


- Project Facilities**
- ▲ Powerhouse
 - Dam
 - - - Tunnel
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Inaccessible Stream Segments
 - Water Body
- Aquatic Habitat Mapping**
- 2005 - 2006 Mesohabitat and 2007 - 2008 Barrier Mapping
 - 2007 Mapping from 2005 Aerial Imagery
 - Stream Segments with Low Quality 2005 Aerial Imagery
 - Qualitative Stream Surveys
 - 2007 Low Altitude Helicopter Survey

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Middle Fork American River Project

Map AQ 6-1

**Fish Passage Barrier
Survey Methodology**

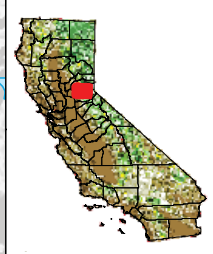


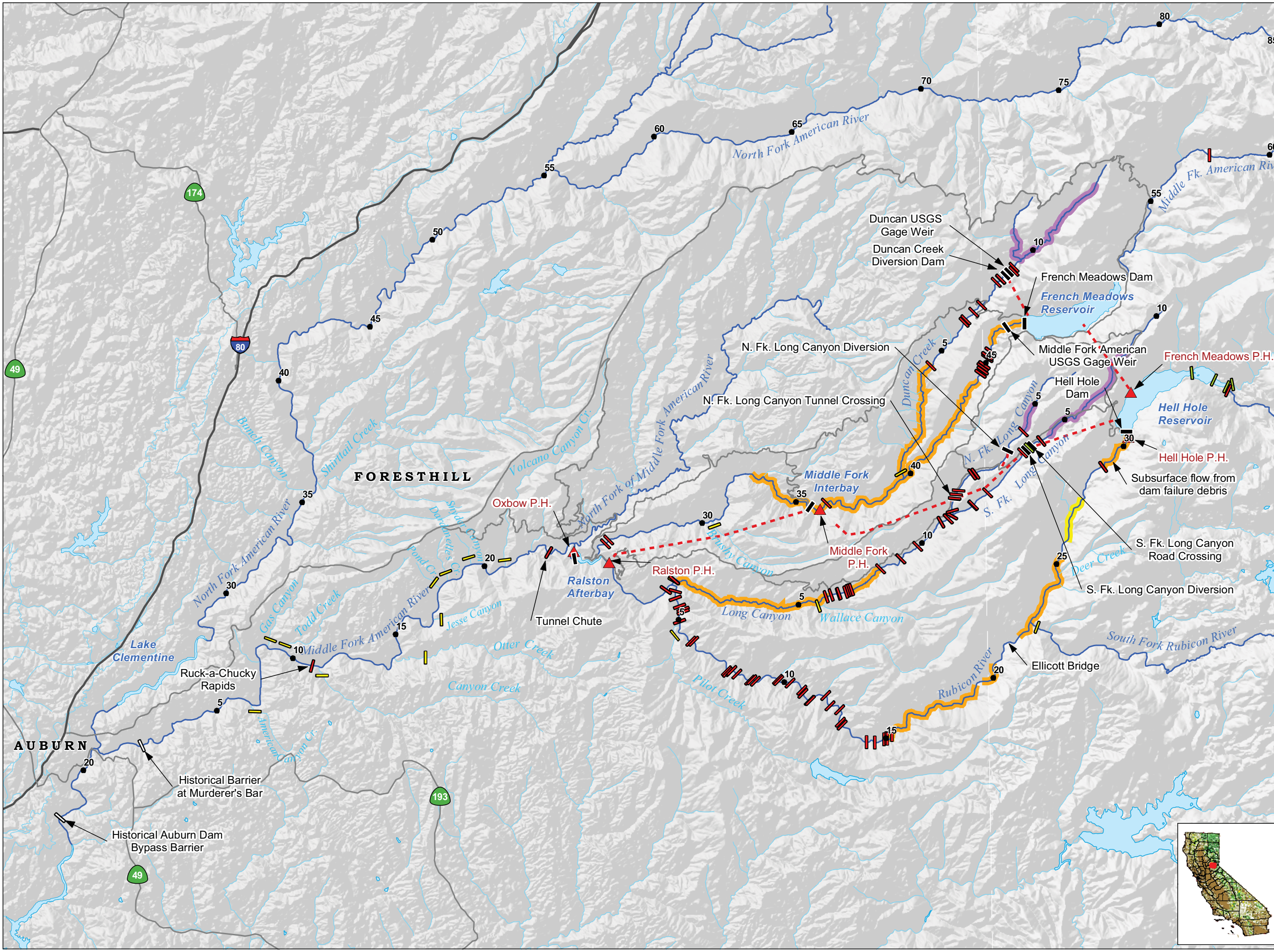
Date: 11/21/08



Miles

Projection: CA State Plane, Zone 2
Datum: NAD 83





- Project Facilities**
- ▲ Powerhouse
 - - - Tunnel
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Water Body
- Fish Passage Barrier Assessment***
- Project Infrastructure Barrier
 - Reservoir/Diversion Pool Inlet Barrier
 - Tributary Confluence Barrier
 - Natural Barrier (Both Barriers and Potential Barriers)
 - Historical Barrier Now Removed
- * Includes barriers quantified as impassable and potentially impassable.
- Infrequent Natural Barriers Inferred from Aerial Imagery
 - Frequent Natural Barriers Inferred from Aerial Imagery
 - Additional Barriers Identified During Qualitative Stream Surveys

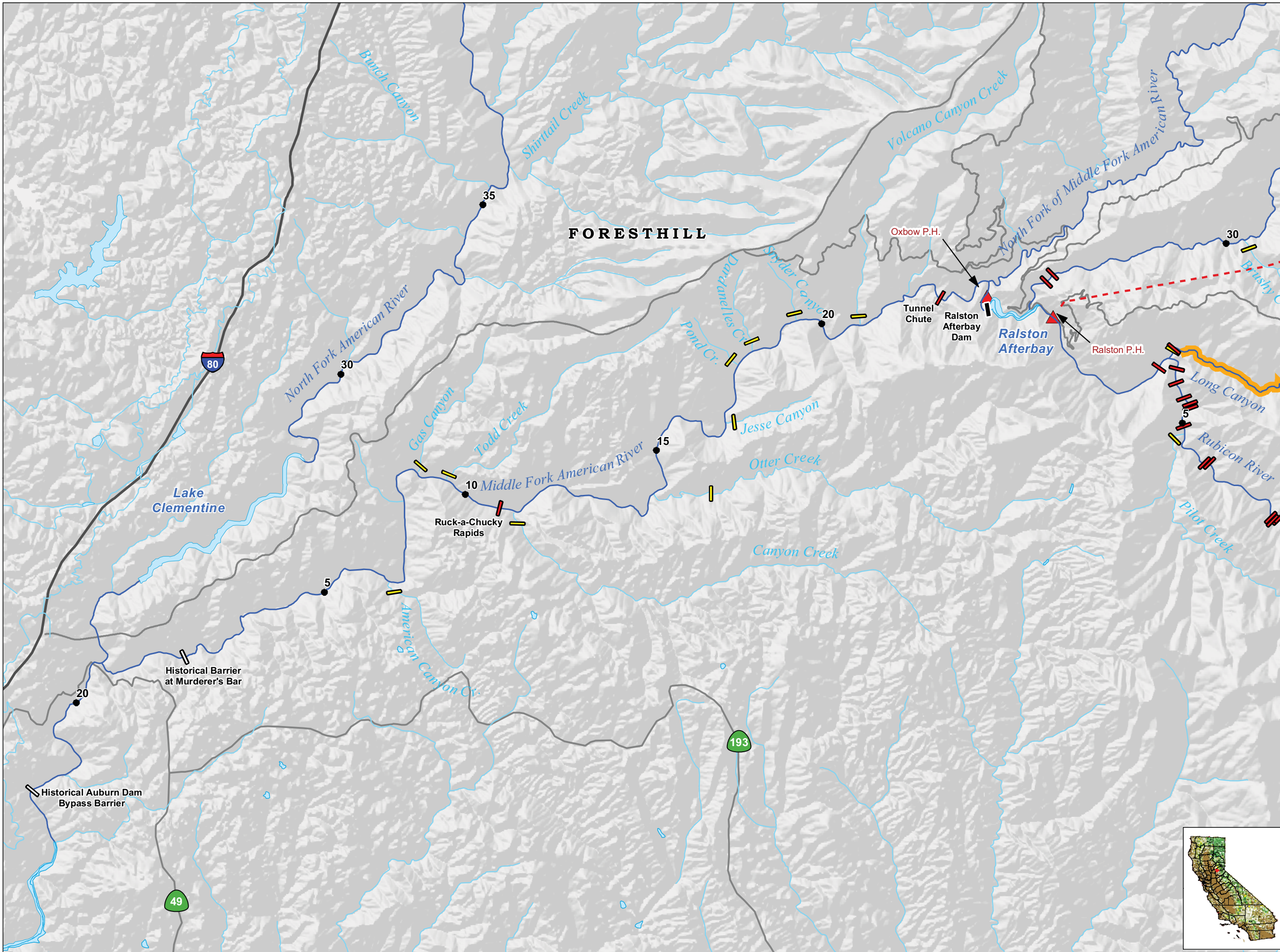
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Map AQ 6-2
Fish Passage Barrier Locations and Frequency
Overview Map

0 1 2 3
Miles

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 2/13/2009



Project Facilities

- Powerhouse
- Tunnel

Transportation

- Major Highway
- Minor Highway

Hydrography

- Watercourse with river miles (5 mi. increments)
- Water Body

Fish Passage Barrier Assessment*

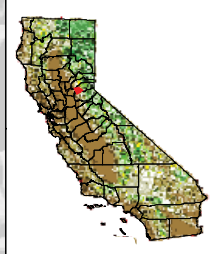
- Project Infrastructure Barrier
- Reservoir/Diversion Pool Inlet Barrier
- Tributary Confluence Barrier
- Natural Barrier (Both Barriers and Potential Barriers)
- Historical Barrier Now Removed

* Includes barriers quantified as impassable and potentially impassable.

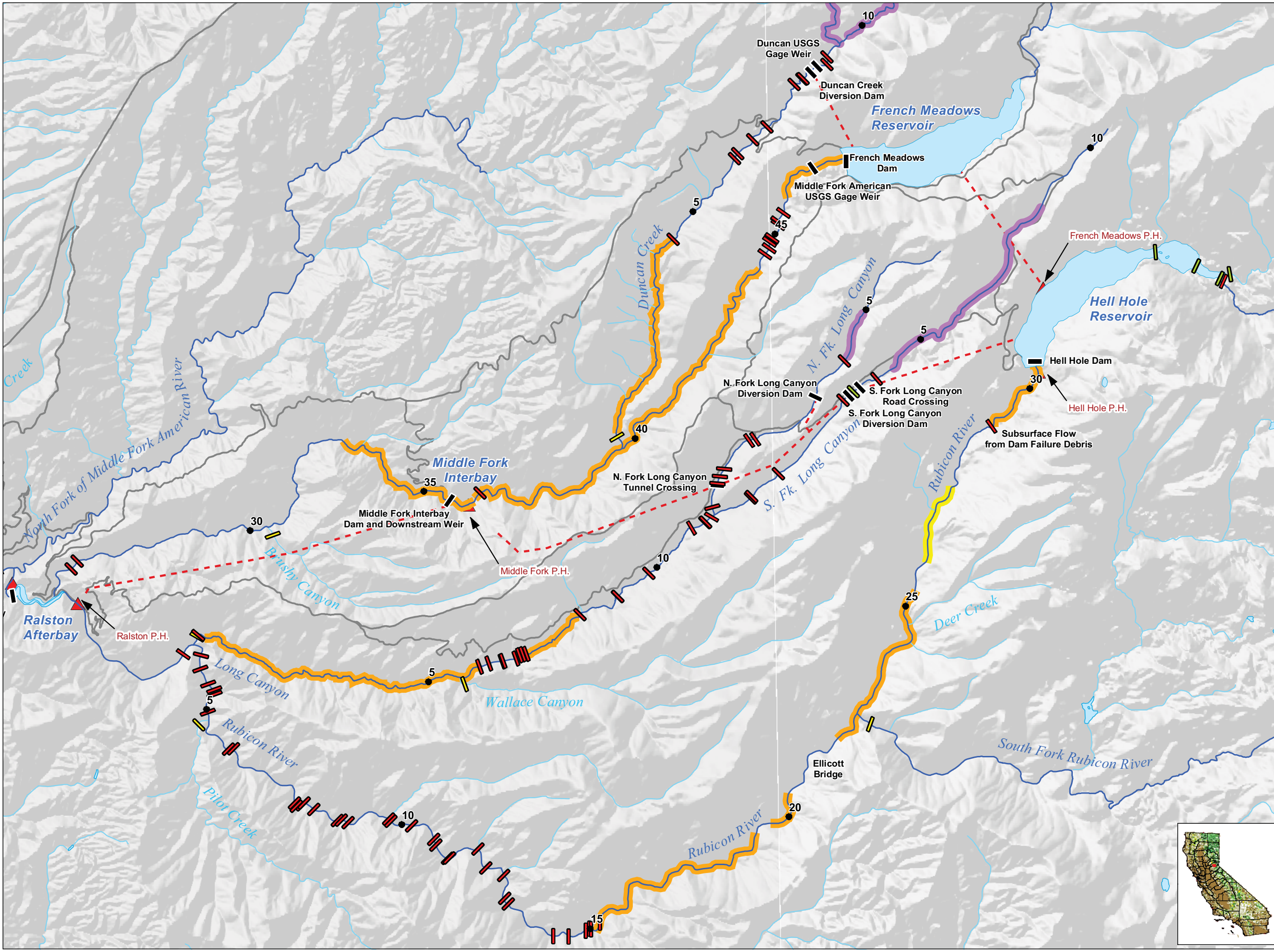
- Infrequent Natural Barriers Inferred from Aerial Imagery
- Frequent Natural Barriers Inferred from Aerial Imagery
- Additional Barriers Identified During Qualitative Stream Surveys



Placer County Water Agency
 Middle Fork American River Project
Map AQ 6-3
Fish Passage Barrier
Locations and Frequency
 Lower Project Area



0 0.5 1 1.5 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 2/10/2009



- Project Facilities**
- ▲ Powerhouse
 - - - Tunnel
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Water Body
- Fish Passage Barrier Assessment***
- █ Project Infrastructure Barrier
 - █ Reservoir/Diversion Pool Inlet Barrier
 - █ Tributary Confluence Barrier
 - █ Natural Barrier (Both Barriers and Potential Barriers)
 - Historical Barrier Now Removed
- * Includes barriers quantified as impassable and potentially impassable.
- █ Infrequent Natural Barriers Inferred from Aerial Imagery
 - █ Frequent Natural Barriers Inferred from Aerial Imagery
 - █ Additional Barriers Identified During Qualitative Stream Surveys

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Map AQ 6-4
Fish Passage Barrier Locations and Frequency
Upper Project Area

0 0.5 1 1.5 2
Miles

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 2/10/2009