <input type="checkbox"/> Sabotage/Vandalism         </div> <div style="width: 50%;"> <input type="checkbox"/> Sand Boils  <input type="checkbox"/> Security Threats  <input type="checkbox"/> Seepage, Springs, Piping  <input type="checkbox"/> Sinkholes  <input type="checkbox"/> Storm Event  <input type="checkbox"/> Other: List Below         </div> </div>			
<b>OTHER:</b>			
<b>RESERVOIR LEVEL:</b>	<input type="checkbox"/> Full <input type="checkbox"/> Partially Full <input type="checkbox"/> Empty		
	<b>Approximate % Full (Acre-Feet):</b>		
<b>WHEN/HOW EVENT WAS DETECTED:</b>			
<b>OBSERVER IN POSITION:</b>	<input type="radio"/> Yes <input type="radio"/> No		
<b>ADDITIONAL DETAILS:</b>			



**Emergency Termination Log**

<b>Dam Name:</b>	<b>County:</b>
<b>Dam Location:</b>	<b>Stream/River:</b>
<b>Date/Time:</b>	
<b>Weather Conditions:</b>	
<b>General Description of Emergency Situation:</b>	
<b>Area(s) of Dam Affected:</b>	
<b>Extent of Damage to Dam and Possible Causes:</b>	
<b>Effect on Dam Operation:</b>	
<b>Initial Reservoir Elevation/Time:</b> <b>Maximum Reservoir Elevation/Time:</b> <b>Final Reservoir Elevation/Time:</b>	
<b>Description of Area Flooded Downstream/Damage/Loss of Life:</b>	
<b>Justification for Termination of Dam Safety Emergency:</b>	
<b>Other Data and Comments:</b>	
<b>Report Prepared By (Printed Name and Signature):</b> <b>Date:</b>	

## **After Action Report (AAR) Template**

### **Background**

#### **Event Details**

Type of Event:

Location:

Incident Period:

Brief Description of Event:

### **Response Activities**

### **Summary of Successes**

### **Summary of Recommended Improvements**

### **Organizations Contributing to this Report**

# Appendix I: Acronyms

Acronym	Meaning
AAR	After Action Report
Ac-ft	Acre-Feet
BLM	United States Department of the Interior, Bureau of Land Management
BOS	Board of Supervisors
CAL FIRE	California Department of Forestry and Protection
Cal OES	California Governor's Office of Emergency Services
Caltrans	California Department of Transportation
CAO	Chief Administrations Officer
CFS	Cubic Feet Per Second
CHP	California Highway Patrol
CSWC	California State Warning Center
DSOC	Dam Safety Observation Checklist
DSOD	California Department of Water Resources, Division of Dam Safety
DWR	California Department of Water Resources
EAP	Emergency Action Plan
EAS	Emergency Alert System
EMA	Emergency Management Agency
EOC	Emergency Operations Center
FBI	Federal Bureau of Investigations
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FOC	Department of Water Resources, Flood Operations Center
FW	Fair Weather
GETS	Government Emergency Telecommunications Service
IC	Incident Commander
ICS	Incident Command System
IDF	Inflow Design Flood
LADWP	Los Angeles Department of Water and Power
NIMS	National Incident Management Systems
NWS	United States Department of Commerce, National Weather Service
OES	Office of Emergency Services
PIO	Public Information Officer
PMF	Probable Maximal Flood
SCADA	Supervisor Control And Data Acquisition
TMC	Transportation Management Center
USFS	United States Department of Agriculture, Forest Service

---

USGS	United States Department of the Interior, Geological Survey
WCSD	Wallace Community Services District
WPS	Wireless Priority Service

# Appendix J: EAP Revision Summary

Date	Section	Section Name	Updates
			WCSD will record future updates to the EAP here.

# Appendix K: Notification Messages

## High Flow Script

- “This is \_\_\_\_\_ (identify yourself: name, position, organization).
- We have a condition at Wallace Dam. The condition DOES NOT currently threaten the safety of the dam.
- Currently, the conditions at the dam are as follows: \_\_\_\_\_ (provide the flow of water at the dam).
- Flows are expected to (increase/decrease) to a rate of \_\_\_\_\_ cubic feet per second, by \_\_\_\_\_ (date and time). (If known, provide expected time the downstream areas are expected to flood and if evacuation is required.)
- We have activated the Emergency Action Plan for this dam and are determining this to be a High Flow condition.
- We are implementing predetermined actions to respond to a developing situation that DOES NOT currently threaten the safety of the dam.
- We will provide an update status report at \_\_\_\_\_ time (determine the time). However, we will update you before that time if the situation is resolved or the emergency level changes.
- Remember to log all calls and actions in the Dam Emergency Incident Log.
- I can be contacted at the following number \_\_\_\_\_. If you cannot reach me, please call the following alternative number \_\_\_\_\_.”

## Non-Failure Script

- “This is \_\_\_\_\_ (identify yourself: name, position, organization).
- We have a condition at Wallace Dam. The condition DOES NOT currently threaten the safety of the dam.
- Currently, the situation at the dam is as follows: \_\_\_\_\_ (describe the developing situation).
- We have activated the Emergency Action Plan for this dam and are determining this to be a Non-Failure condition.
- We are implementing predetermined actions to respond to a developing situation that DOES NOT currently threaten the safety of the dam.
- We will provide an update status report at \_\_\_\_\_ time (determine the time). However, we will update you before that time if the situation is resolved or the emergency level changes.
- Remember to log all calls and actions in the Dam Emergency Incident Log.
- I can be contacted at the following number \_\_\_\_\_. If you cannot reach me, please call the following alternative number \_\_\_\_\_.”

## Potential Failure Script

- “This is \_\_\_\_\_ (identify yourself: name, position, organization).
- We have a condition at Wallace Dam. We have activated the Emergency Action Plan for this dam and are determining this to be a Potential Failure condition.

- We are implementing predetermined actions to respond to a rapidly developing situation that COULD result in dam failure.
- Please prepare to evacuate the area along low-lying portions of Bear Creek.
- The dam could potentially fail as early as \_\_\_\_\_ (estimated time and date).
- Refer to the inundation map in your copy of the Emergency Action Plan.
- We will provide an update status report at \_\_\_\_\_ time (determine the time). However, we will update you before that time if the situation is resolved or the emergency level changes.
- Remember to log all calls and actions in the Dam Emergency Incident Log.
- I can be contacted at the following number \_\_\_\_\_. If you cannot reach me, please call the following alternative number \_\_\_\_\_."

**Imminent Failure Script**

- "This is an EMERGENCY. This is \_\_\_\_\_ (identify yourself: name, position, organization).
- The Wallace Dam is failing.
- We have activated the Emergency Action Plan for this dam and are determining this to be an Imminent Failure condition. Refer to the inundation map in your copy of the Emergency Action Plan.
- The downstream area must be EVACUATED IMMEDIATELY. Repeat, Wallace Dam is failing; evacuate the area along low-lying portions of Bear Creek.
- We are implementing predetermined actions for an Imminent Failure condition.
- Remember to log all calls and actions in the Dam Emergency Incident Log.
- I can be contacted at the following number \_\_\_\_\_. If you cannot reach me, please call the following alternative number \_\_\_\_\_.
- The next status report will be provided in approximately 30 minutes.

# **Appendix L: WCSD Incident Management Team Guidelines**

This document is updated by WCSD and describes the actions WCSD takes for all emergency situations, including dam emergencies.



# Appendix M: Posting the EAP

Up-to-date copies of the flowchart and notification list are posted at the following locations:

# Appendix N: Emergency Contact List

# Appendix O: DSOD Approval Letter

**DEPARTMENT OF WATER RESOURCES**

DIVISION OF SAFETY OF DAMS  
2720 GATEWAY OAKS DRIVE, SUITE 300  
SACRAMENTO, CA 95833-3500



**April 28, 2026**

Mr. Steve Martin, President  
Wallace Community Services District  
Post Office Box 398  
Wallace, California 95254

Wallace Dam, No. 499  
Calaveras County

Dear Mr. Martin:

The Division of Safety of Dams (DSOD) has reviewed the inundation map submitted for Wallace Dam. This inundation map was submitted in response to a Notice of Violation dated May 13, 2025 (Case Number M2025-007). It was determined that the dam has no critical appurtenant structures (CAS) and the map listed below is in substantial compliance with the requirements of Title 23, Division 2, Chapter 1, Article 6 of the California Code of Regulations. Therefore, the following inundation map is approved:

1. Main Dam (sunny day failure scenario) map dated September 16, 2025.

The approved map will be made publicly available as required by section 6161(c) of the California Water Code. In accordance with the Notice of Violation, an emergency action plan (EAP), based on the DSOD approved inundation map, must be submitted electronically to both DSOD at [damsafety@water.ca.gov](mailto:damsafety@water.ca.gov) and the California Governor's Office of Emergency Services at [EAP@caloes.ca.gov](mailto:EAP@caloes.ca.gov) within 90 days of the date of this approval letter. Enclosed is DSOD's Emergency Contacts Sheet for the dam to aid in the development of the EAP.

As communicated with your consultant Ms. Susan Cundiff, Senior Hydraulic Engineer with Verdantas, on January 29, 2026, DSOD has revised the downstream hazard potential classification of Wallace Dam from "Significant" to "High" as failure of the main dam under a full reservoir condition would inundate residential or business structures and has the potential to cause loss of at least one human life. Hazard classifications are defined in Title 23, section 335.4 of the Regulations. These hazard classifications are based on the anticipated downstream impacts from a sudden dam failure and are not related to the condition of the dam or its appurtenant structures. DSOD will notify you if the downstream hazard classification is updated in the future.

Mr. Martin  
April 28, 2026  
Page 2

Pursuant to section 6161(e) of the Water Code, the EAP and inundation maps must be updated no less frequently than every 10 years, and sooner under conditions that include, but are not limited to, the following: (1) a significant modification to the dam or a critical appurtenant structure as determined by DSOD, or (2) a significant change to downstream inundation area that involves people and property. Therefore, the approved map will expire on September 16, 2035. The updated map must be submitted for DSOD's review and approval at least six months prior to the expiration date.

If you have any questions or need additional information, you may contact Mr. Chen at (916) 639-4478 or Re-evaluation Engineering Branch Manager Ariya Balakrishnan at (916) 607-5439. If you have any questions related to enforcement, you may contact the Enforcement Officer John Tatyosian at (916) 820-7798.

Sincerely,



Erik J. Malvick, Ph.D., P.E., G.E.  
Division Manager  
Division of Safety of Dams

Enclosure

cc: Mr. Casey Meredith, Program Manager I  
Dam Safety Planning Division  
California Governor's Office of Emergency Services  
3650 Schriever Avenue  
Mather, California 95655

Ms. Susan Cundiff  
Senior Hydraulic Engineer, Sr. PM  
Verdantas  
315 W Oak Street, Suite 620  
Fort Collins, Colorado 80521

State of California  
California Natural Resources Agency  
DEPARTMENT OF WATER RESOURCES



## DIVISION OF SAFETY OF DAMS EMERGENCY CONTACTS SHEET

### Wallace Dam, No. 499-0

38.1948°N, 120.9725°W

Calaveras County

Area 6 | NID# CA01314

#### Division of Safety of Dams Office (During business hours)

##### **Andrew Mangney**

Field Engineering Branch Manager

Office **(916) 565-7800**

##### Mailing Address

Division of Safety of Dams  
2720 Gateway Oaks Dr., Suite 300  
Sacramento, CA 95833

#### Division of Safety of Dams Contacts (After business hours)

##### **Param Dhillon**

Primary Contact, Area Engineer

Cell **(916) 835-7064**

##### **Timothy Jimenez**

Secondary Contact, Regional Engineer

Cell **(916) 761-0892**

#### Contact Cal OES if the Safety of Dams is unreachable

##### **California Warning Center**

24 hours a day, seven days a week

**(916) 845-8911**

#### Local Authorities

# 911

Notify local Emergency Management Agencies

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

**FOR OFFICIAL USE ONLY**  
**THIS NOTICE MUST BE READILY AVAILABLE DURING AN EMERGENCY**

Printed 4/22/2026

# Appendix P: Inundation Maps

## Quick Reference: Flood Flow and Time Estimates

Flow discharges into Bear Creek. Under a Sunny Day scenario, the flood will be contained within the channel approximately 11.4 miles downstream along Bear Creek.

*Table 0-1: Inundation Quick Reference, Fair Weather Failure*

Description	Distance from Dam <sup>1</sup> (ft)	Time to Peak Depth <sup>2</sup> (hh:mm)	Maximum Depth <sup>3</sup> (ft)	Cross Section Maximum Velocity <sup>4</sup> (ft/s)	Maximum Flow <sup>5</sup> (cfs)	Detailed Map Sheet
Station	00+00	00:00	10.4	20.0	14,300	1
	50+00	00:43	9.0	10.0	7,500	1 & 2
	100+00	01:18	9.6	7.4	4,500	2
	150+00	01:42	8.9	5.1	2,880	3
	200+00	02:54	8.4	5.9	2,190	3
	250+00	03:18	8.3	4.3	1,760	4
	300+00	04:24	5.3	5.4	1,450	5
	350+00	05:18	6.3	1.9	1,250	5
	400+00	06:18	6.8	1.7	1,080	6
	450+00	07:48	5.6	4.0	850	6 & 7
	500+00	08:42	6.0	3.8	700	7
	550+00	09:12	7.5	3.7	660	7
	600+00	10:12	6.1	1.9	530	8
	650+00	10:54	8.5	3.9	490	8

--- = not applicable; cfs = cubic feet per second; ft = feet; ft/s = feet per second; hh = hours; mm = minutes

<sup>1</sup> All cross-section distances in the table are from the dam of interest

<sup>2</sup> The difference between the time at which the maximum water depth is achieved and the time of dam failure.

<sup>3</sup> The maximum depth that occurs at the cross section as measured from the ground surface.

<sup>4</sup> The maximum velocity that occurs at the cross section (velocity over the entire cross section).

<sup>5</sup> The maximum flow rate integrated over the length of the cross sections.

## Inundation Maps

The following overview maps and inundation maps have been prepared for the following dams and are included in this EAP. The inundation area can also be seen on and inundation maps can be downloaded from DSOD's California Dam Breach Inundation Maps website <https://fmds.water.ca.gov/maps/damim/> by searching "Wallace Dam – DSOD #499".

**Table 0-2: Inundation Maps**

Dam	Inundation Maps	Total Map Sheets
Inundation Map for Sunny Day Weather Hypothetical Failure Depth (ft)	September 2025, Sheets 1-8	8

### Notes

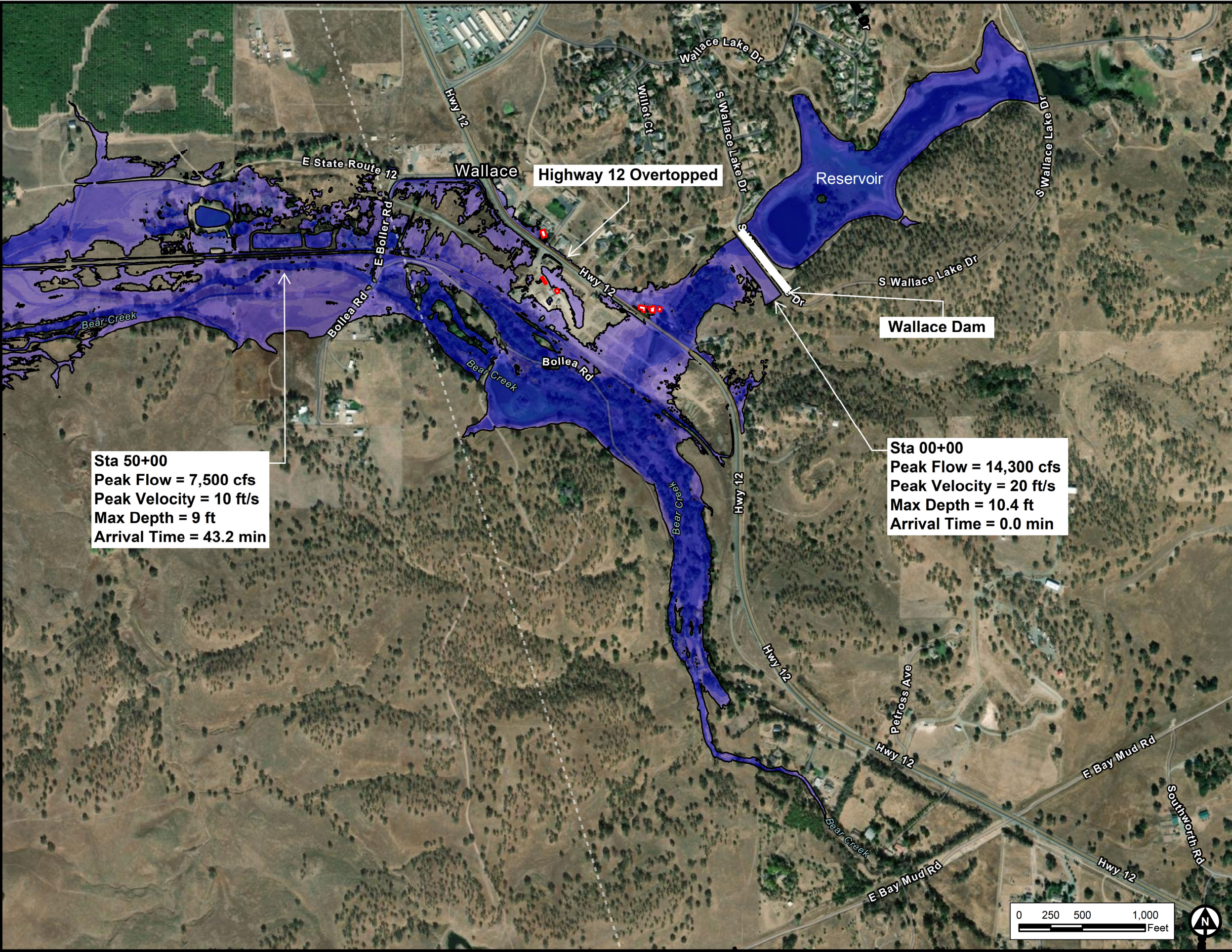
\* The limits of flooding and flood wave travel times are approximate and should be used only as a guideline for emergency response planning. Actual areas inundated will depend on actual failure conditions and may differ from areas shown on the map.

\* The results presented herein do not reflect the structural integrity of any project or its appurtenant structures. The results shown are approximate and should be used as a guideline for emergency response and preparation purposes.

\* Structures are shown in the aerial photo on the maps but may not clearly display all possible structures potentially within the inundation limits.

\* Security-sensitive infrastructure may not be shown on these maps.





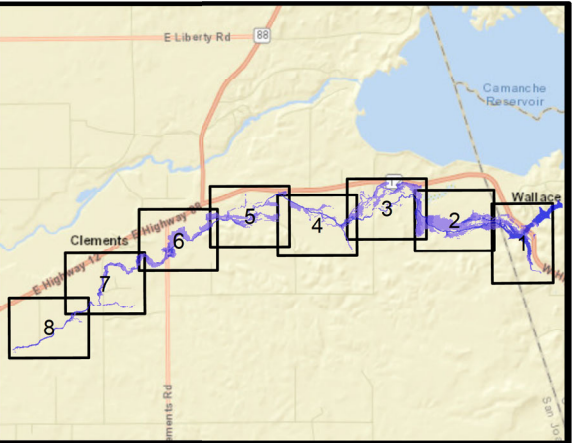
Sta 50+00  
Peak Flow = 7,500 cfs  
Peak Velocity = 10 ft/s  
Max Depth = 9 ft  
Arrival Time = 43.2 min

Highway 12 Overtopped

Reservoir

Wallace Dam

Sta 00+00  
Peak Flow = 14,300 cfs  
Peak Velocity = 20 ft/s  
Max Depth = 10.4 ft  
Arrival Time = 0.0 min



**Legend**

- 1-ft Inundation Extents
- Inundated Building
- Fire Station
- School

**Depth**

- 1 - 2
- 2 - 3
- > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.



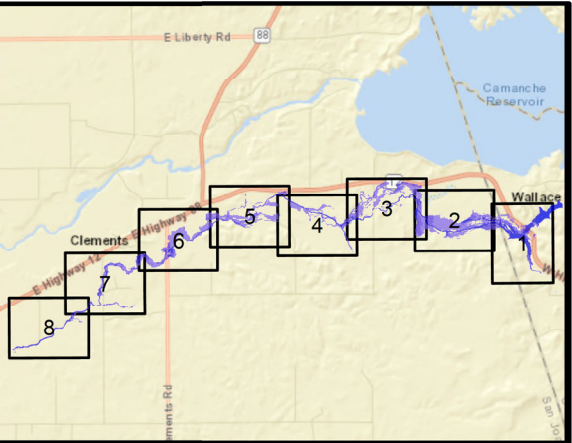
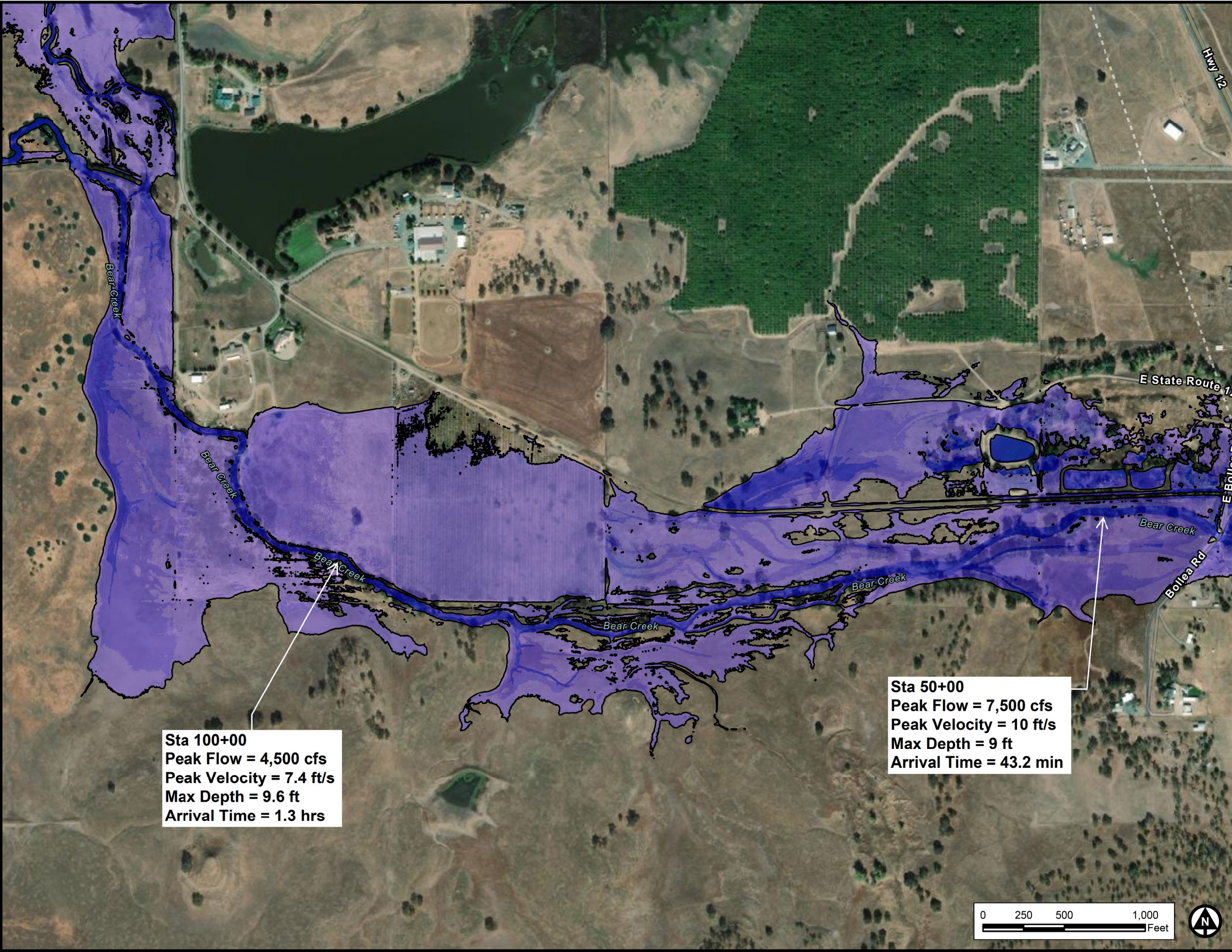
Map Creation: 9/16/25 | Simulation Date: 9/10/25

**verdantas**

Wallace, Calaveras County,  
California  
**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**  
Sunny Day Breach

Panel  
**1**





**Legend**

1-ft Inundation Extents

Inundated Building

Fire Station

School

**Depth**

1 - 2

2 - 3

> 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.



Map Creation: 9/16/25 | Simulation Date: 9/10/25

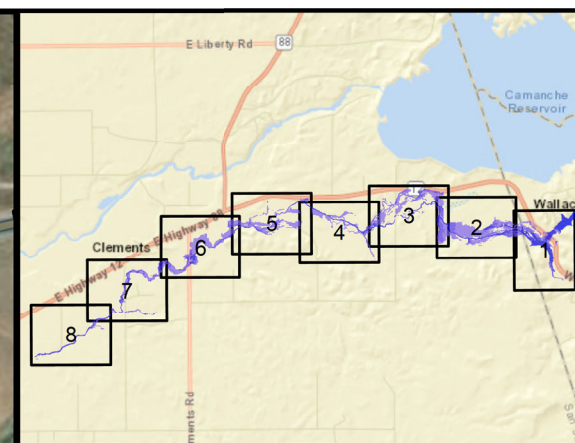
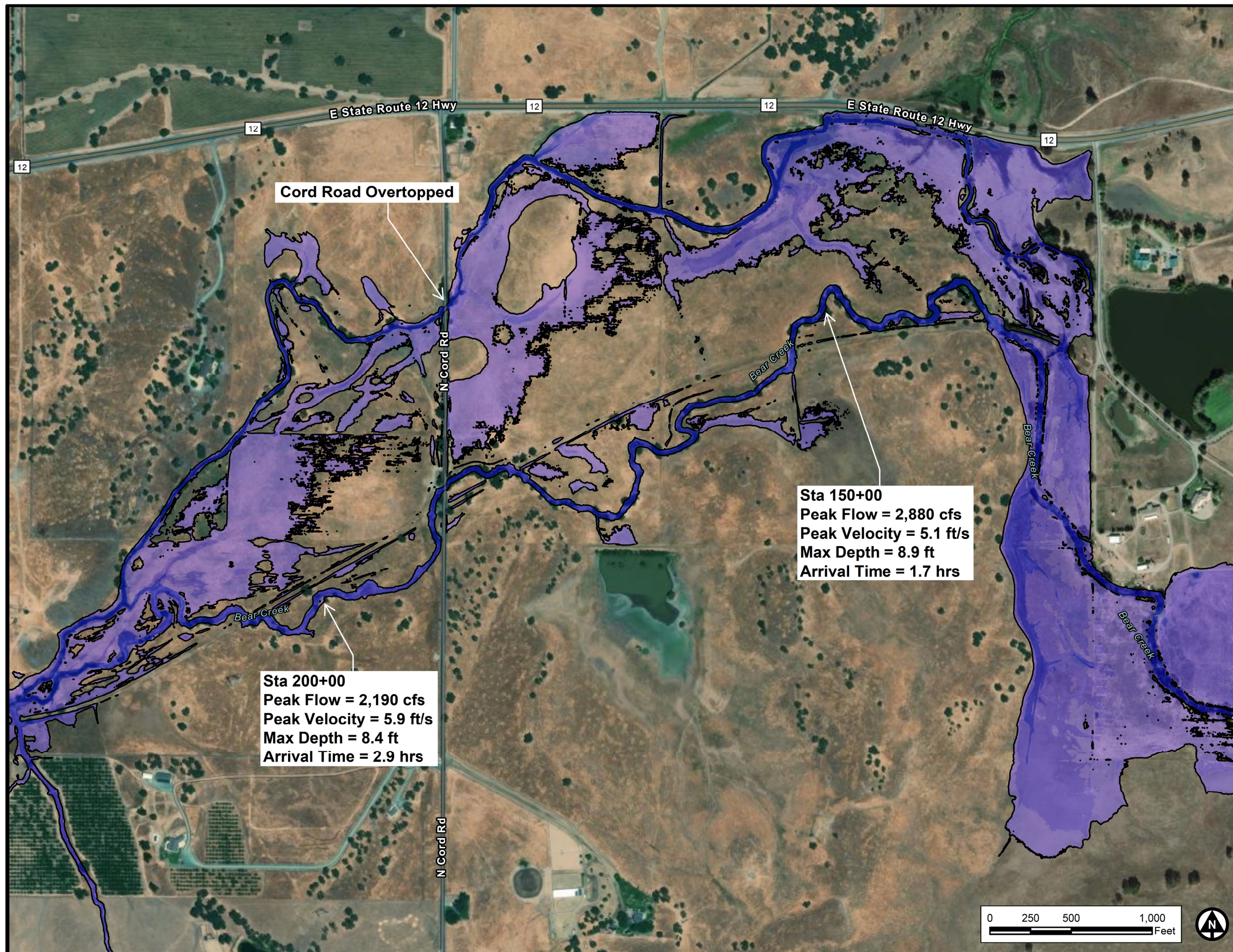


Wallace, Calaveras County,  
California





**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**

Sunny Day Breach








## Legend

-  1-ft Inundation Extents
-  Inundated Building
-  Fire Station
-  School

## Depth

-  1 - 2
-  2 - 3
-  > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.



Map Creation: 9/16/25 | Simulation Date: 9/10/25

# verdantas

Wallace, Calaveras County,  
California

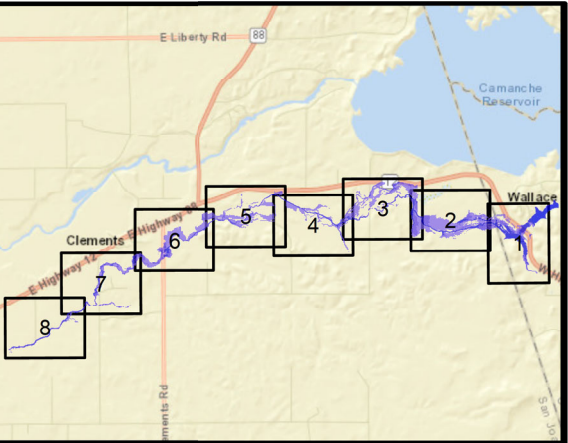
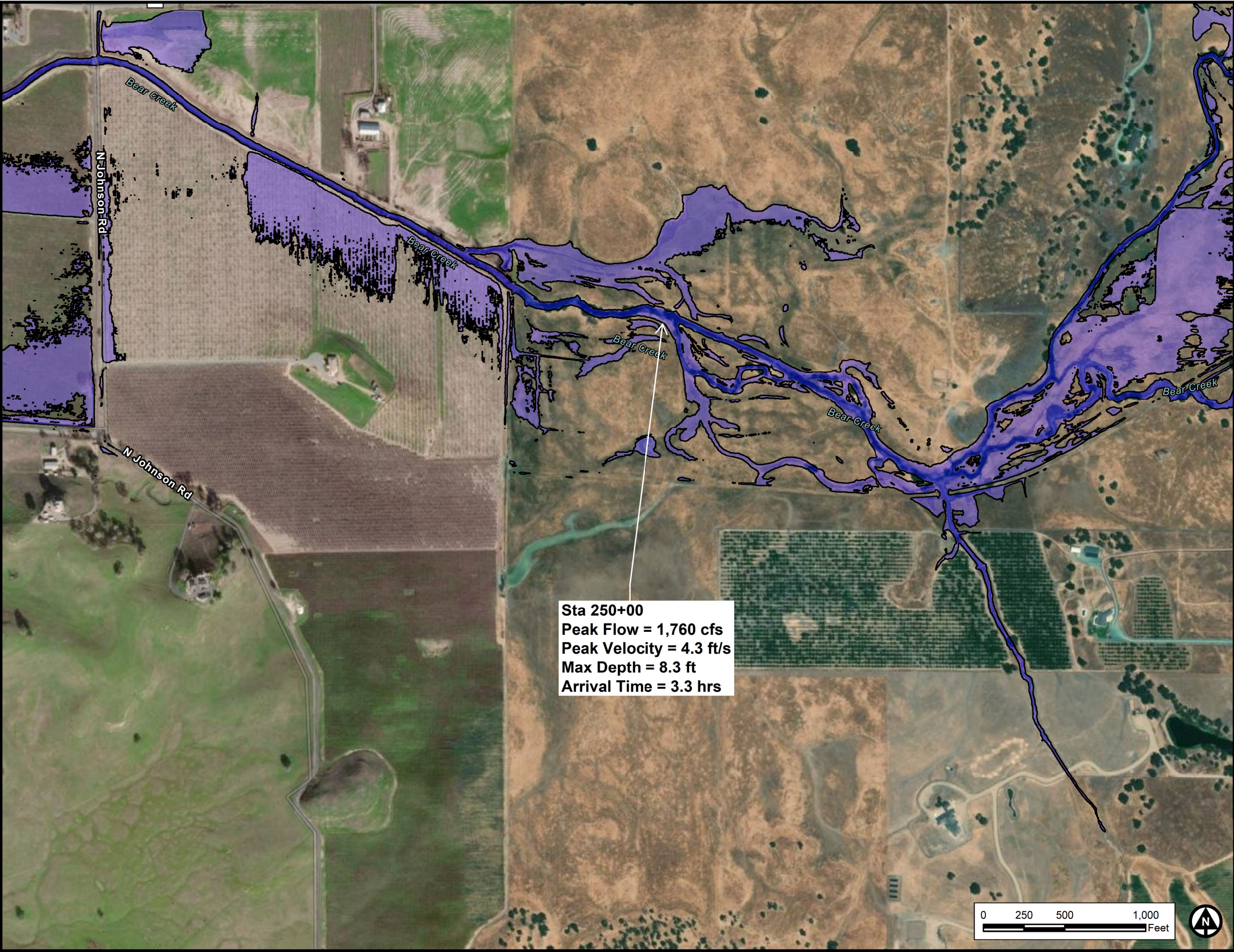
**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**

Sunny Day Breach

Panel

**3**





- Legend**
- 1-ft Inundation Extents
  - Inundated Building
  - Fire Station
  - School

- Depth**
- 1 - 2
  - 2 - 3
  - > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
 (B) Security-sensitive infrastructure may not be shown on this map.



Map Creation: 9/16/25 | Simulation Date: 9/10/25

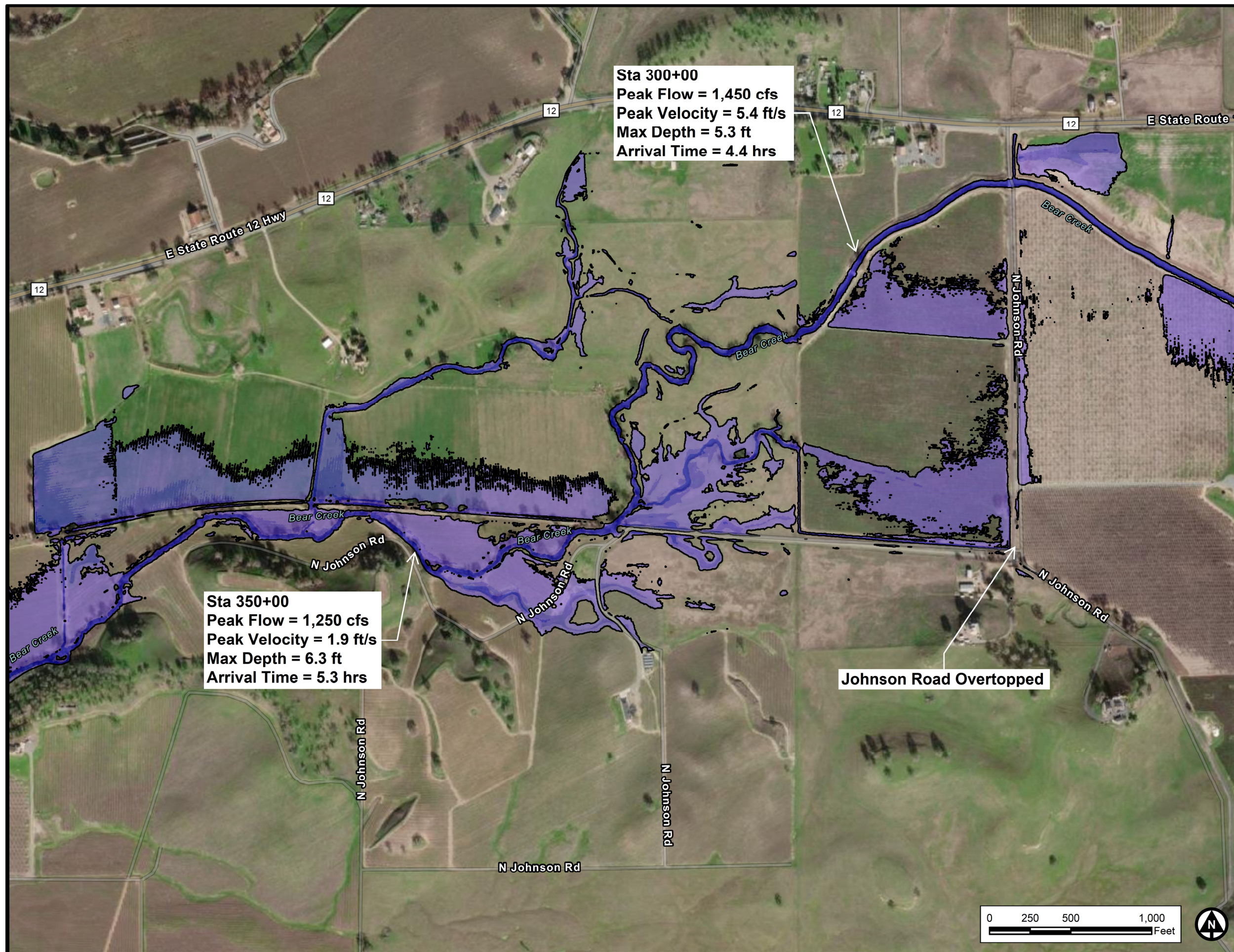
**verdantas**

Wallace, Calaveras County,  
 California  
**Dam Breach  
 Inundation Results**  
**Wallace Lake Dam**  
**DWR No. 499 (CA01314)**  
 Sunny Day Breach

Panel  
**4**



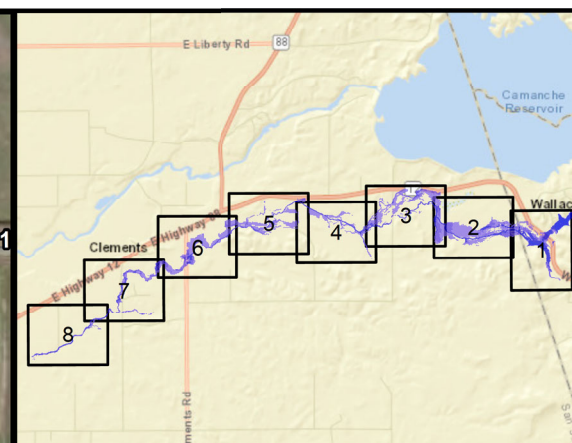




Sta 300+00  
Peak Flow = 1,450 cfs  
Peak Velocity = 5.4 ft/s  
Max Depth = 5.3 ft  
Arrival Time = 4.4 hrs

Sta 350+00  
Peak Flow = 1,250 cfs  
Peak Velocity = 1.9 ft/s  
Max Depth = 6.3 ft  
Arrival Time = 5.3 hrs

Johnson Road Overtopped



## Legend

- 1-ft Inundation Extents
- Inundated Building
- Fire Station
- School

## Depth

- 1 - 2
- 2 - 3
- > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.



Map Creation: 9/16/25 | Simulation Date: 9/10/25

**verdantas**

Wallace, Calaveras County,  
California

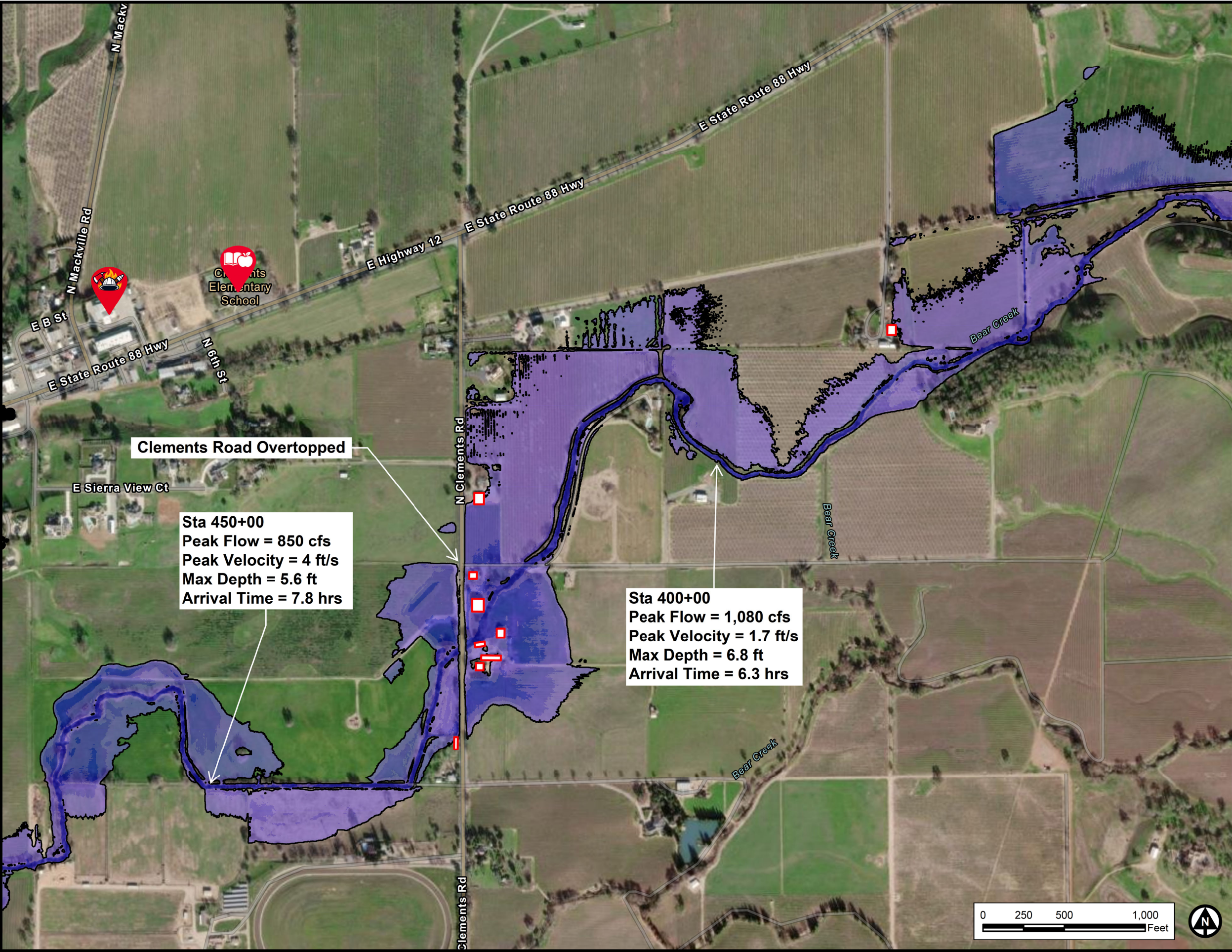
**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**

Sunny Day Breach

Panel

**5**

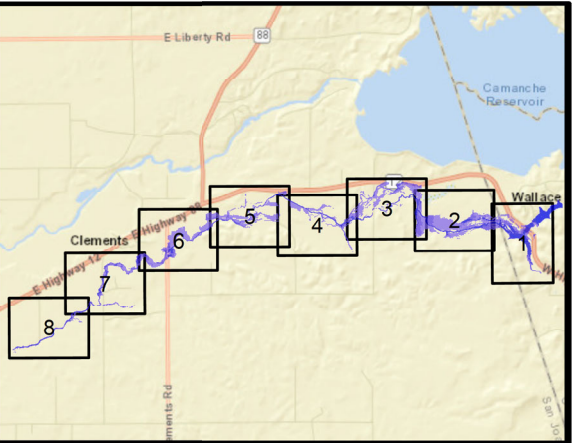




Clements Road Overtopped

Sta 450+00  
Peak Flow = 850 cfs  
Peak Velocity = 4 ft/s  
Max Depth = 5.6 ft  
Arrival Time = 7.8 hrs

Sta 400+00  
Peak Flow = 1,080 cfs  
Peak Velocity = 1.7 ft/s  
Max Depth = 6.8 ft  
Arrival Time = 6.3 hrs



Legend

- 1-ft Inundation Extents
- Inundated Building
- Fire Station
- School

Depth

- 1 - 2
- 2 - 3
- > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.

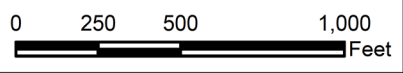


Map Creation: 9/16/25 | Simulation Date: 9/10/25

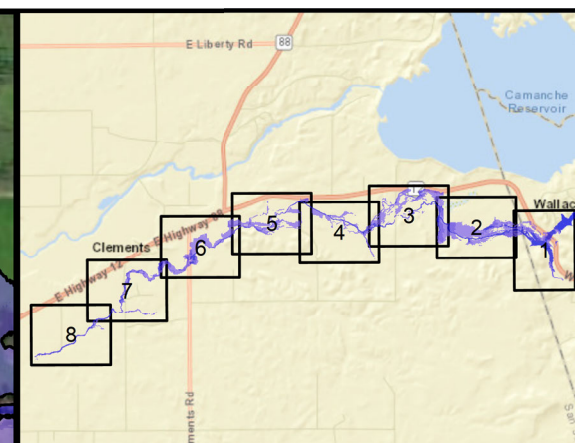
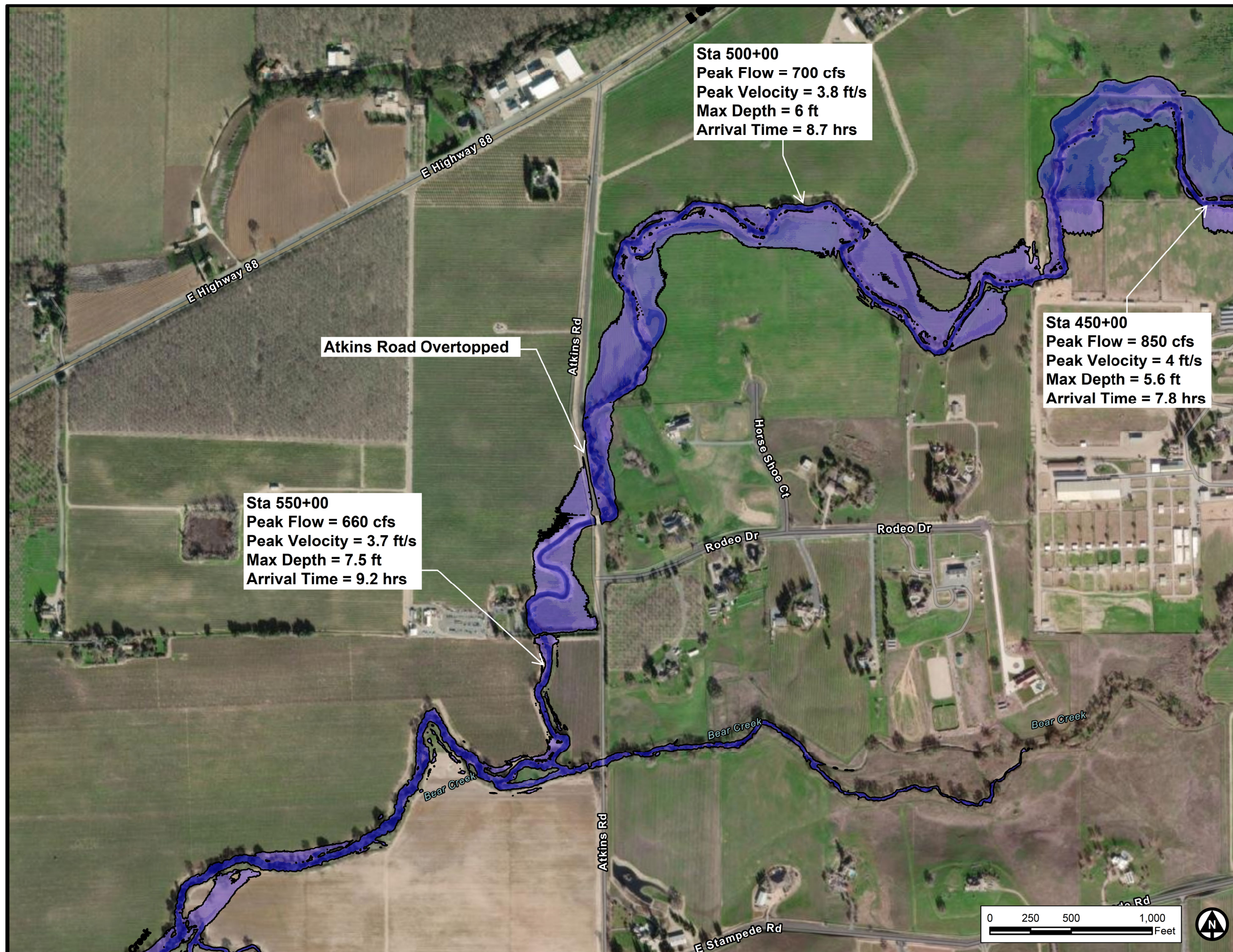
verdantas

Wallace, Calaveras County,  
California  
**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**  
Sunny Day Breach





Panel  
**6**








## Legend

-  1-ft Inundation Extents
-  Inundated Building
-  Fire Station
-  School

## Depth

-  1 - 2
-  2 - 3
-  > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.



Map Creation: 9/16/25 | Simulation Date: 9/10/25

# verdantas

Wallace, Calaveras County,  
California

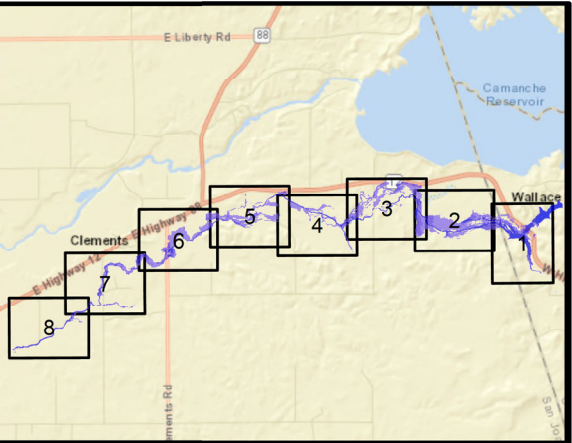
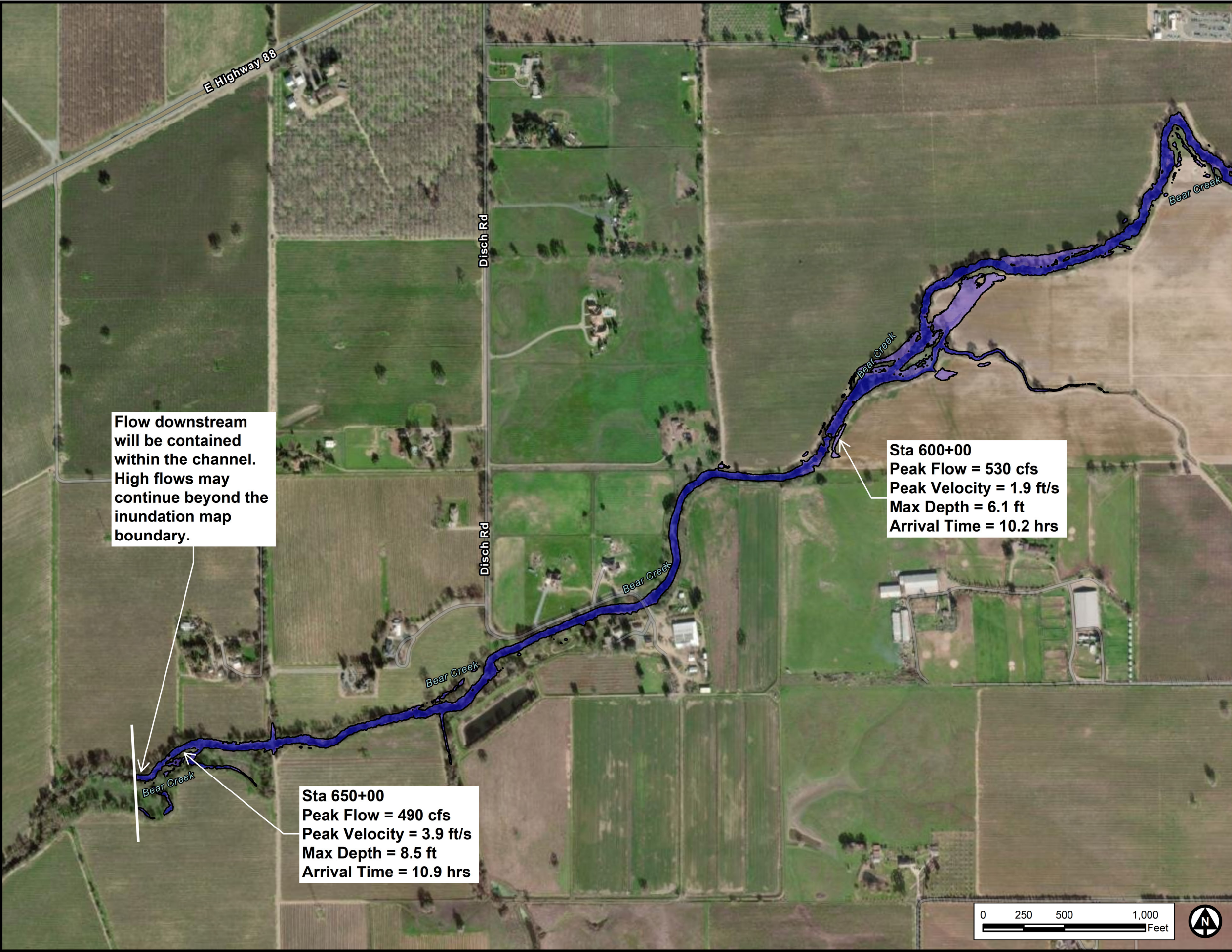
**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**

Sunny Day Breach

Panel

**7**





**Legend**

- 1-ft Inundation Extents
- Inundated Building
- Fire Station
- School

**Depth**

- 1 - 2
- 2 - 3
- > 3

(A) The information shown is approximate and should be used as a guideline for emergency preparation.  
(B) Security-sensitive infrastructure may not be shown on this map.



Map Creation: 9/16/25 | Simulation Date: 9/10/25



Wallace, Calaveras County,  
California

**Dam Breach  
Inundation Results  
Wallace Lake Dam  
DWR No. 499 (CA01314)**

Sunny Day Breach

