

Project Facilities*

- ▲ Powerhouse
- Dam
- Tunnel
- Penstock

* All MFP facilities labeled in red.

Transportation

- Major Road
- Minor Road


Hydrography

- Watercourse
- Water Body

Designated Boundary


- County Boundary
- Wilderness Area
- Middle Fork American River Watershed**

**Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake




Placer County Water Agency
Middle Fork American River Project

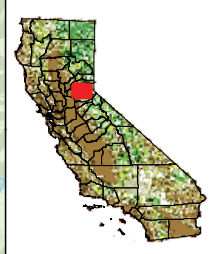
BA/BE Map 1
Middle Fork Project and Vicinity

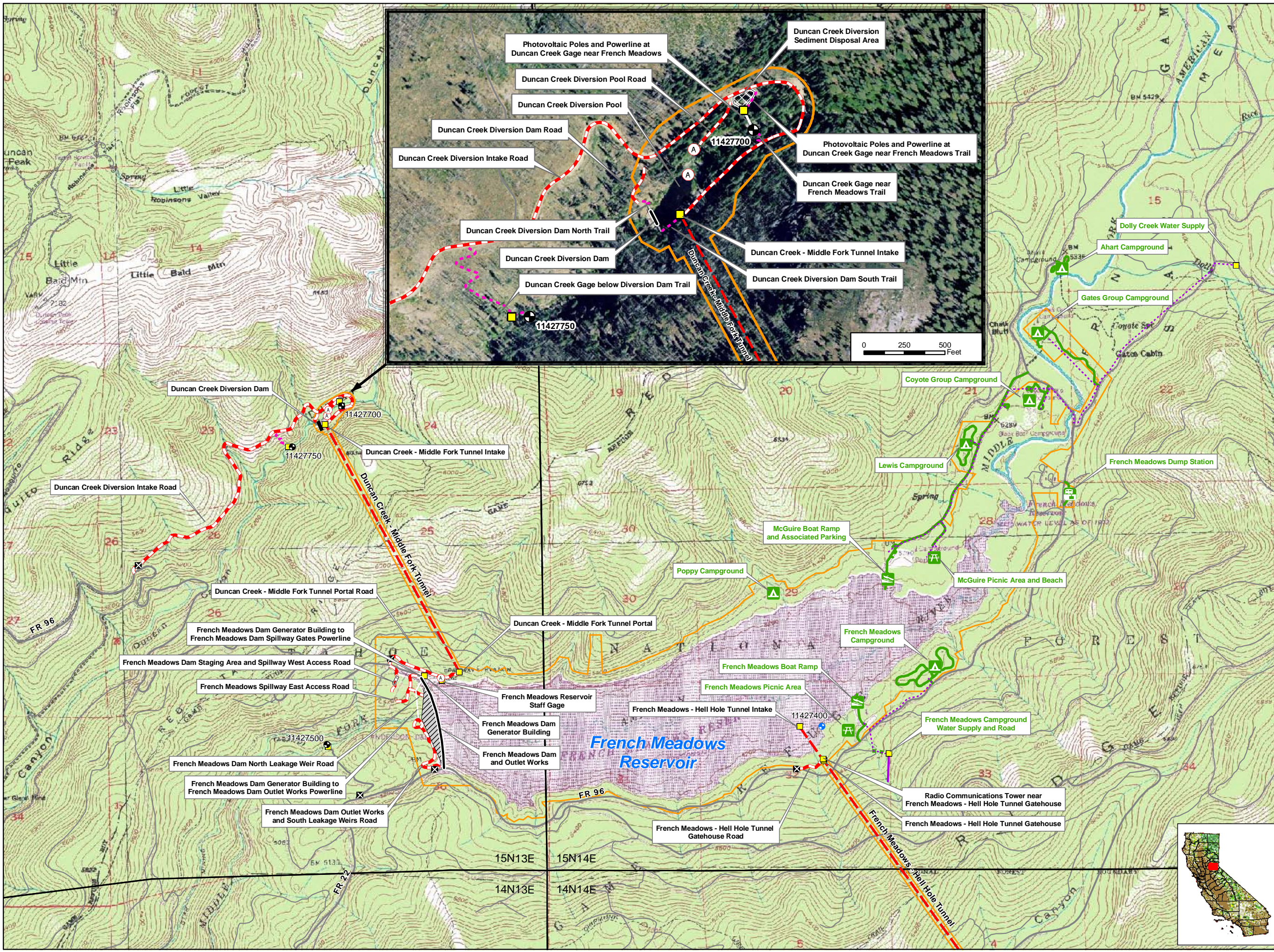


Date: 2/15/11




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





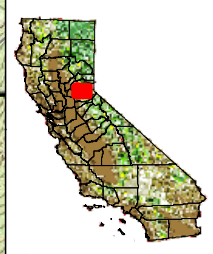
- PCWA Facilities and Features**
- Dam
 - Ancillary and Other Facilities
 - Powerhouse
 - Gage
 - Reservoir Gage
 - Penstock
 - Tunnel
 - Pipeline
 - Gate
 - Access Point
 - Public Safety Fence
 - FERC Boundary
- Project Power and Communication Lines:**
- Communication
 - Power
 - Power (underground)
 - Communication/Power
 - Communication/Power (underground)
- Transportation**
- Road
 - Project Road
 - Project Trail
 - Recreation Access Road
 - Recreation Facility Water Supply Access Road or Trail
- Project Recreation Facilities**
- Picnic Area
 - Boat Ramp
 - Scenic Viewpoint
 - Developed Campground
 - Trailer Sanitary Station
 - Water Supply Line (Above ground)
 - Water Supply Line (Buried)
- Other Facilities**
- PG & E Transmission Lines:
 - 230 kV
 - 60 kV



Placer County Water Agency
Middle Fork American River Project

B/BE Map 2a

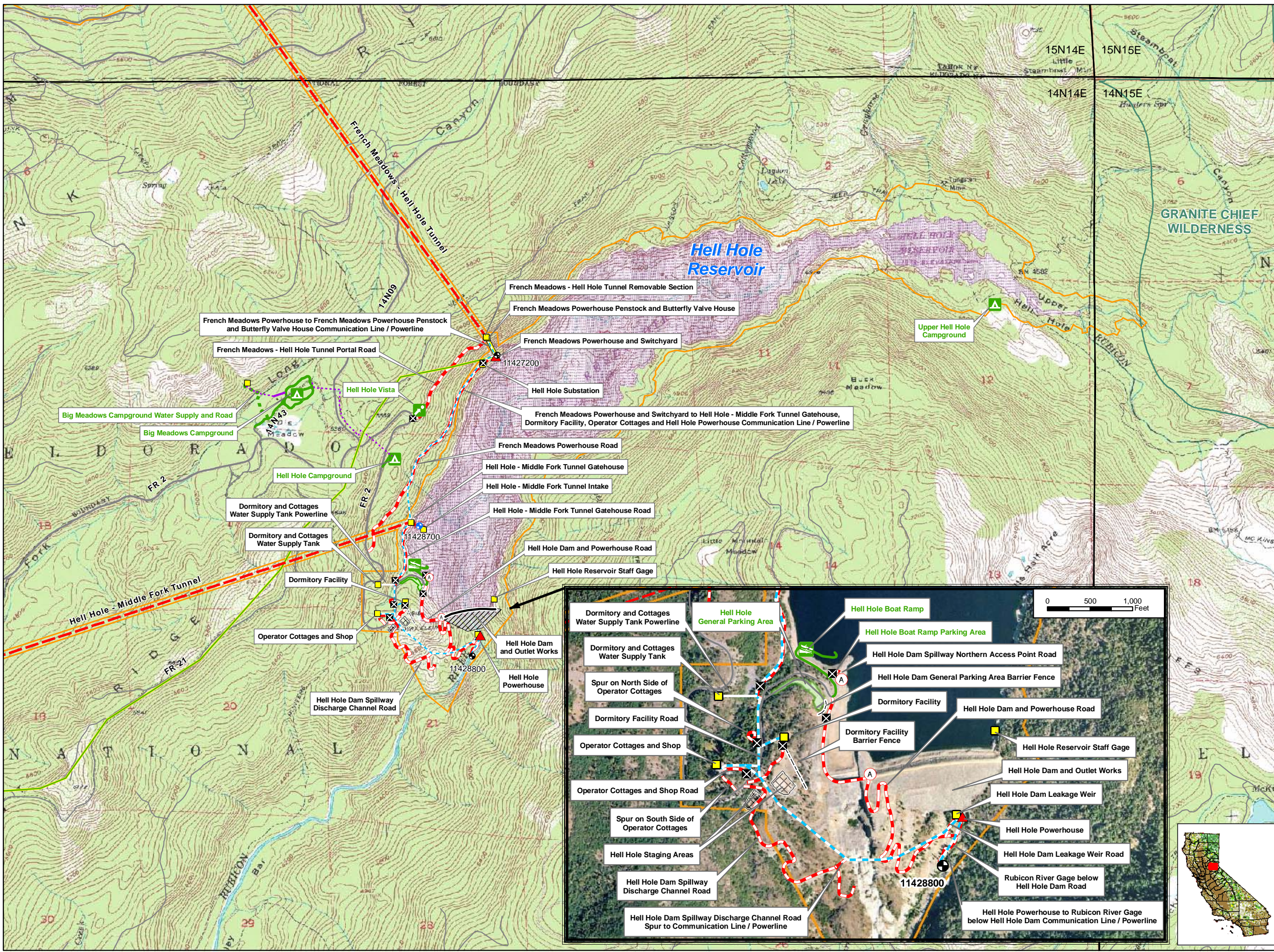
**Duncan Creek, French Meadows Area
(No-Action Alternative)**



0 0.25 0.5 Miles

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/15/11



PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Reservoir Gage
- Penstock
- Tunnel
- Pipeline
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- Access Point
- Public Safety Fence
- FERC Boundary

Project Power and Communication Lines:

- Communication
- Power
- Power (underground)
- Communication/Power
- Communication/Power (underground)

Transportation

- Road
- Project Road
- Project Trail
- Recreation Access Road
- Recreation Facility Water Supply Access Road or Trail

Project Recreation Facilities

- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Trailer Sanitary Station
- Water Supply Line (Above ground)
- Water Supply Line (Buried)

Other Facilities

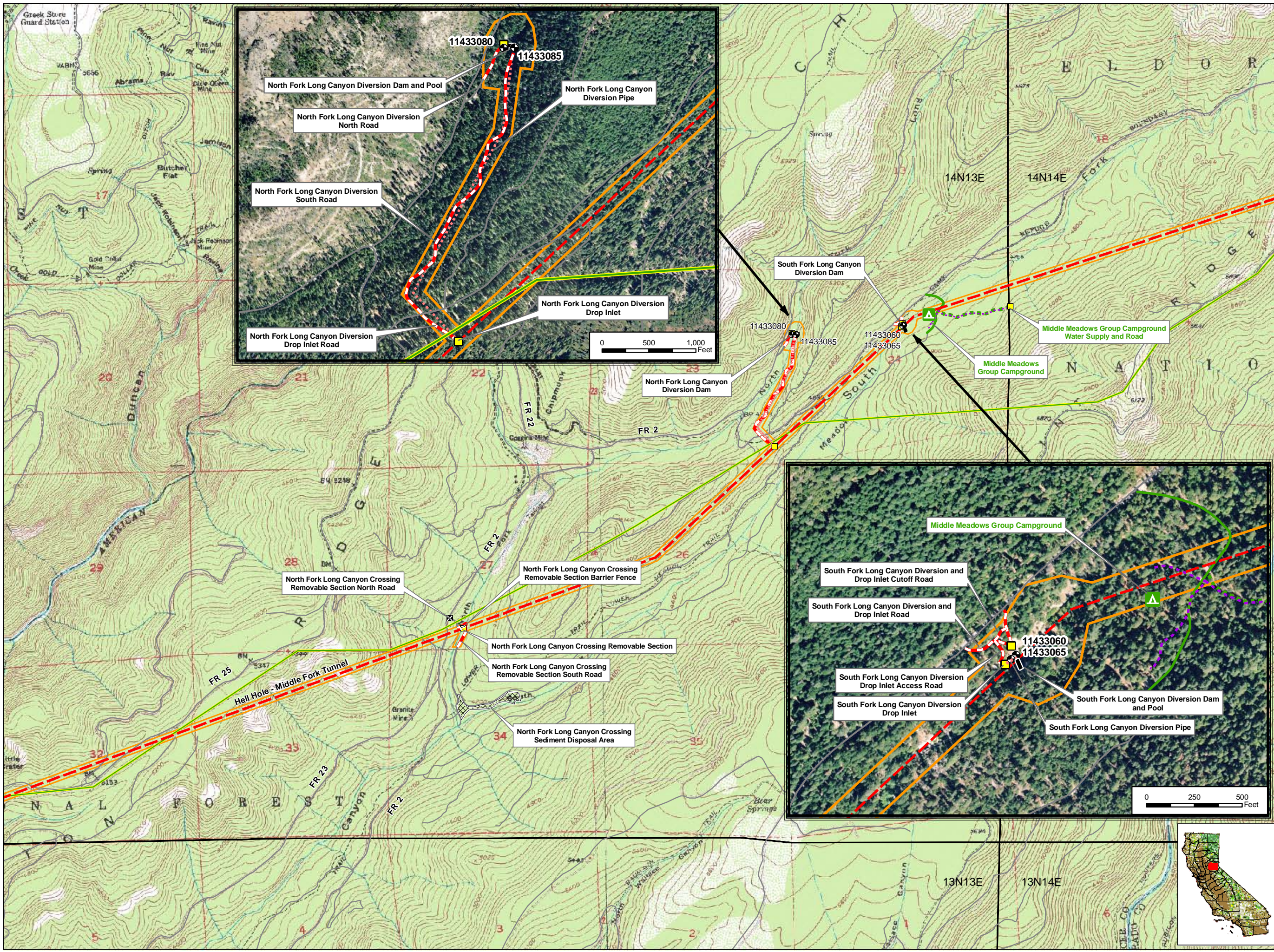
PG & E Transmission Lines:

- 230 kV
- 60 kV


PCWA
Placer County Water Agency
Middle Fork American River Project

BA/BE Map 2b
Hell Hole Area
(No-Action Alternative)

0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 2/15/11



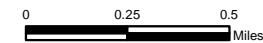
- PCWA Facilities and Features**
- Dam
 - Ancillary and Other Facilities
 - Powerhouse
 - Gage
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 - Boat Ramp
 - Scenic Viewpoint
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 - Trailer Sanitary Station
 - Water Supply Line (Above ground)
 - Water Supply Line (Buried)
- Other Facilities**
- PG & E Transmission Lines:
- 230 kV
 - 60 kV



Placer County Water Agency
Middle Fork American River Project

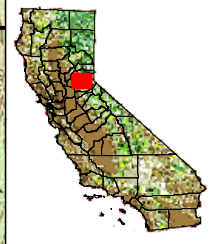
BABE Map 2c

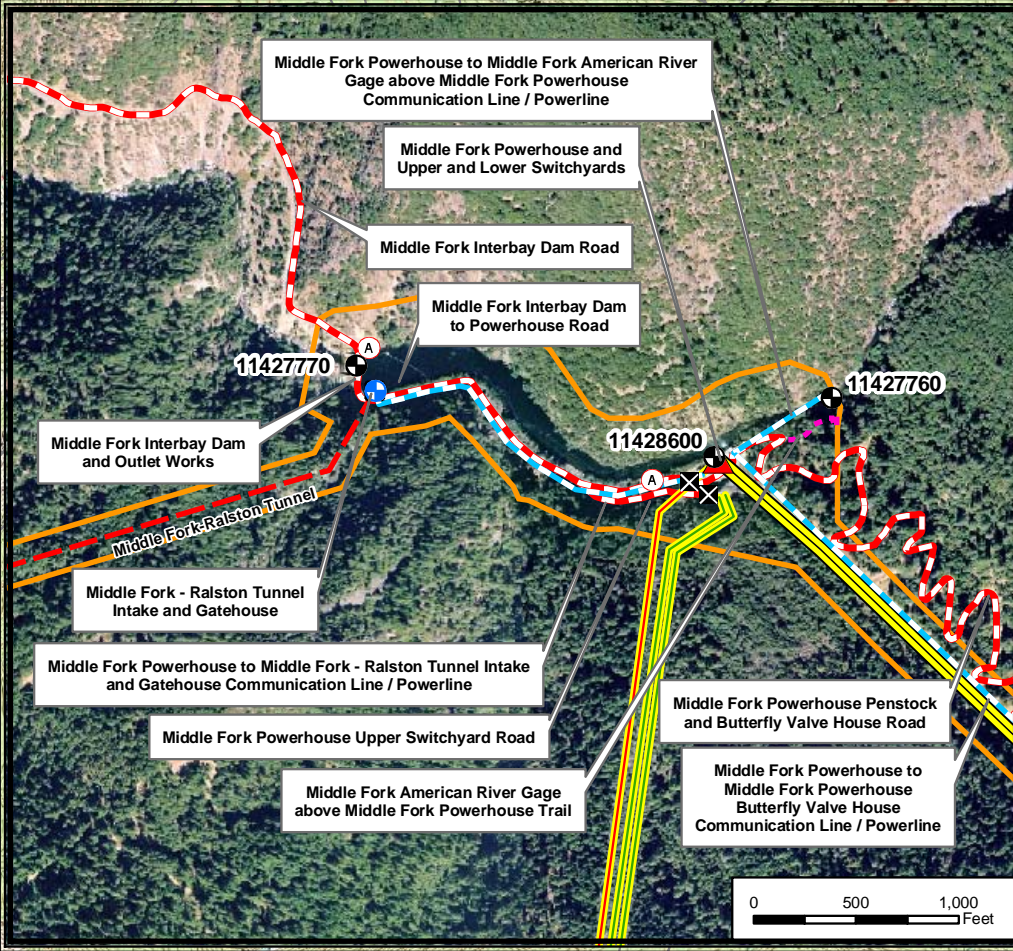
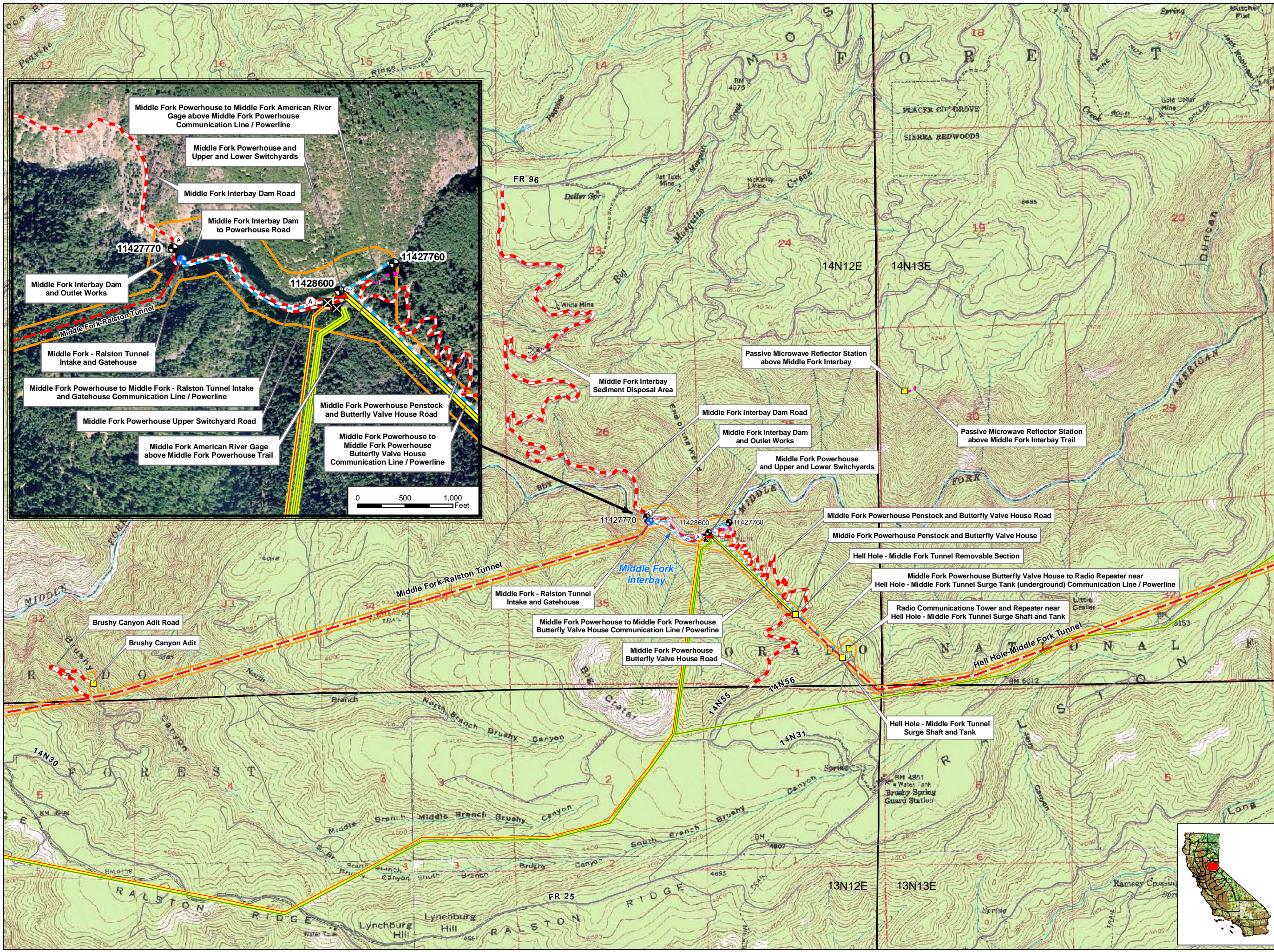
**Long Canyon Area
(No-Action Alternative)**



Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/15/11





PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Reservoir Gage
- Penstock
- Tunnel
- Pipeline
- Gate
- Access Point
- Public Safety Fence
- FERC Boundary

Project Power and Communication Lines:

- Communication
- Power
- Power (underground)
- Communication/Power
- Communication/Power (underground)

Transportation

- Road
- Project Road
- Project Trail
- Recreation Access Road
- Recreation Facility Water Supply Access Road or Trail

Project Recreation Facilities

- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Trailer Sanitary Station
- Water Supply Line (Above ground)
- Water Supply Line (Buried)

Other Facilities

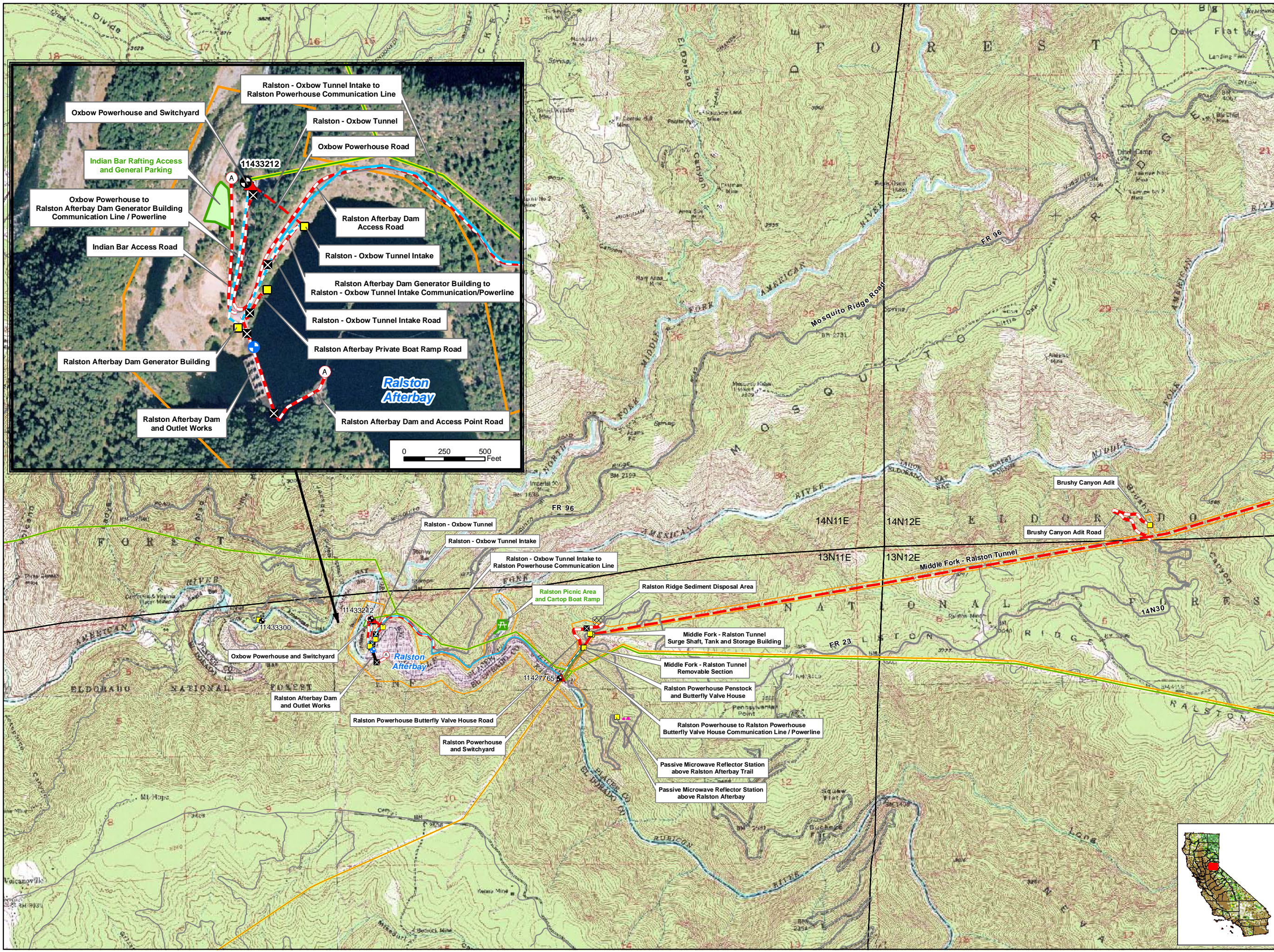
PG & E Transmission Lines:

- 230 kV
- 60 kV

PCWA
Placer County Water Agency
Middle Fork American River Project

BA/BE Map 2d
Middle Fork Interbay Area (No-Action Alternative)

0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 2/15/11



- PCWA Facilities and Features**
- Dam
 - Ancillary and Other Facilities
 - Powerhouse
 - Gage
 - Reservoir Gage
 - Penstock
 - Tunnel
 - Pipeline
 - Gate
 - Access Point
 - Public Safety Fence
 - FERC Boundary
- Project Power and Communication Lines:**
- Communication
 - Power
 - Power (underground)
 - Communication/Power
 - Communication/Power (underground)
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- Road
 - Project Road
 - Project Trail
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 - Recreation Facility Water Supply Access Road or Trail
- Project Recreation Facilities**
- Picnic Area
 - Boat Ramp
 - Scenic Viewpoint
 - Developed Campground
 - Trailer Sanitary Station
 - Water Supply Line (Above ground)
 - Water Supply Line (Buried)
- Other Facilities**
- PG & E Transmission Lines:
- 230 kV
 - 60 kV

PCWA

Placer County Water Agency
Middle Fork American River Project

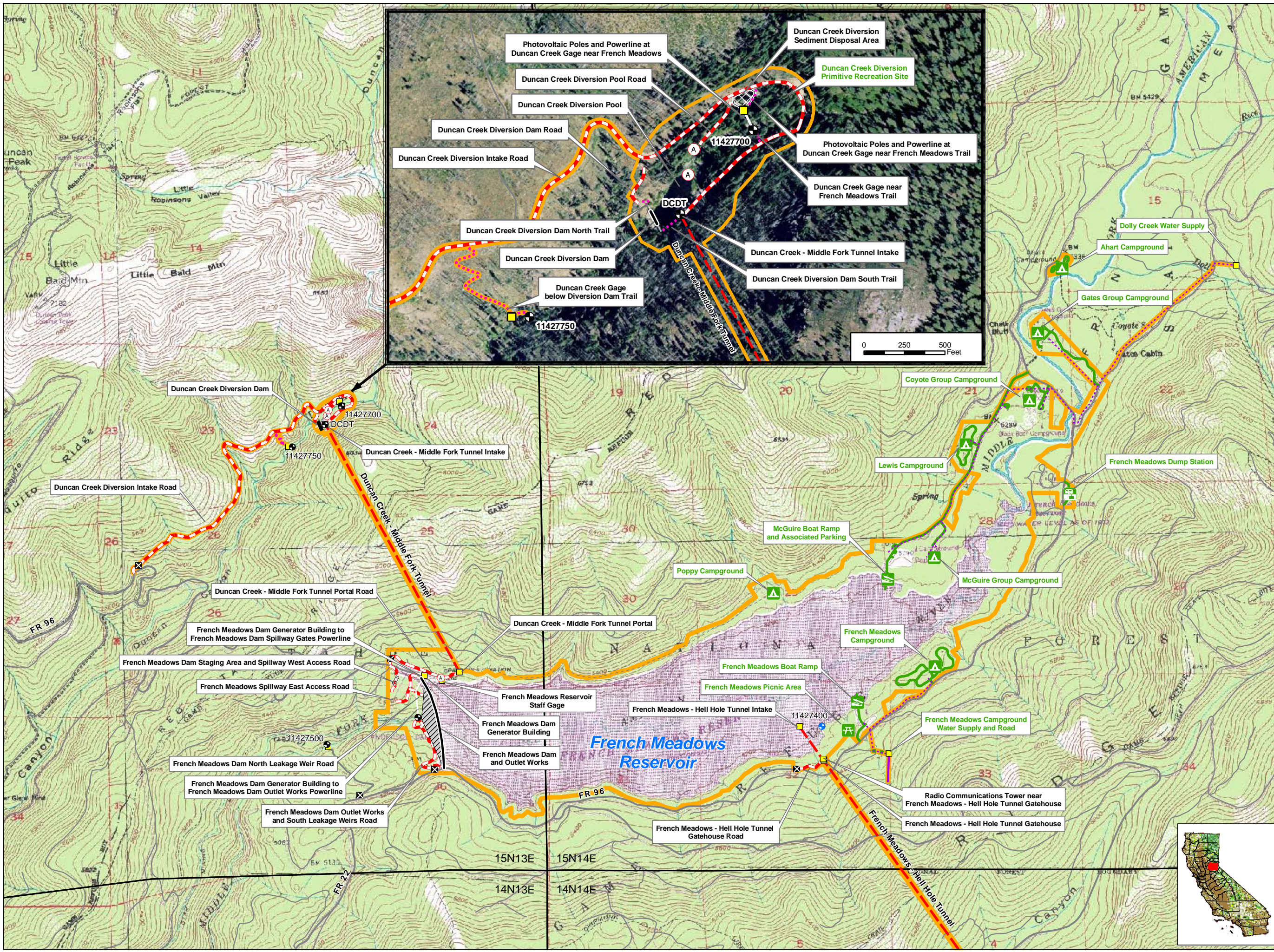
BABE Map 2e

**Ralston, Oxbow Area
(No-Action Alternative)**

0 0.25 0.5 Miles

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/15/11



- PCWA Facilities and Features**
- Dam
 - Ancillary and Other Facilities
 - Powerhouse
 - Gage
 - Reservoir Gage
 - Penstock
 - Tunnel
 - Pipeline
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 - Public Safety Fence
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 - Communication/Power
 - Communication/Power (underground)
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 - Recreation Facility Water Supply Access Road or Trail
- Project Recreation Facilities**
- Picnic Area
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 - Developed Campground
 - Trailer Sanitary Station
 - Water Supply Line (Above ground)
 - Water Supply Line (Buried)
- Other Facilities**
- PG & E Transmission Lines:
 - 230 kV
 - 60 kV

PCWA

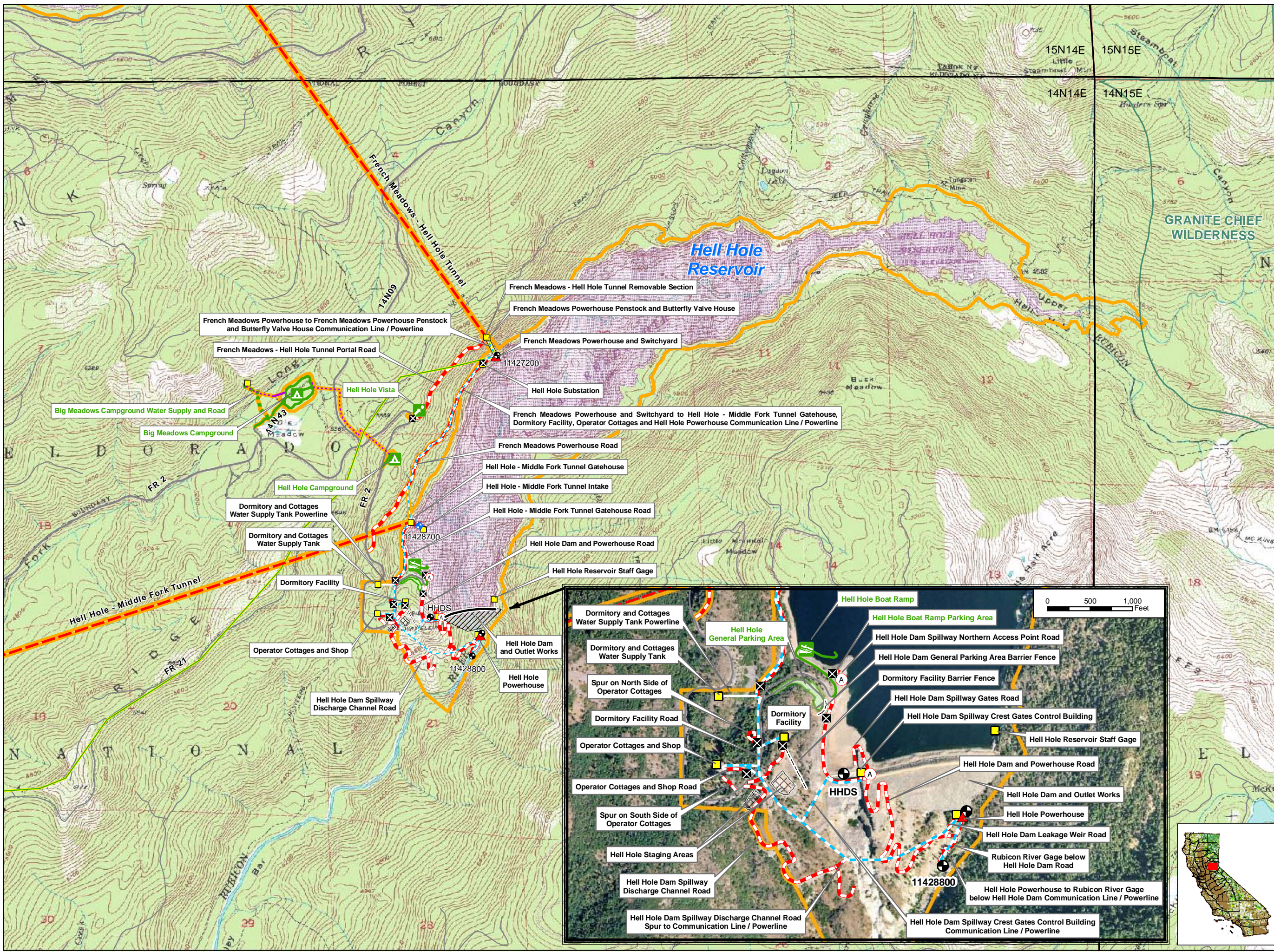
Placer County Water Agency
Middle Fork American River Project

BA/BE Map 3a

**Duncan Creek, French Meadows Area
(Proposed Action)**

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/15/11



PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Reservoir Gage
- Penstock
- Tunnel
- Pipeline
- Gate
- Access Point
- Public Safety Fence
- FERC Boundary

Project Power and Communication Lines:

- Communication
- Power
- Power (underground)
- Communication/Power
- Communication/Power (underground)

Transportation

- Road
- Project Road
- Project Trail
- Recreation Access Road
- Recreation Facility Water Supply Access Road or Trail

Project Recreation Facilities

- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Trailer Sanitary Station
- Water Supply Line (Above ground)
- Water Supply Line (Buried)

Other Facilities

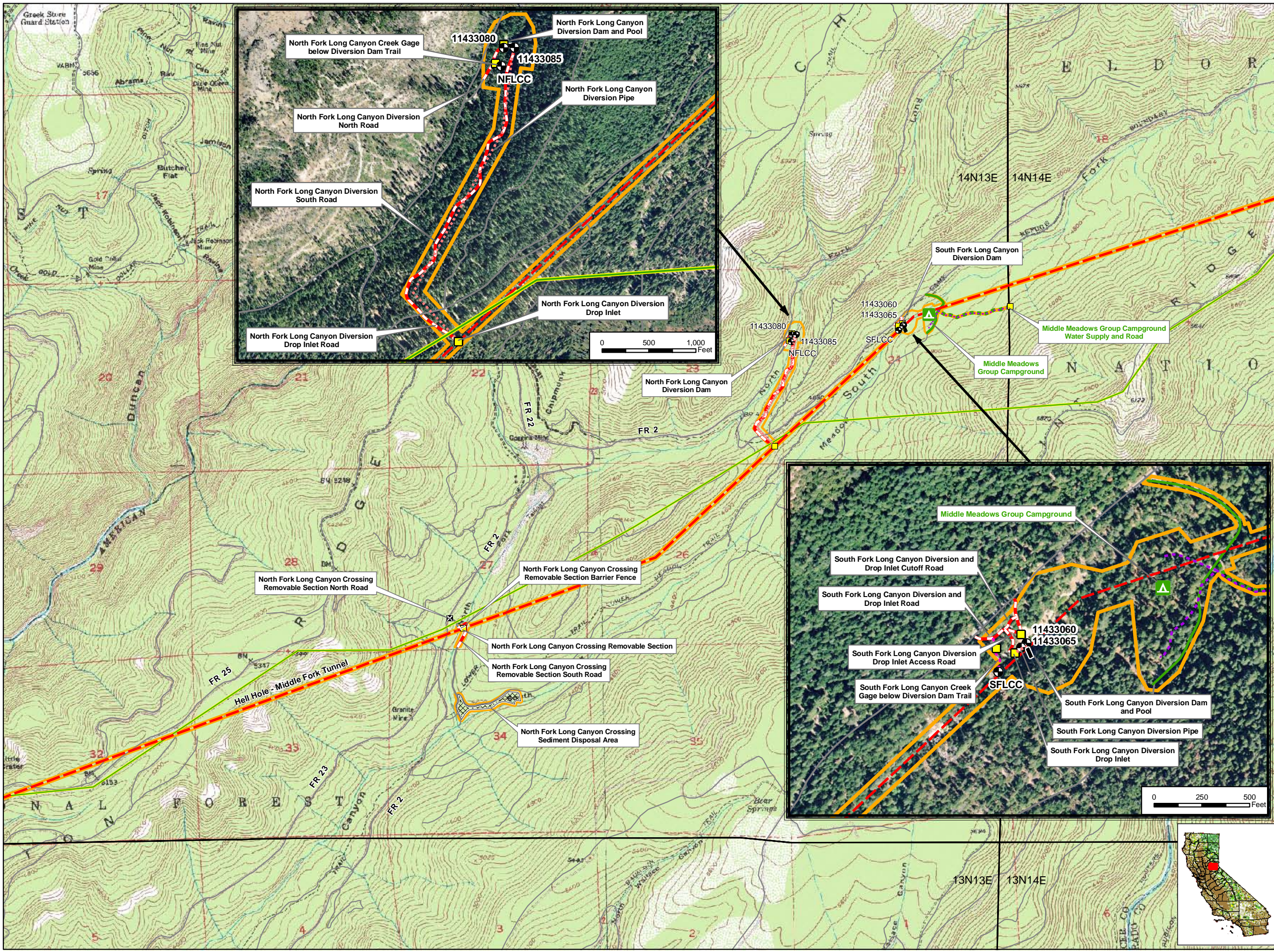
PG & E Transmission Lines:

- 230 kV
- 60 kV

PCWA
Placer County Water Agency
Middle Fork American River Project

BA/BE Map 3b
Hell Hole Area
(Proposed Action)

0 0.25 0.5 Miles
Date: 2/15/11
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83



- PCWA Facilities and Features**
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 - Water Supply Line (Buried)
- Other Facilities**
- PG & E Transmission Lines:
- 230 kV
 - 60 kV

PCWA

Placer County Water Agency
Middle Fork American River Project

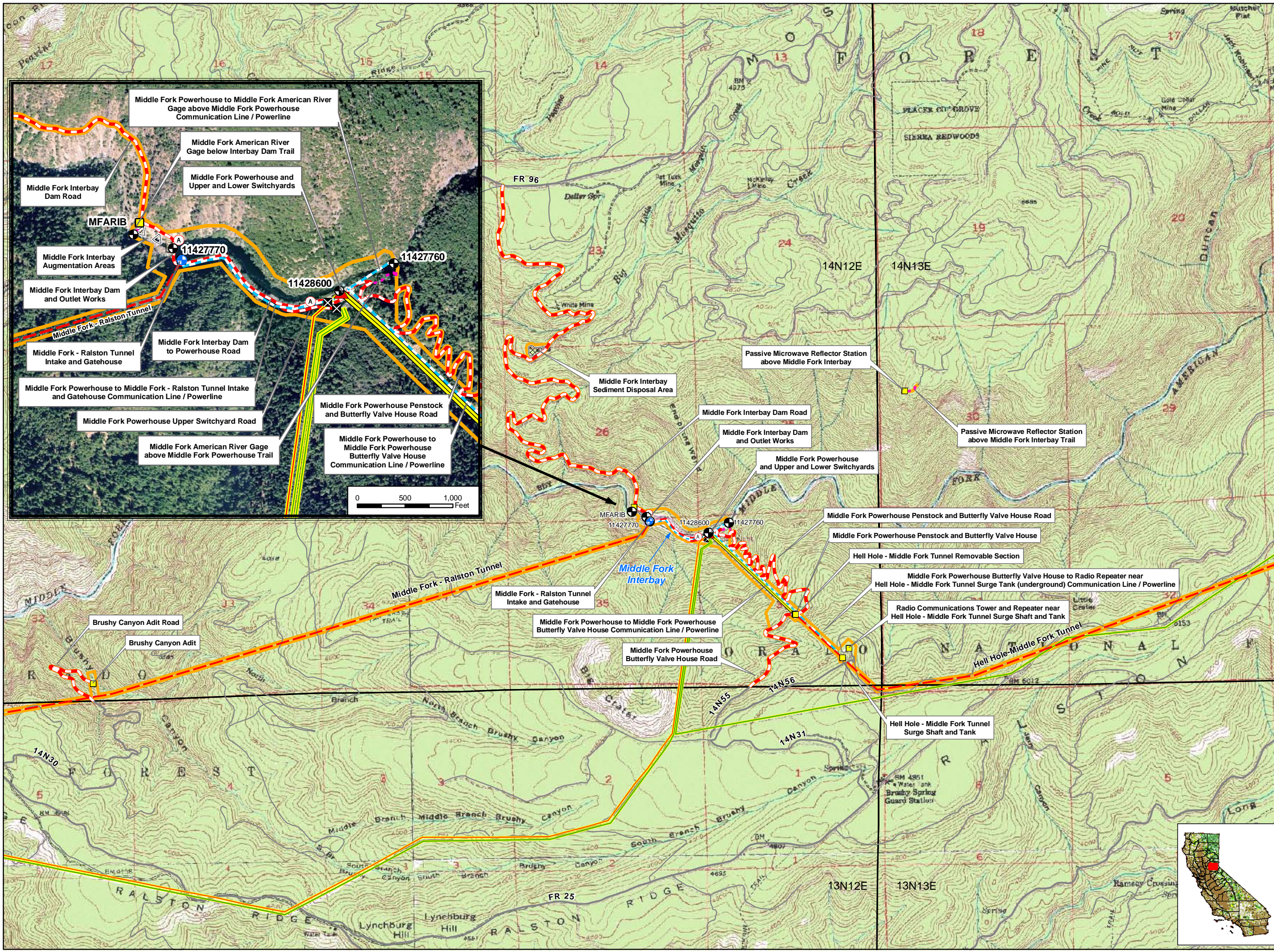
BABE Map 3c

**Long Canyon Area
(Proposed Action)**


0 0.25 0.5 Miles

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/15/11



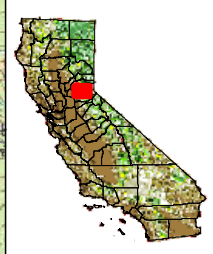
- PCWA Facilities and Features**
- Dam
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 - Water Supply Line (Above ground)
 - Water Supply Line (Buried)
- Other Facilities**
- PG & E Transmission Lines:
- 230 kV
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Placer County Water Agency
Middle Fork American River Project

BABE Map 3d

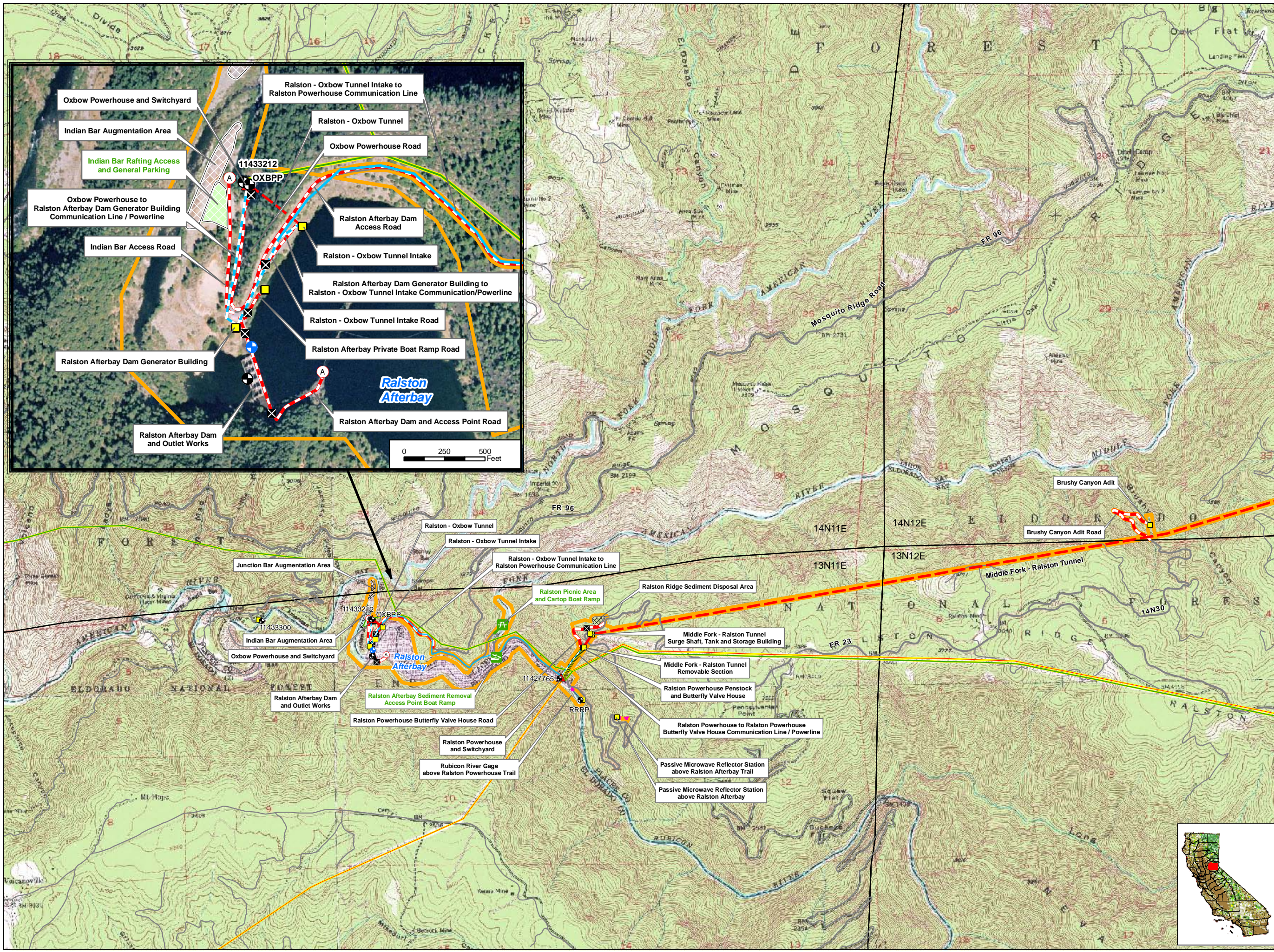
**Middle Fork Interbay Area
(Proposed Action)**



0 0.25 0.5 Miles

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/15/11



Oxbow Powerhouse and Switchyard

Indian Bar Augmentation Area

Indian Bar Rafting Access and General Parking

Oxbow Powerhouse to Ralston Afterbay Dam Generator Building Communication Line / Powerline

Indian Bar Access Road

Ralston Afterbay Dam Generator Building

Ralston Afterbay Dam and Outlet Works

Ralston - Oxbow Tunnel Intake to Ralston Powerhouse Communication Line

Ralston - Oxbow Tunnel

Oxbow Powerhouse Road

Ralston Afterbay Dam Access Road

Ralston - Oxbow Tunnel Intake

Ralston Afterbay Dam Generator Building to Ralston - Oxbow Tunnel Intake Communication/Powerline

Ralston - Oxbow Tunnel Intake Road

Ralston Afterbay Private Boat Ramp Road

Ralston Afterbay Dam and Access Point Road

Ralston Afterbay

0 250 500 Feet

Junction Bar Augmentation Area

Ralston - Oxbow Tunnel

Ralston - Oxbow Tunnel Intake

Ralston - Oxbow Tunnel Intake to Ralston Powerhouse Communication Line

Ralston Picnic Area and Cartop Boat Ramp

Ralston Ridge Sediment Disposal Area

Middle Fork - Ralston Tunnel Surge Shaft, Tank and Storage Building

Middle Fork - Ralston Tunnel Removable Section

Ralston Powerhouse Penstock and Butterfly Valve House

Ralston Powerhouse Butterfly Valve House Road

Ralston Powerhouse and Switchyard

Rubicon River Gage above Ralston Powerhouse Trail

Ralston Afterbay Sediment Removal Access Point Boat Ramp

Ralston Afterbay Dam and Outlet Works

Ralston Afterbay

Ralston Powerhouse to Ralston Powerhouse Butterfly Valve House Communication Line / Powerline

Passive Microwave Reflector Station above Ralston Afterbay Trail

Passive Microwave Reflector Station above Ralston Afterbay

Brushy Canyon Adit

Brushy Canyon Adit Road

Middle Fork - Ralston Tunnel

PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Reservoir Gage
- Penstock
- Tunnel
- Pipeline
- Gate
- Access Point
- Public Safety Fence
- FERC Boundary

Project Power and Communication Lines:

- Communication
- Power
- Power (underground)
- Communication/Power
- Communication/Power (underground)

Transportation

- Road
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- Project Trail
- Recreation Access Road
- Recreation Facility Water Supply Access Road or Trail

Project Recreation Facilities

- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Trailer Sanitary Station
- Water Supply Line (Above ground)
- Water Supply Line (Buried)

Other Facilities

PG & E Transmission Lines:




- 230 kV
- 60 kV

PCWA
Placer County Water Agency
Middle Fork American River Project

BABE Map 3e
Ralston, Oxbow Area
(Proposed Action)


0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 2/15/11

PCWA Surveys and Incidental Observations:





-  pallid bat
-  Townsend's big-eared bat
-  western red bat

Other Documented Occurrences:



- CNDDDB Data (Point)
-  Sierra Marten
 -  Pacific fisher
 -  California wolverine

- USFS Data
-  pallid bat*
- * W. Clevenger Data



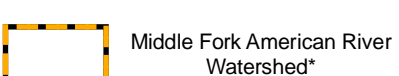
Project Facilities

-  Powerhouse
-  Dam
-  Tunnel
-  Penstock

Transportation

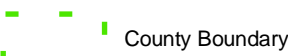


-  Major Road
-  Minor Road

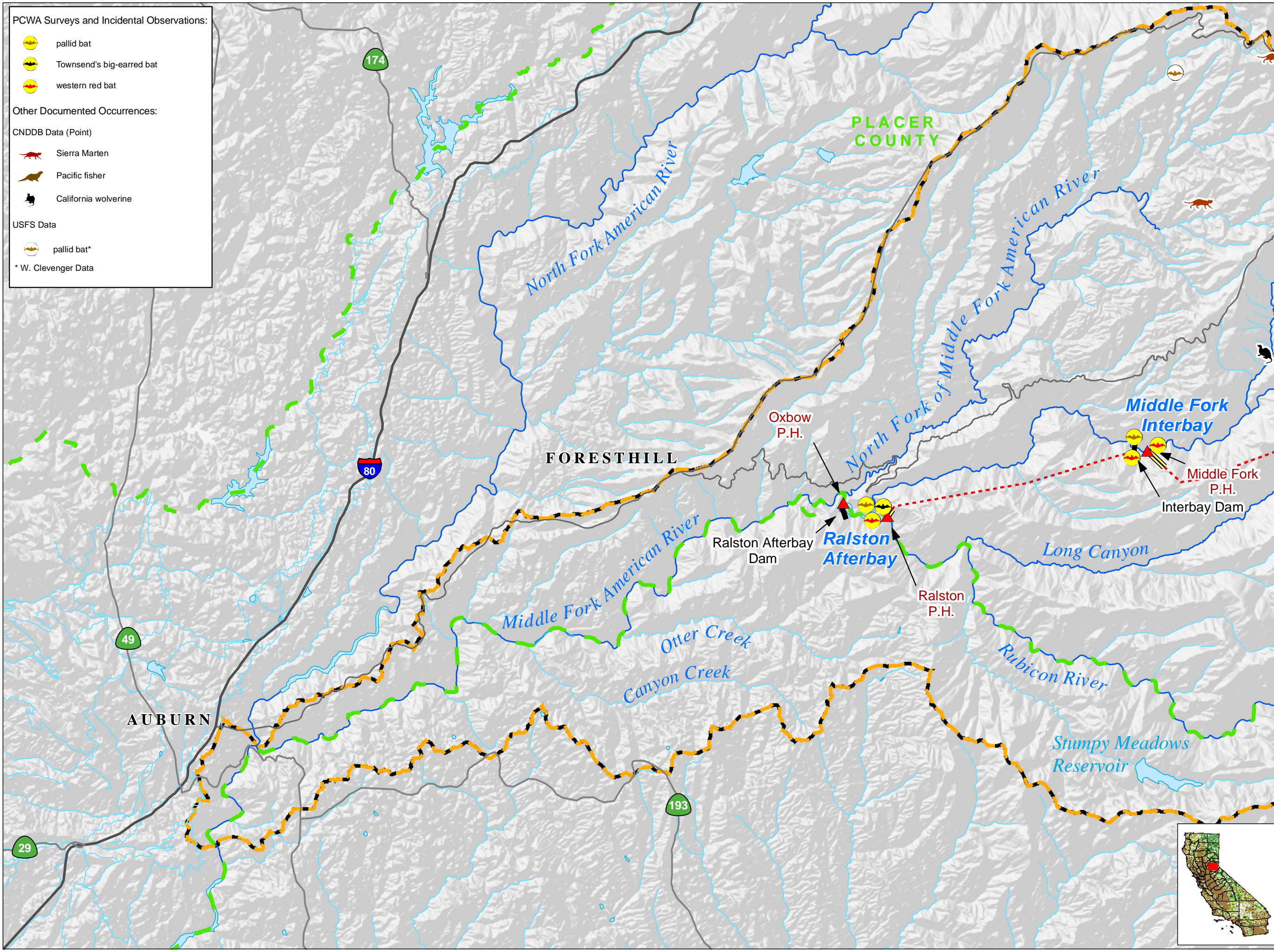
Hydrography


-  Watercourse
-  Water Body
-  Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

Designated Boundary

-  County Boundary
-  Wilderness Area
-  State Game Refuge



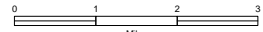


Placer County Water Agency
Middle Fork American River Project

BA/BE Map 4a

**Location of Special-Status Mammals
in the Vicinity of the MFP**




West Map






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

Date: 2/15/11


PCWA Surveys and Incidental Observations:

-  pallid bat
-  Townsend's big-eared bat
-  western red bat





Other Documented Occurrences:

- CNDDDB Data (Point)
-  Sierra Marten
 -  Pacific fisher
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

Project Facilities

-  Powerhouse
-  Dam
-  Tunnel
-  Penstock




Transportation

-  Major Road
-  Minor Road

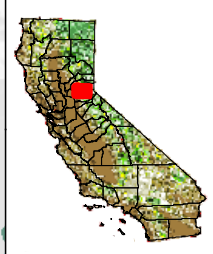
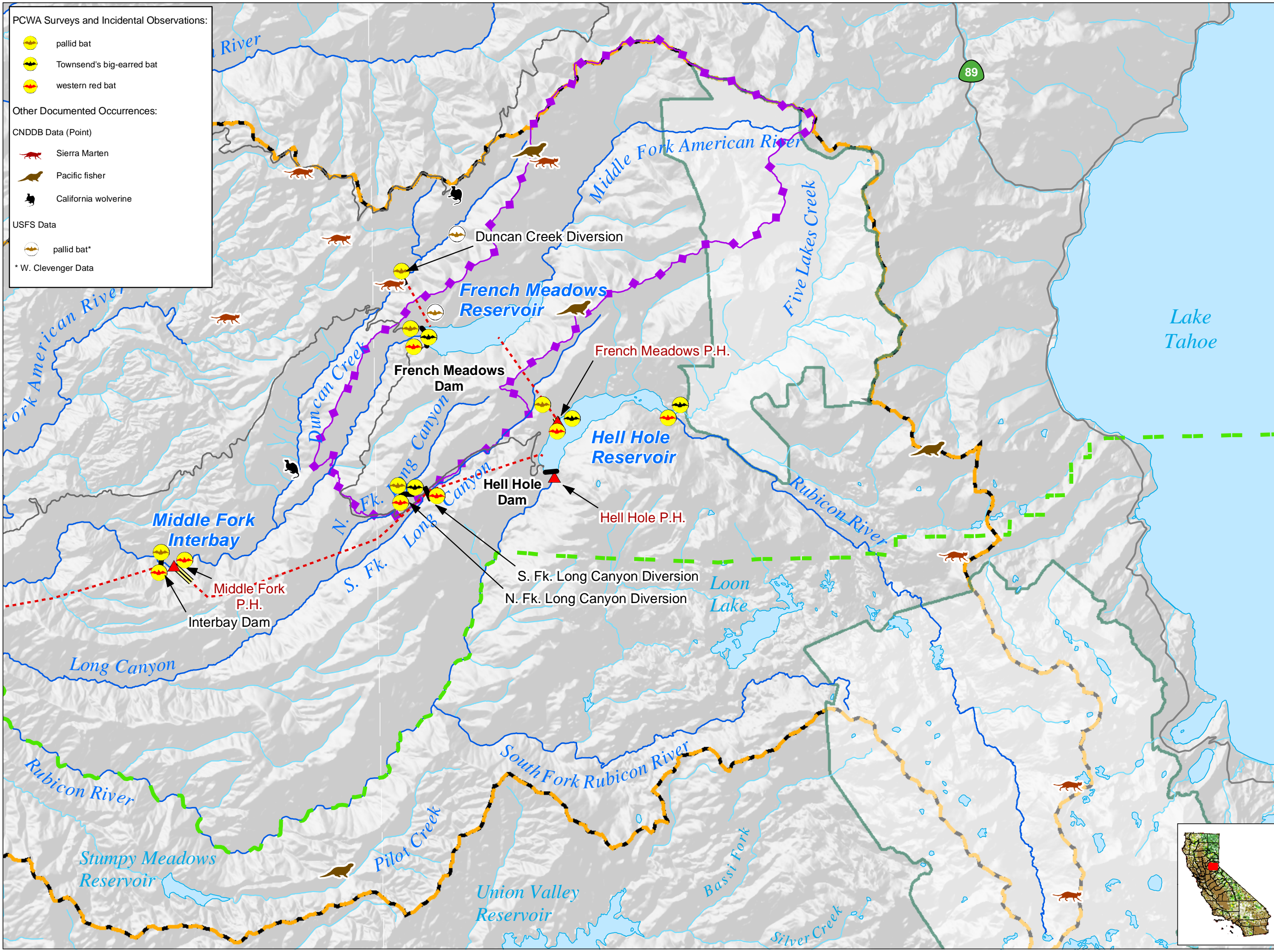
Hydrography

-  Watercourse
-  Water Body
-  Middle Fork American River Watershed*

Designated Boundary

-  County Boundary
-  Wilderness Area
-  State Game Refuge

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake



Placer County Water Agency
Middle Fork American River Project

BA/BE Map 4b

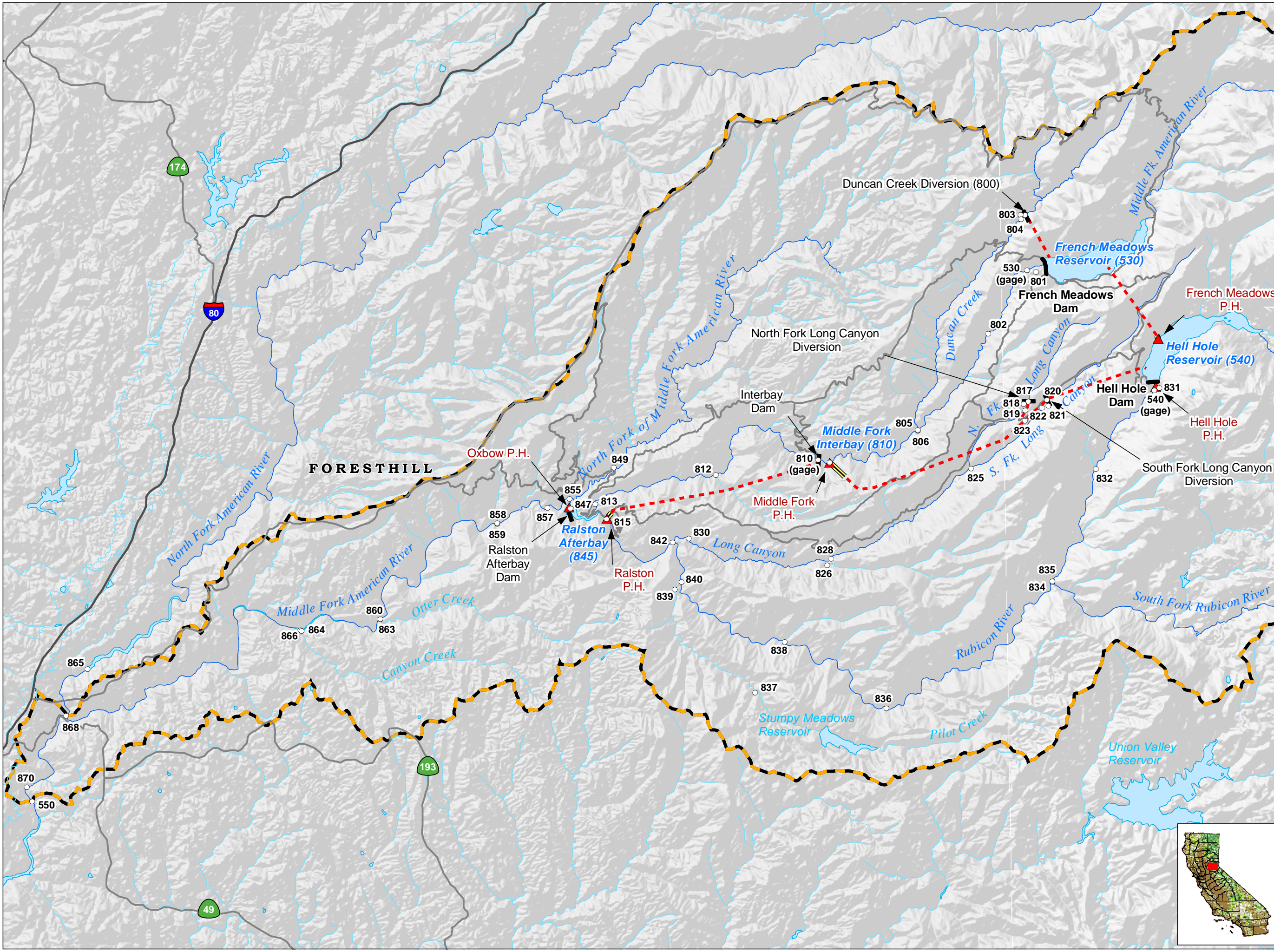
Location of Special-Status Mammals
in the Vicinity of the MFP
East Map



0 1 2 3
Miles

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

Date: 2/15/11



Project Facilities

- ▲ Powerhouse
- Dam
- - - Tunnel
- == Penstock

Transportation

- Major Road
- Minor Road

Hydrography

- Watercourse (with river miles)
- Water Body


Designated Boundary

- Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

Model Node Locations


- Node with ID



Placer County Water Agency
Middle Fork American River Project

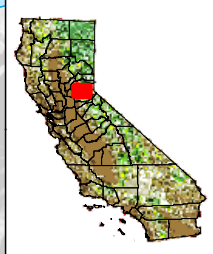
BA/BE Map 7

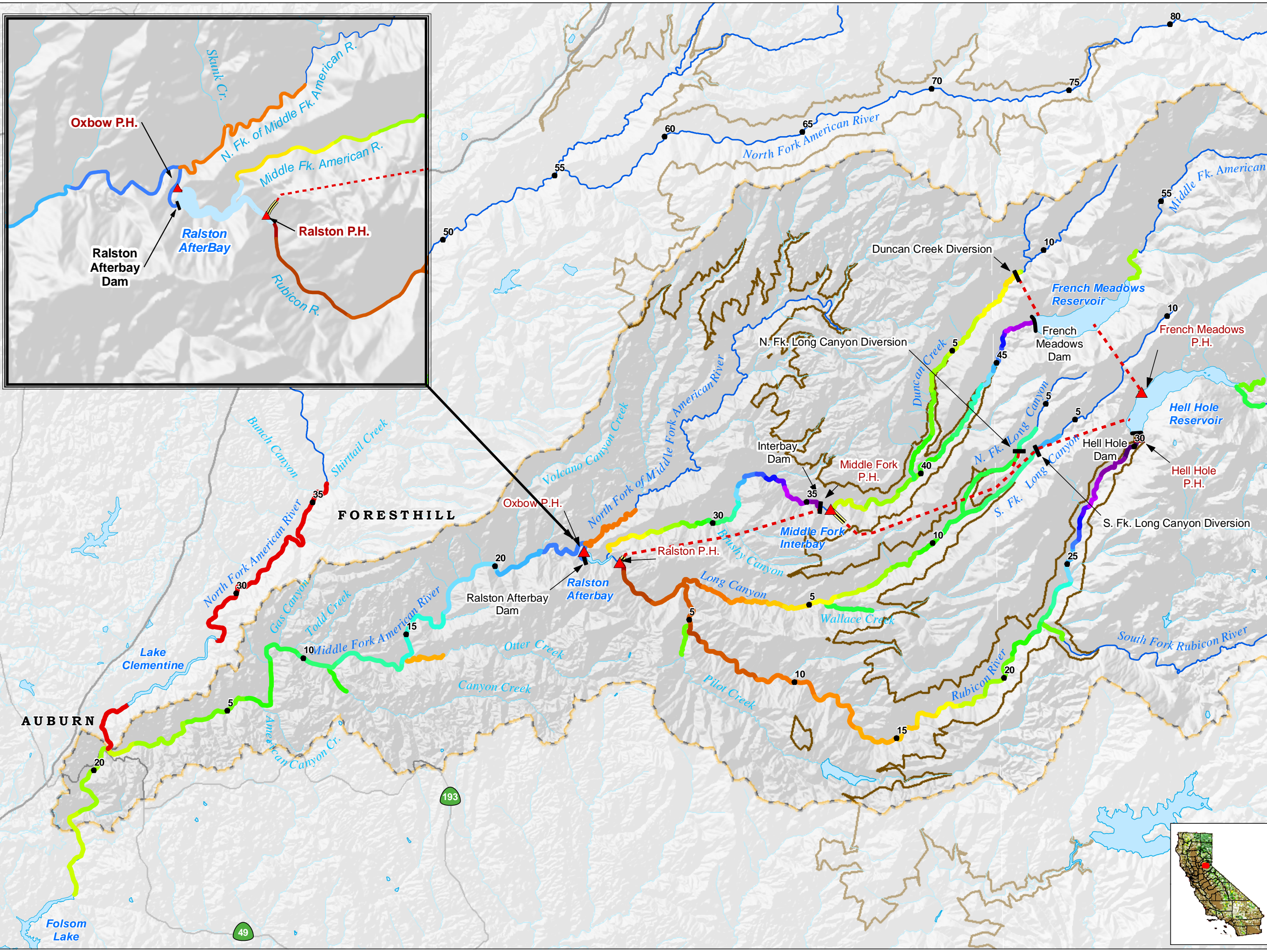
Water Supply Model Node Locations



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

Date: 2/15/11

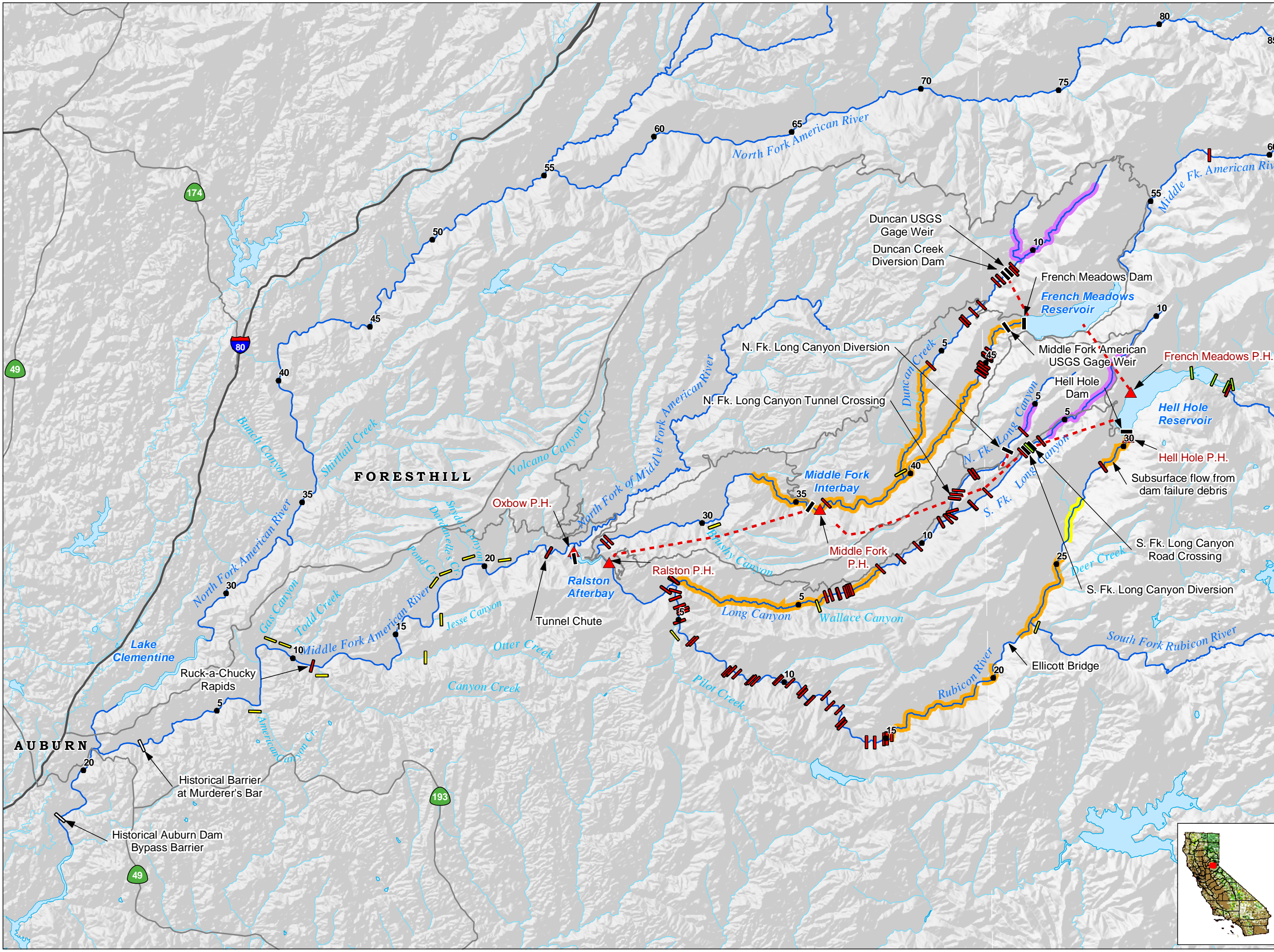




*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

PCWA
Placer County Water Agency
Middle Fork American River Project
BA/BE Map 8
Measured August 2007 Average Water Temperature in Project Streams (Temperature Values Linearly Interpolated between Monitoring Locations)

0 1 2 3 Miles
Projection: CA State Plane, Zone 2
Datum: NAD 83
Date: 2/15/11



- 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

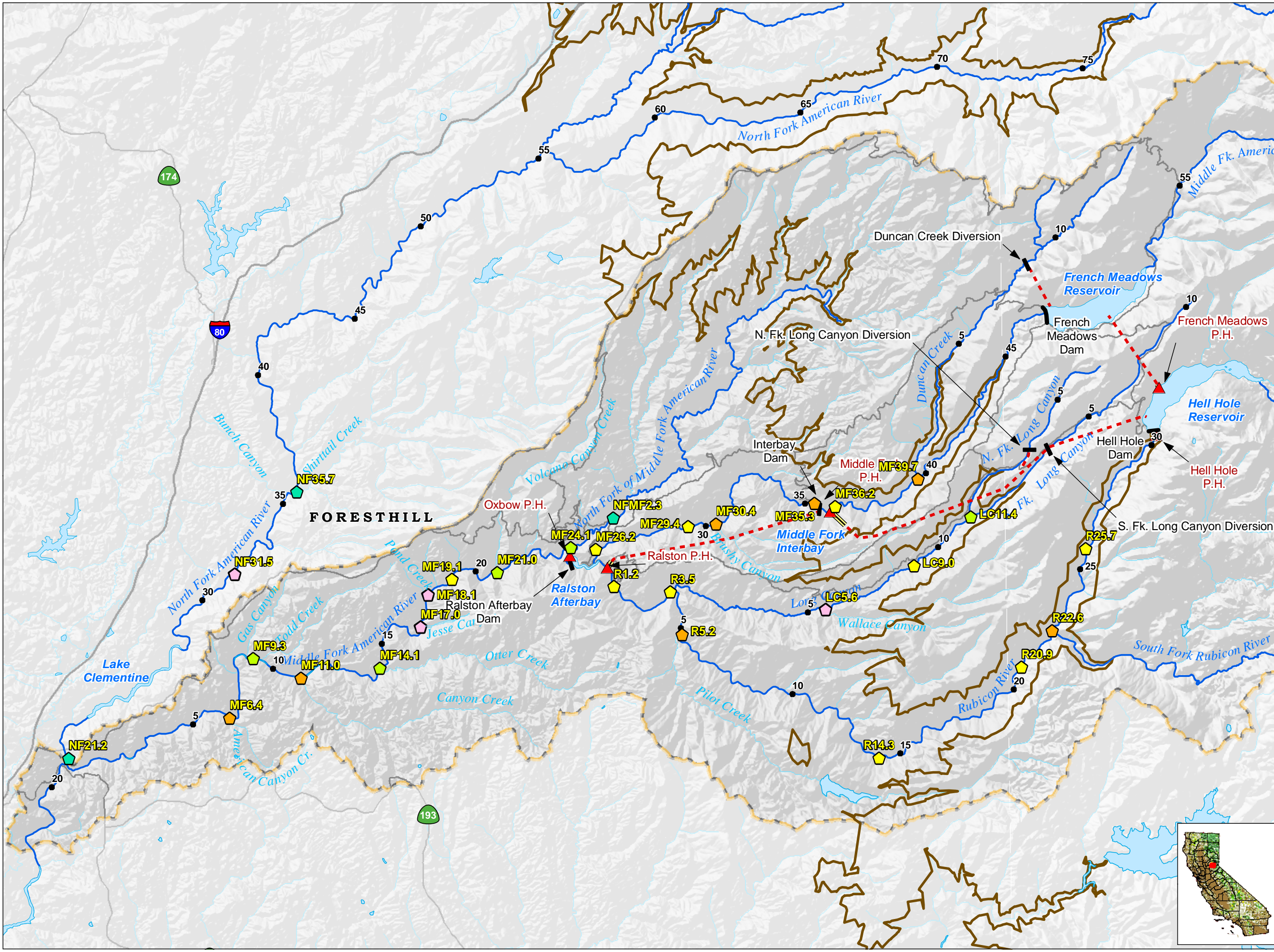
PCWA
Placer County Water Agency
Middle Fork American River Project

BA/BE Map 9
Fish Passage Barrier Locations and Frequency

0 1 2 3
Miles

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

Date: 2/15/11



- Project Facilities**
- Powerhouse
 - Dam
 - Tunnel
 - Penstock
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Water Body
 - Middle Fork American River Watershed*
- *Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake
- Hypsography**
- 4500' Elevation
- Study Sites and Qualitative Sampling Locations**
- Representative Sites Typically at 2006 Geomorphic and Riparian Quantification Study Sites (QSS)
 - Additional Study Sites
 - Potential Comparison Reach Study Sites
 - One-time Qualitative Sampling Location
 - Incidental One-time Site Visit

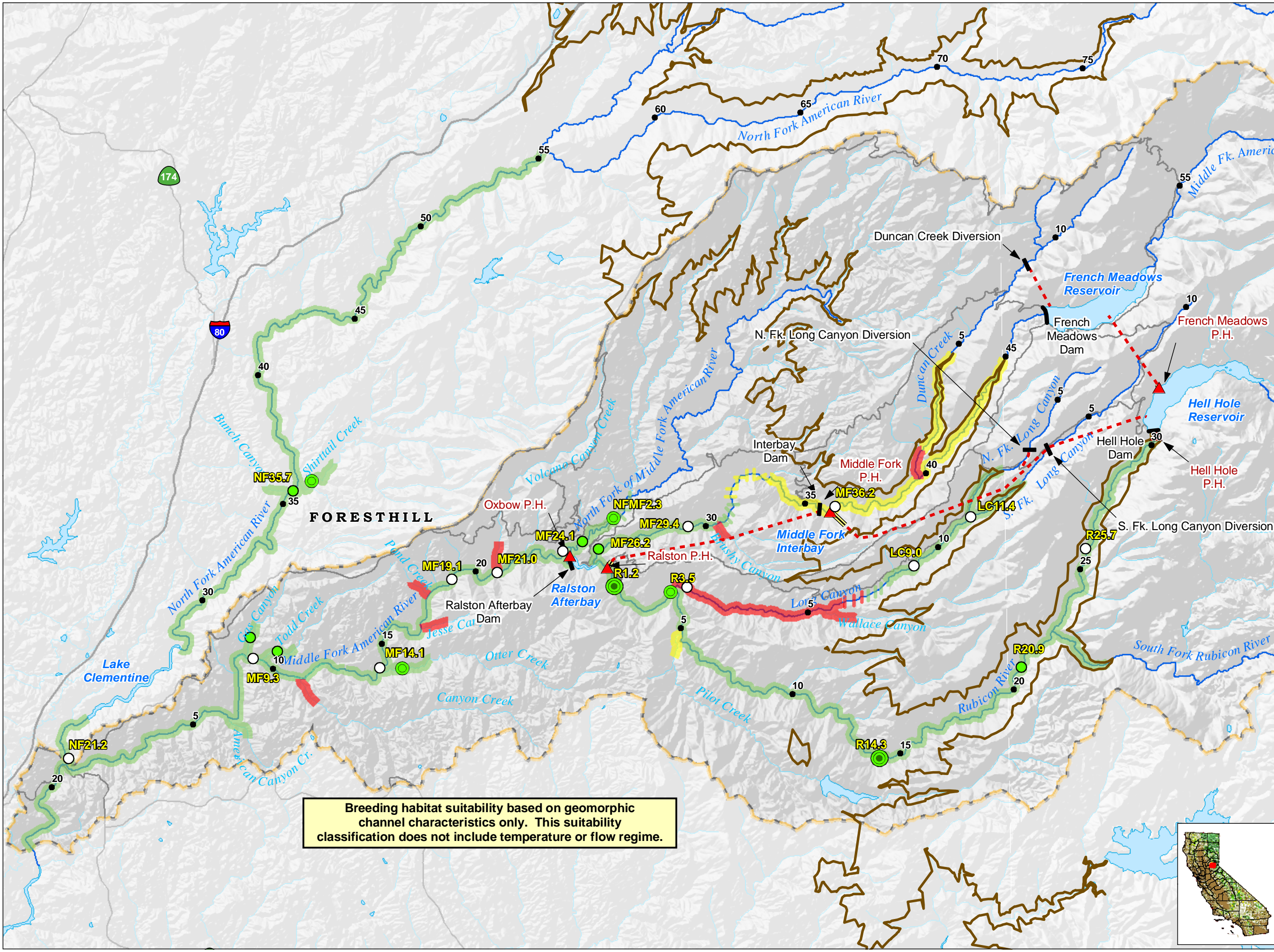
PCWA

Placer County Water Agency
Middle Fork American River Project

BA/BE Map 10
Foothill Yellow-Legged Frog
Study Site Locations

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

Date: 2/15/11



- Project Facilities**
- ▲ Powerhouse
 - Dam
 - - - Tunnel
 - === Penstock
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Water Body
 - Middle Fork American River Watershed*
- *Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake
- Hypsography**
- 4500' Elevation
- FYLF Habitat Suitability**
- Suitable
 - Limited - (Distribution of suitable habitat is patchy)
 - Unsuitable
 - Denotes transition zone between habitat suitability reaches
 - River not Assessed
- FYLF Spring Breeding Survey Study Sites**
- 0 Egg Masses Detected
 - 1 - 10 Egg Masses Detected
 - 11 - 20 Egg Masses Detected
 - 21 - 25 Egg Masses Detected

Breeding habitat suitability based on geomorphic channel characteristics only. This suitability classification does not include temperature or flow regime.

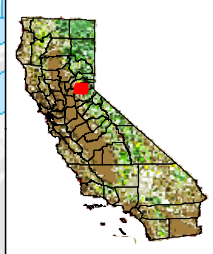
PCWA
Placer County Water Agency
Middle Fork American River Project

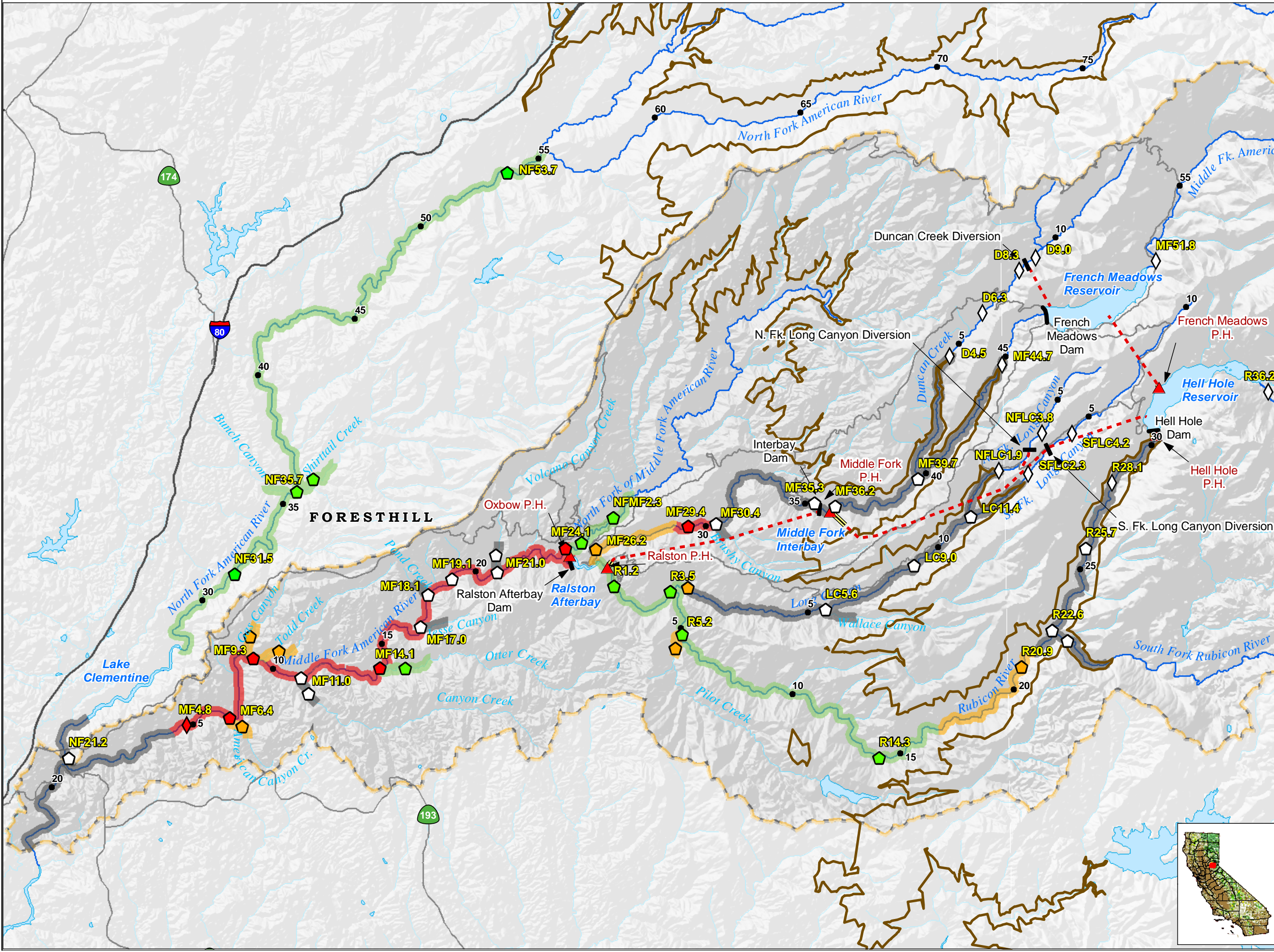
BA/BE Map 11
Foothill Yellow-Legged Frog
Habitat Suitability

0 1 2 3
Miles

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

Date: 2/15/11





Project Facilities

- ▲ Powerhouse
- Dam
- - - Tunnel
- === Penstock

Transportation

- Major Highway
- Minor Highway

Hydrography

- Watercourse with river miles (5 mi. increments)
- Water Body
- Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

Hypsography

- 4500' Elevation

Foothill Yellow-Legged Frog Abundance

- Abundant
- Common
- Rare
- Not observed

Incidental Observations during Fish Population, Geomorphic and Riparian Studies

- ◆ Rare
- ◇ Not Observed

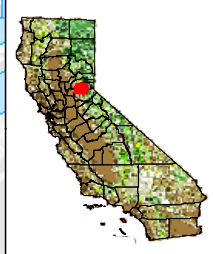
Inferred FYLF Abundance based on Study Site Observations

- Abundant
- Common
- Rare
- Not Observed
- Stream not surveyed



Placer County Water Agency
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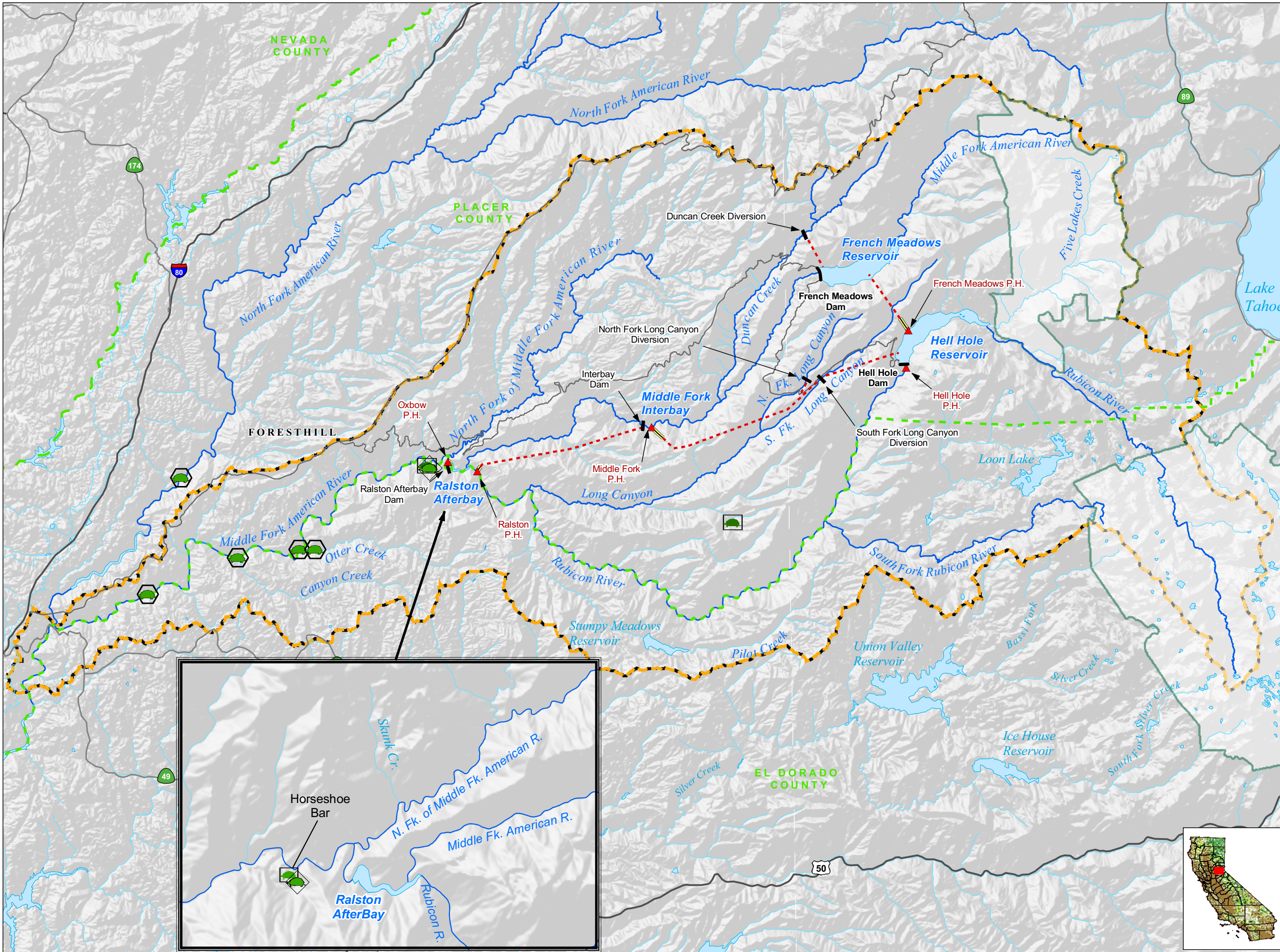
BA/BE Map 12
Foothill Yellow-Legged Frog
Distribution and Abundance



0 1 2 3
Miles


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

Date: 2/15/11




- Project Facilities**
- ▲ Powerhouse
 - Dam
 - Tunnel
 - PenstockBA/BE M
- Transportation**
- Major Road
 - Minor Road
- Hydrography**
- Watercourse
 - Water Body
 - Middle Fork American River Watershed*
- Designated Boundary**
- County Boundary
 - Wilderness Area
- Western Pond Turtle Sightings**
- CNDDDB Data (Point)
 - USFS Data
 - Jones & Stokes (2002) Data
 - ENTRIX (2007) Data


*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

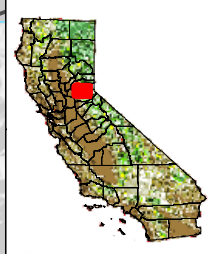


Placer County Water Agency
Middle Fork American River Project
BA/BE Map 13

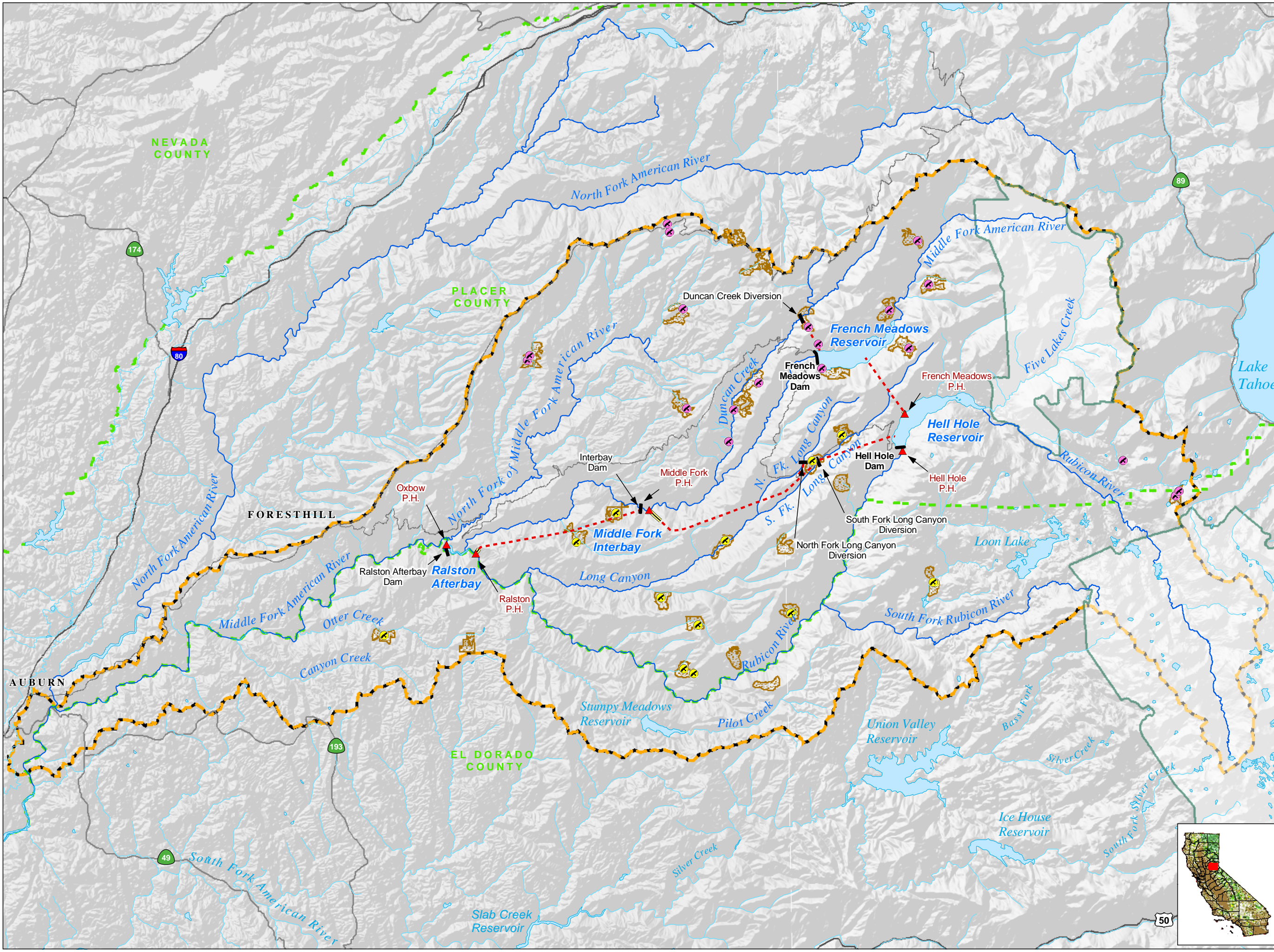
**Western Pond Turtle Incidental Sightings
in the Middle Fork American River Watershed**







Projection: CA State Plane, Zone 2
Datum: NAD 83
Date: 12/11/07



Project Facilities

- ▲ Powerhouse
- Dam
- - - Tunnel
- == Penstock

Transportation

- Major Road
- Minor Road

Hydrography

- Watercourse
- Water Body
- Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

Designated Boundary

- County Boundary
- Wilderness Area

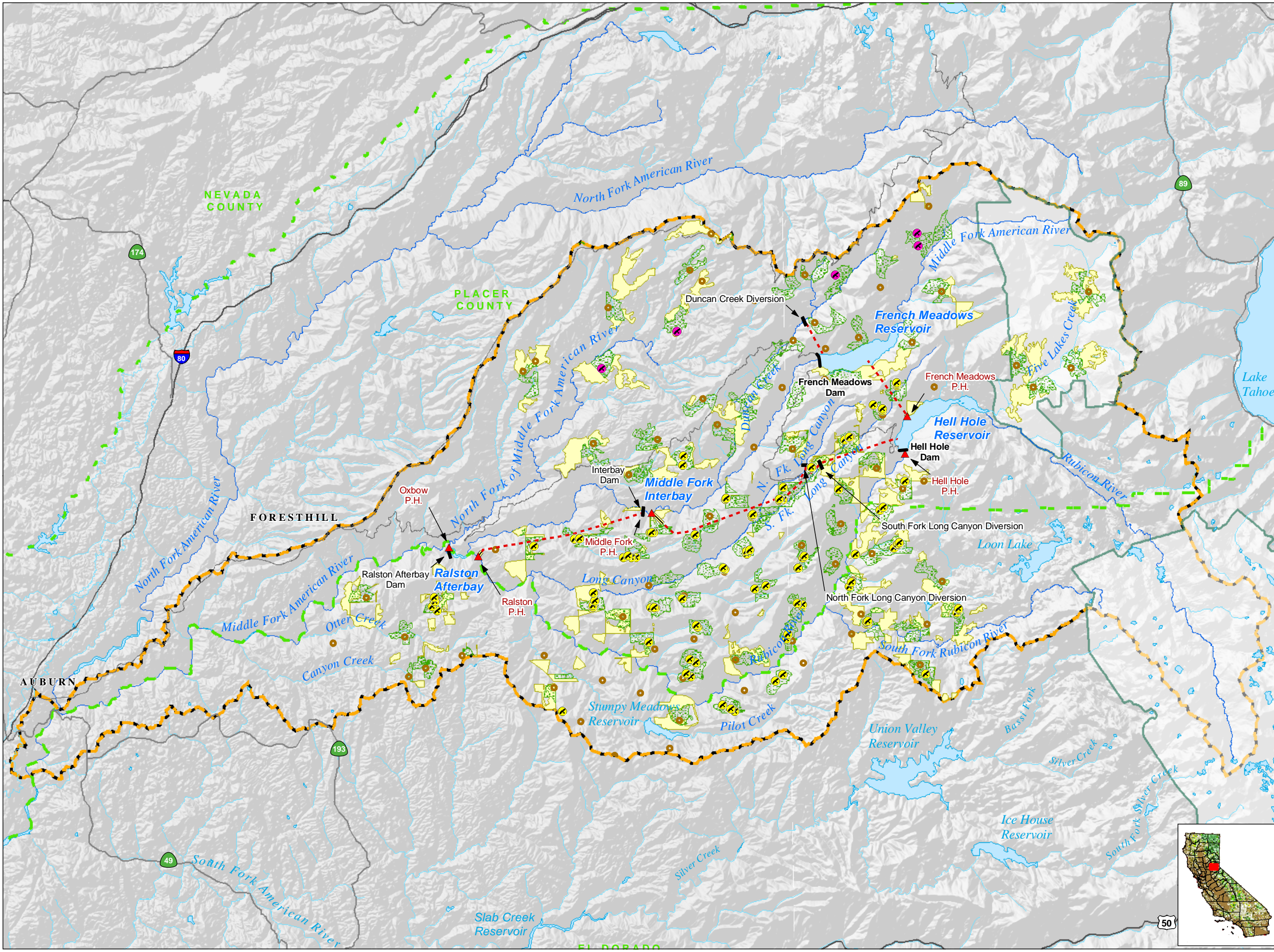
Northern Goshawk Data (with source)

- Northern Goshawk Protected Activity Center "PAC" (ENF and TNF)
- Northern Goshawk Nests (TNF only)
- Northern Goshawk Nests (ENF only)

PCWA
Placer County Water Agency
Middle Fork American River Project

BA/BE Map 15
Northern Goshawk PACs and Nest Trees Present in the Middle Fork American River Watershed

0 1 2 3 4 5 Miles
Projection: CA State Plane, Zone 2
Datum: NAD 83
Date: 2/15/11



- Project Facilities**
- Powerhouse
 - Dam
 - Tunnel
 - Penstock
- Transportation**
- Major Road
 - Minor Road
- Hydrography**
- Watercourse
 - Water Body
 - Middle Fork American River Watershed*
- *Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake
- Designated Boundary**
- County Boundary
 - Wilderness Areas
- Spotted Owl Data (with Source)**
- Spotted Owl Protected Activity Center "PAC" (USFSR5)
 - Spotted Owl Home Range Core Area "HRCA" (USFSR5)
 - Spotted Owl Nests (TNF only)
 - Spotted Owl Nests (ENF only)
 - Spotted Owl Nests (USFSR5)

PCWA

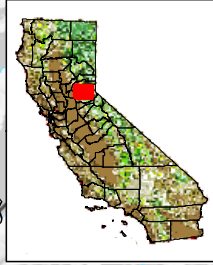
Placer County Water Agency
Middle Fork American River Project

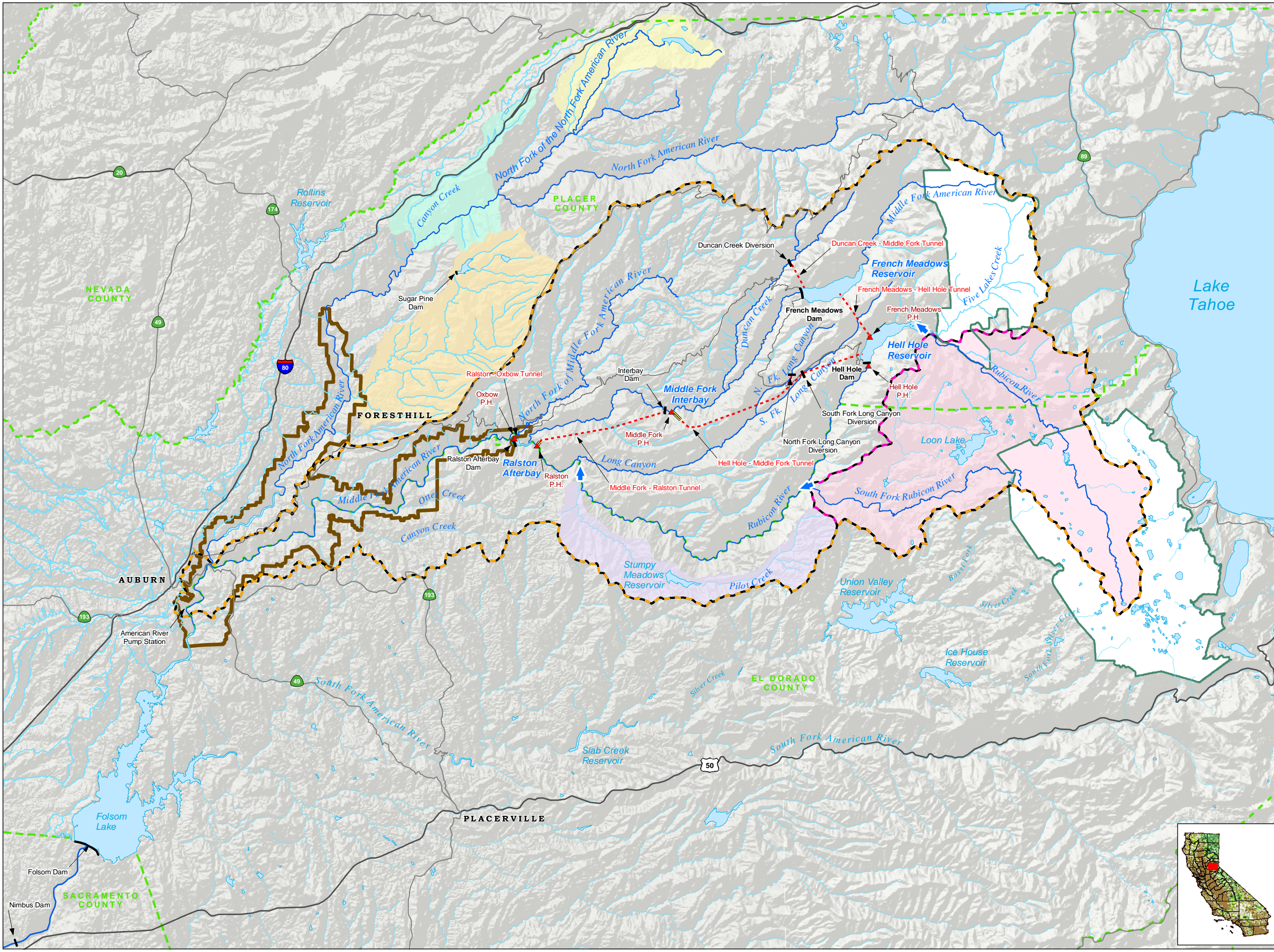
BA/BE Map 16

California Spotted Owl PACs, Nest Trees and Home Range Core Areas Present in the Middle Fork American River Watershed

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

Date: 2/15/11





Project Facilities

- ▲ Powerhouse
- Dam
- Tunnel
- Penstock

Transportation

- Major Road
- Minor Road

Hydrography

- Watercourse
- Water Body
- Watershed Influenced by SMUD
- Watershed Influenced by GDPUD
- Watershed Influenced by FPUD
- Watershed Influenced by PG&E
- Watershed Influenced by PCWA and PG&E
- Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

- ▲ Affected Flow

Designated Boundary

- County Boundary
- Wilderness Area
- Auburn Project Lands**

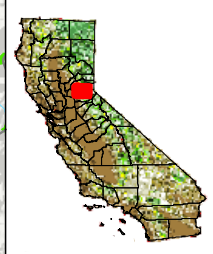
**SOURCE: USBOR, MPGIS Service Center



Placer County Water Agency
Middle Fork American River Project

BA/BE Map 17

Principal Project Facilities and Geographic Setting



0 1 2 3 4 5
Miles

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

Date: 2/15/11