

Middle Fork Project Facts and Figures

PROJECT SUMMARY

Project Completed	1967
Total Energy Production Capacity:	223.7 MW
Average Annual Energy Production:	1,039,078 MWh
Total Gross Water Storage:	345,560 acre-feet (af)
Earth and Rockfill Dams:	11,900,000 cubic yards
Concrete Dams and Diversions:	94,000 cubic yards
Tunnels and Penstocks:	23.2 miles

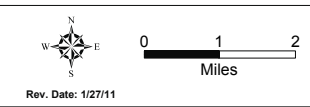
RESERVOIRS AND DIVERSIONS	Elevation	Storage Capacity
Duncan Creek Diversion	5,265'	20 af
French Meadows Reservoir	5,244.5'	134,993 af
Hell Hole Reservoir	4,630'	207,590 af
North Fork Long Canyon Diversion	4,716'	0.39 af
South Fork Long Canyon Diversion	4,640'	0.83 af
Middle Fork Interbay	2,529'	175 af
Ralston Afterbay	1,179'	2,782 af

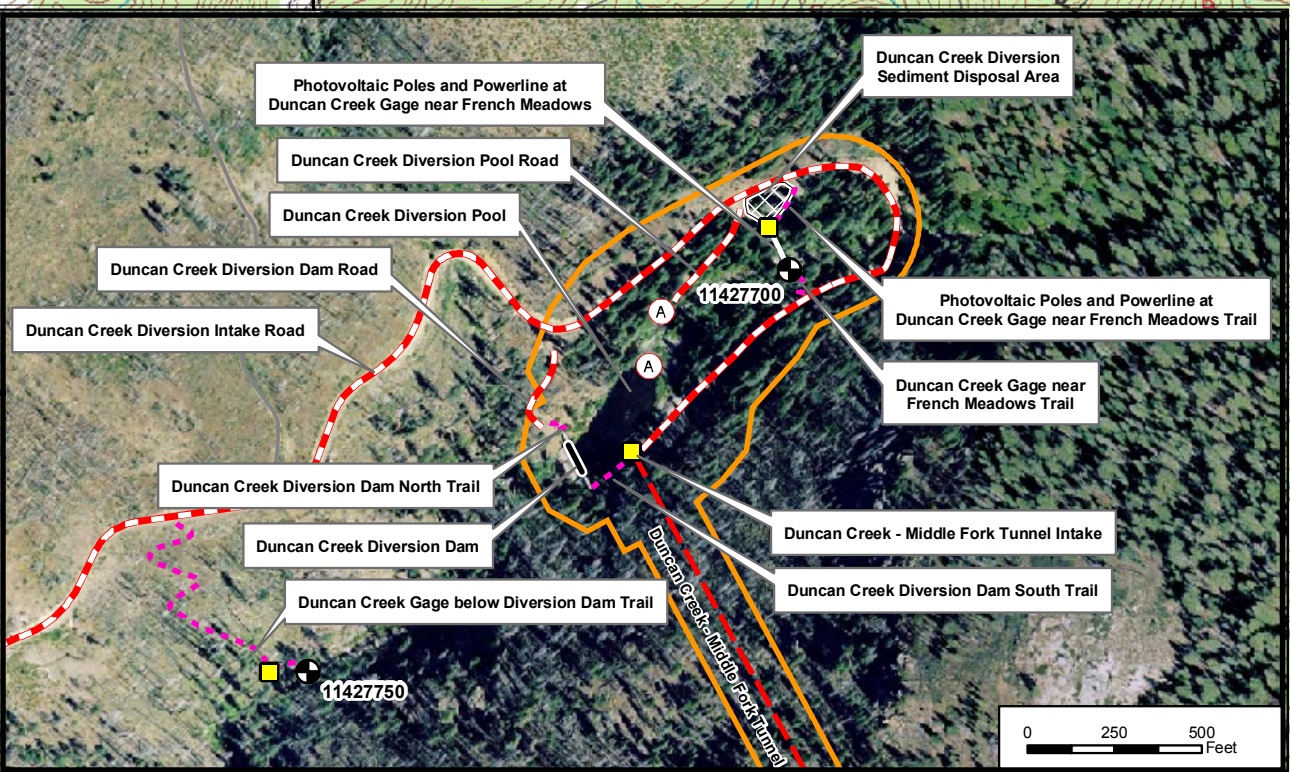
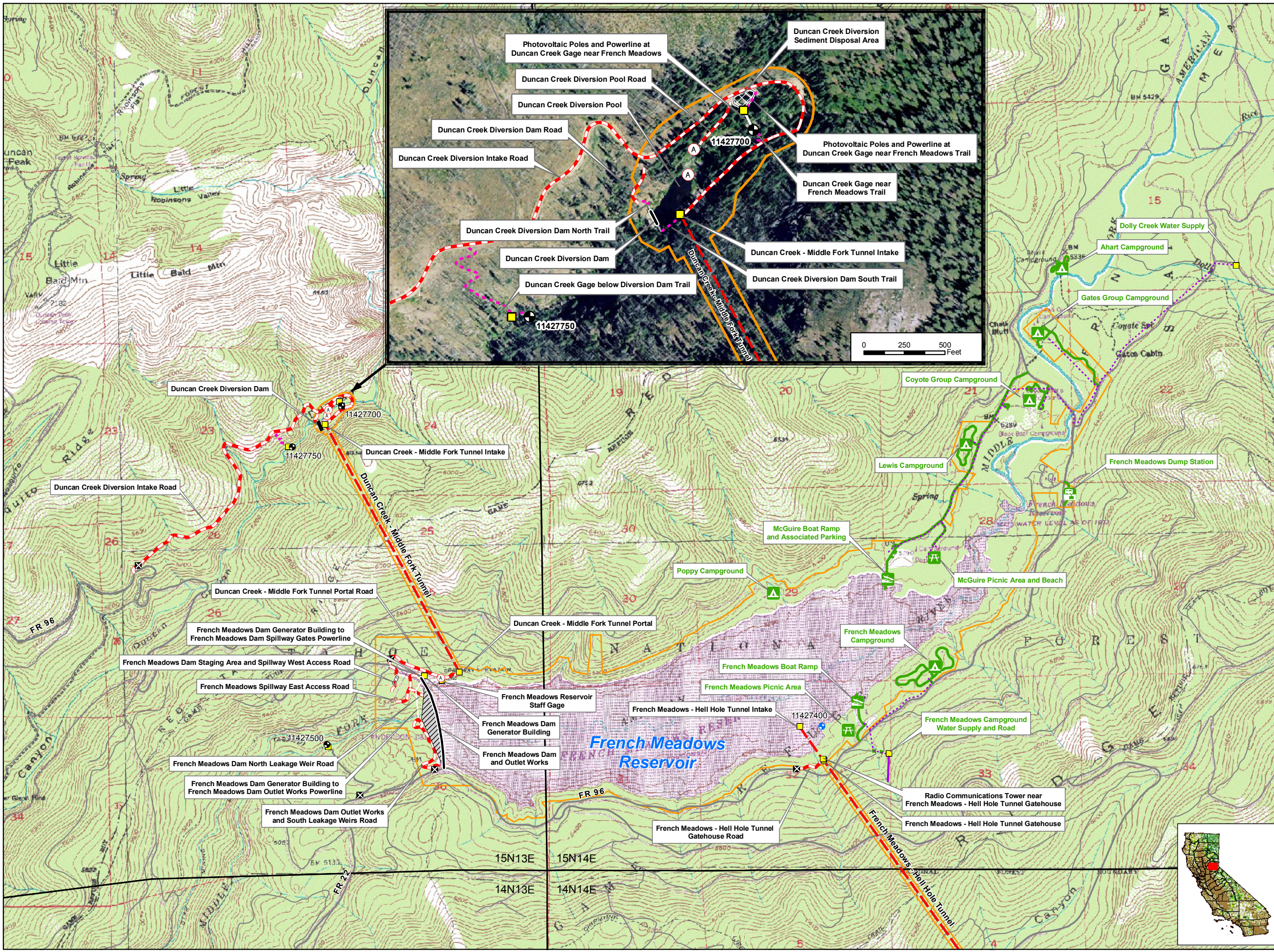
POWERHOUSES	Elevation	Production Capacity
French Meadows Powerhouse	4,630'	15.3 MW
Hell Hole Powerhouse	4,240'	0.73 MW
Middle Fork Powerhouse	2,529'	122.4 MW
Ralston Powerhouse	1,175'	79.2 MW
Oxbow Powerhouse	1,089'	6.1 MW

TUNNELS	Discharge Capacity
Duncan Creek-Middle Fork Tunnel	- 400 cfs
French Meadows-Hell Hole Tunnel	- 400 cfs
Hell Hole-Middle Fork Tunnel	- 920 cfs
Middle Fork-Ralston Tunnel	- 836 cfs
Ralston-Oxbow Tunnel	- 1,088 cfs



Placer County Water Agency
Middle Fork American River Project
Map 3-1
Middle Fork Project and Vicinity



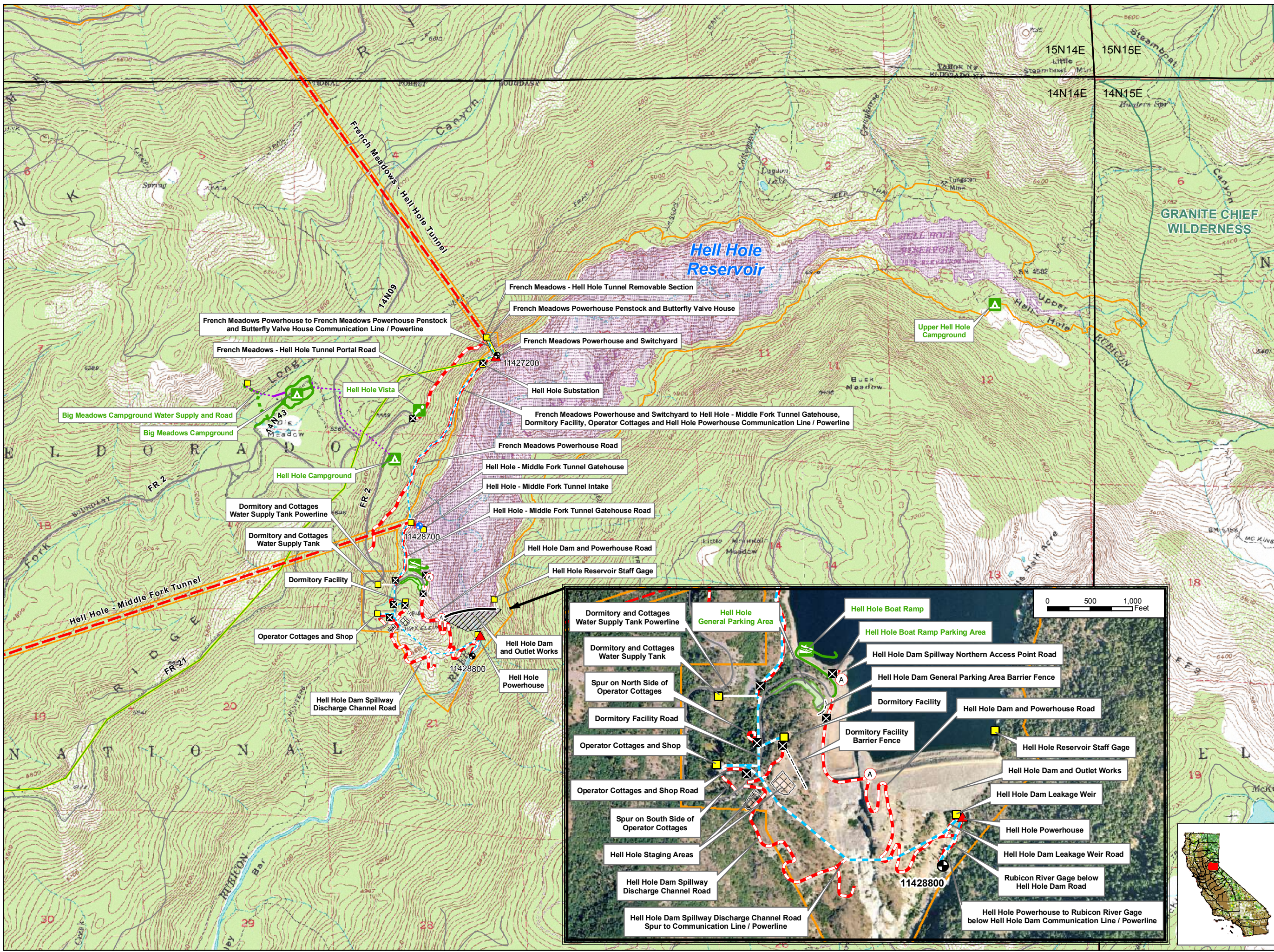


- PCWA Facilities and Features**
- Dam
 - Ancillary and Other Facilities
 - Powerhouse
 - Gage
 - Reservoir Gage
 - Penstock
 - Tunnel
 - Pipeline
 - Gate
 - Access Point
 - Public Safety Fence
 - FERC Boundary
- Project Power and Communication Lines:**
- Communication
 - Power
 - Power (underground)
 - 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

Map 3-2a
Duncan Creek, French Meadows Area

0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 2/1/11



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Other Facilities

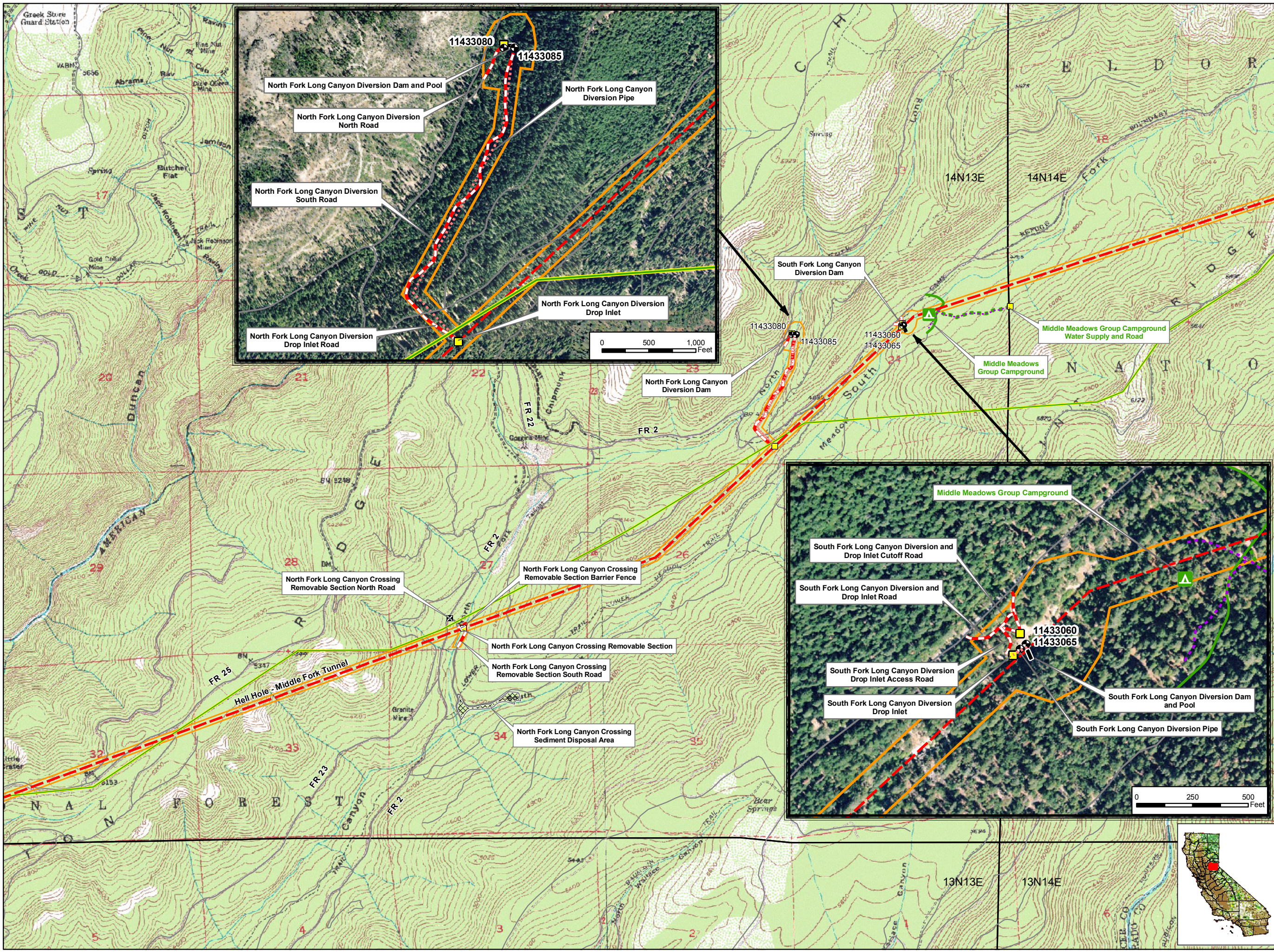
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PCWA
Placer County Water Agency
Middle Fork American River Project

Map 3-2b
Hell Hole Area

0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 2/9/11

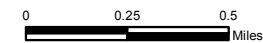


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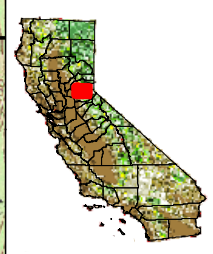
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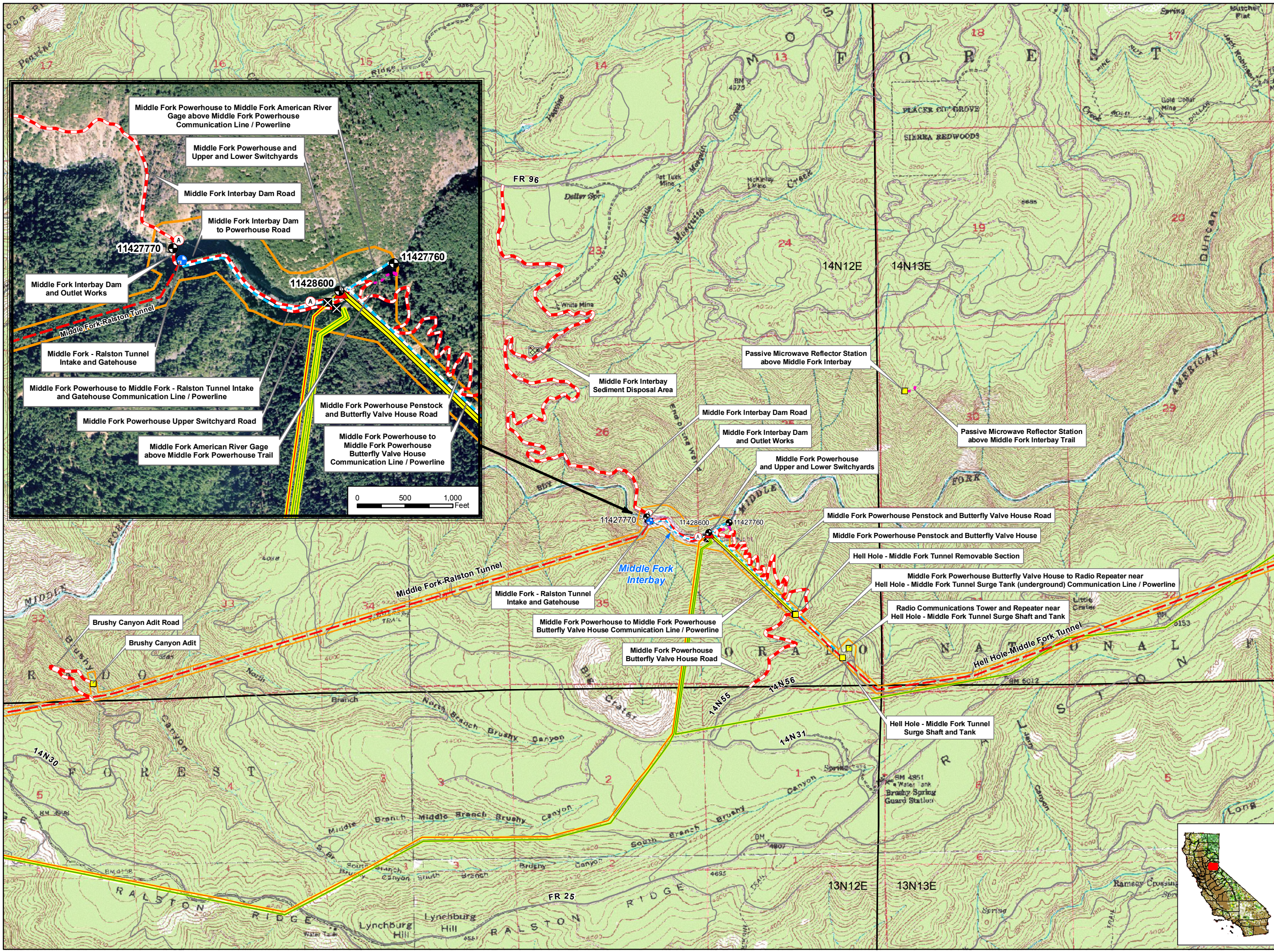
Map 3-2c
Long Canyon Area



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

Date: 2/1/11





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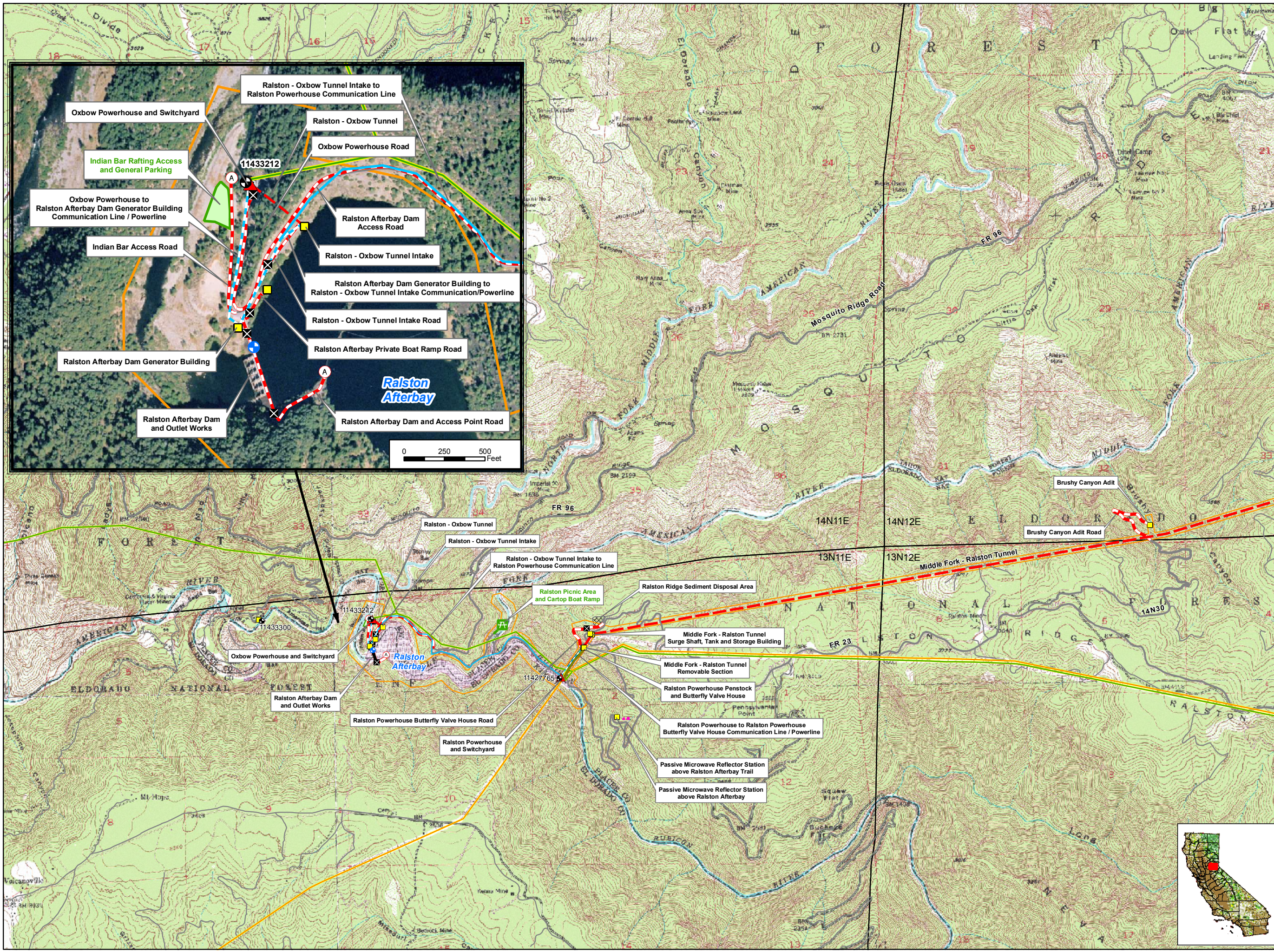
PCWA

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Middle Fork American River Project

Map 3-2d
Middle Fork Interbay Area

0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 2/1/11



PCWA Facilities and Features

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- PG & E Transmission Lines:**
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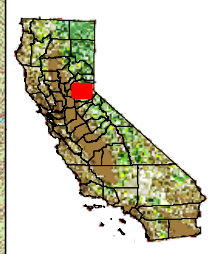


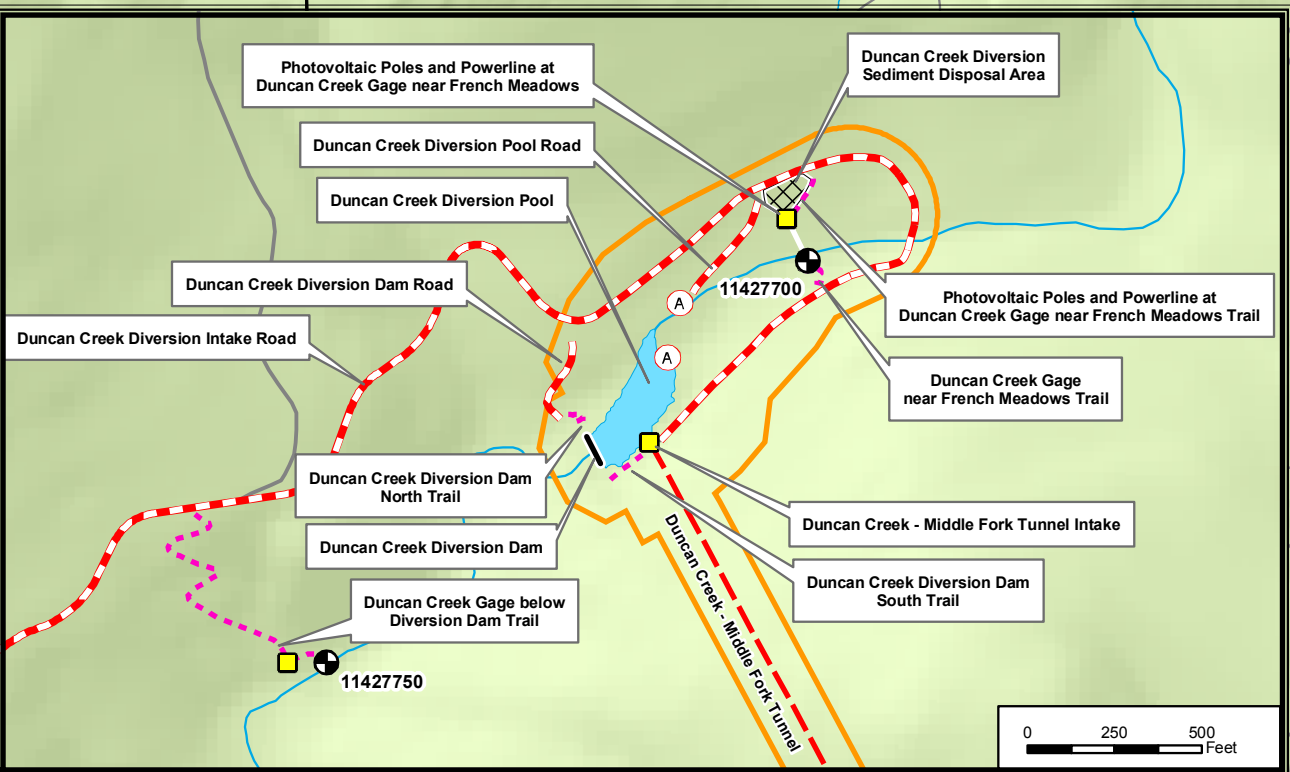
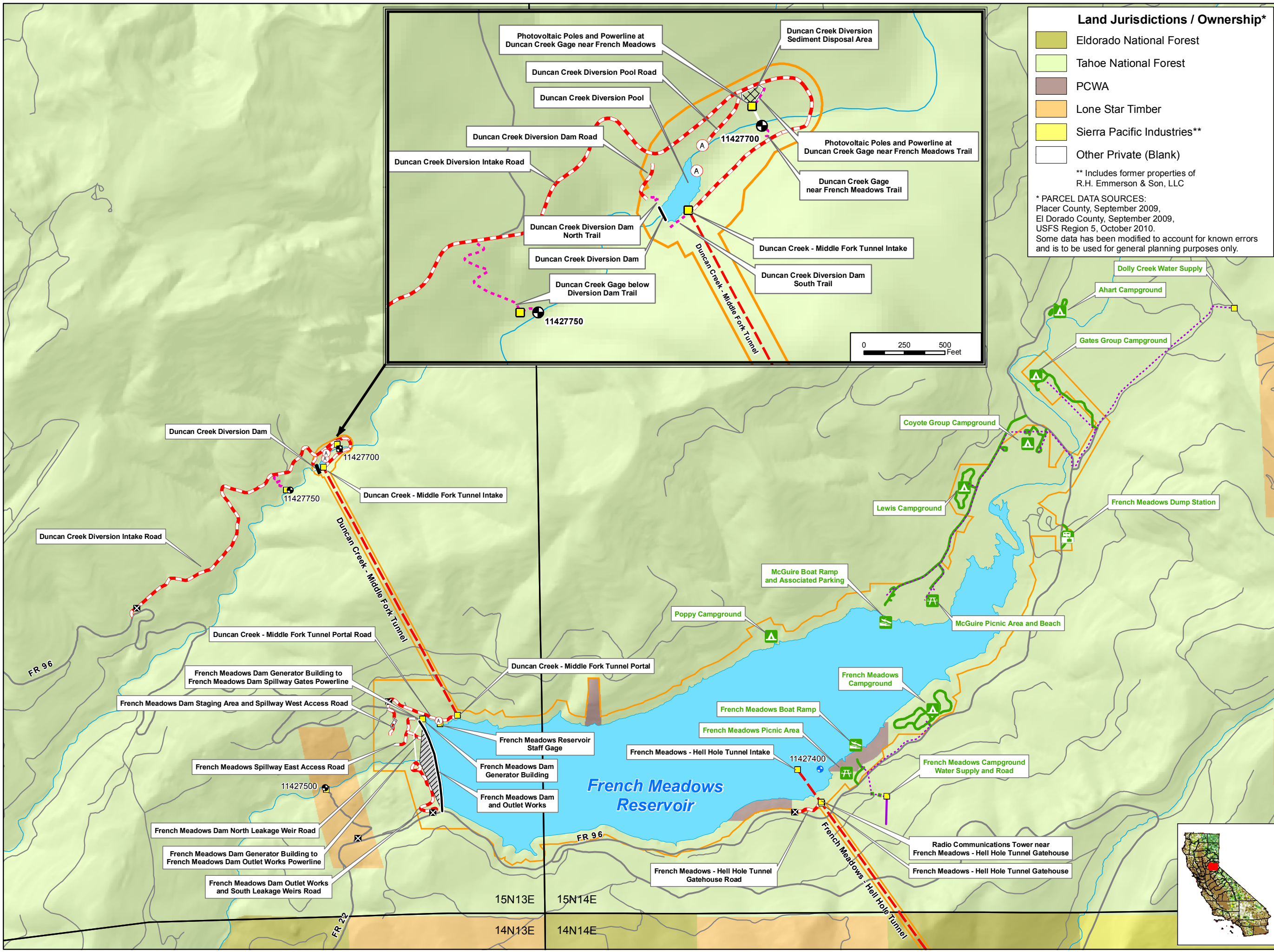
Placer County Water Agency
Middle Fork American River Project

Map 3-2e

Ralston, Oxbow Area

0 0.25 0.5 Miles
 Projection: Ca. Stateplane, Zone 2
 Datum: NAD 83
 Date: 2/1/11





Land Jurisdictions / Ownership*

- Eldorado National Forest
- Tahoe National Forest
- PCWA
- Lone Star Timber
- Sierra Pacific Industries**
- Other Private (Blank)

** Includes former properties of R.H. Emmerson & Son, LLC

* PARCEL DATA SOURCES:
 Placer County, September 2009,
 El Dorado County, September 2009,
 USFS Region 5, October 2010.
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PCWA Facilities and Features

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- Gate
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Project Power and Communication Lines:

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- Communication/Power
- Communication/Power (underground)

Transportation

- Road
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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

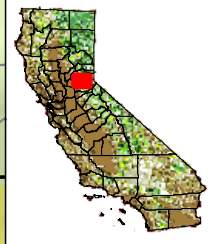
PG & E Transmission Lines:

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Placer County Water Agency
 Middle Fork American River Project

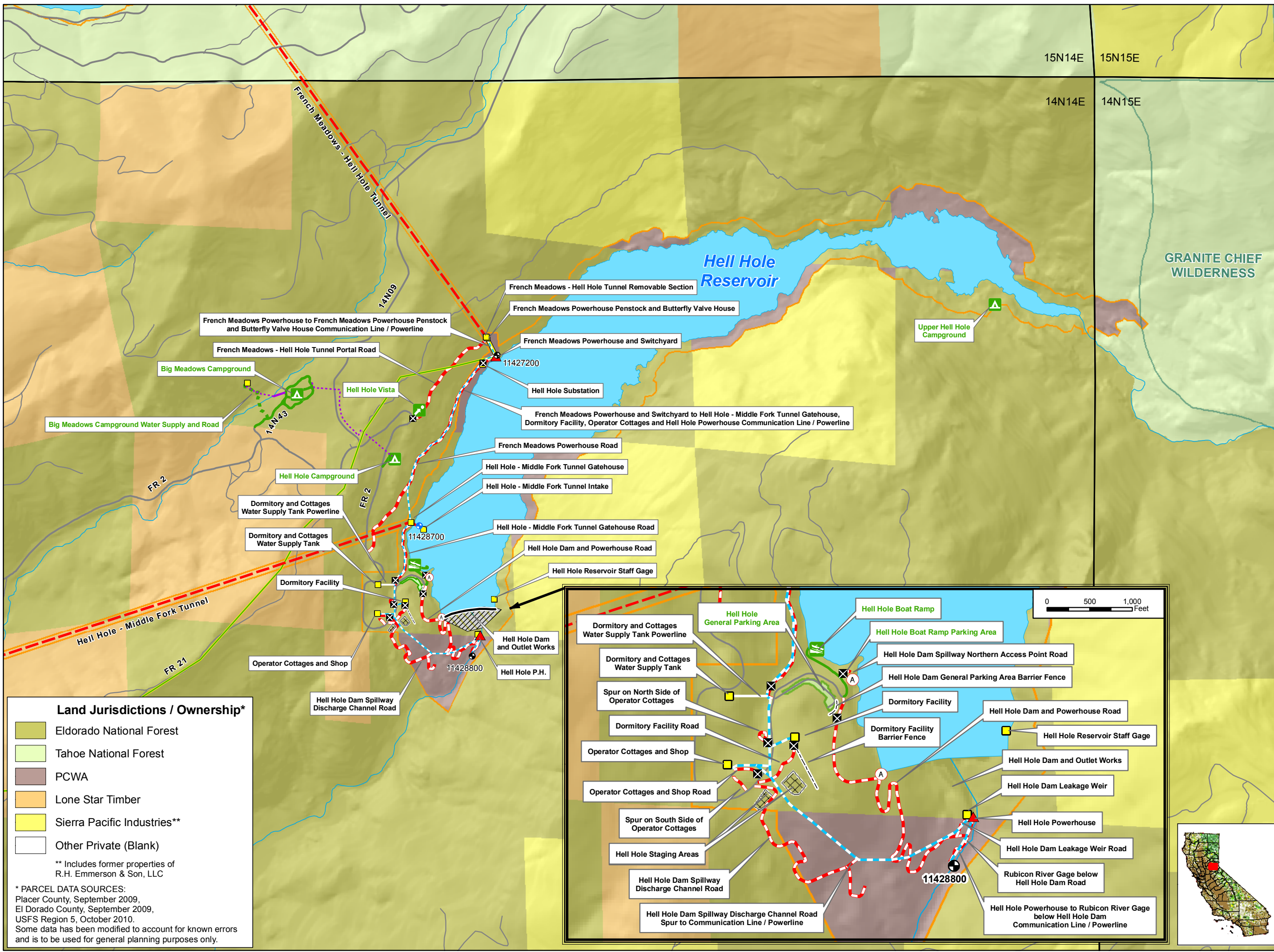
Map 3-3a
Land Jurisdictions in the Immediate Vicinity of the Middle Fork Project
Duncan Creek, French Meadows Area



0 0.25 0.5 Miles

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

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Other Facilities

PG & E Transmission Lines:

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Land Jurisdictions / Ownership*

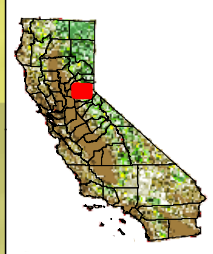
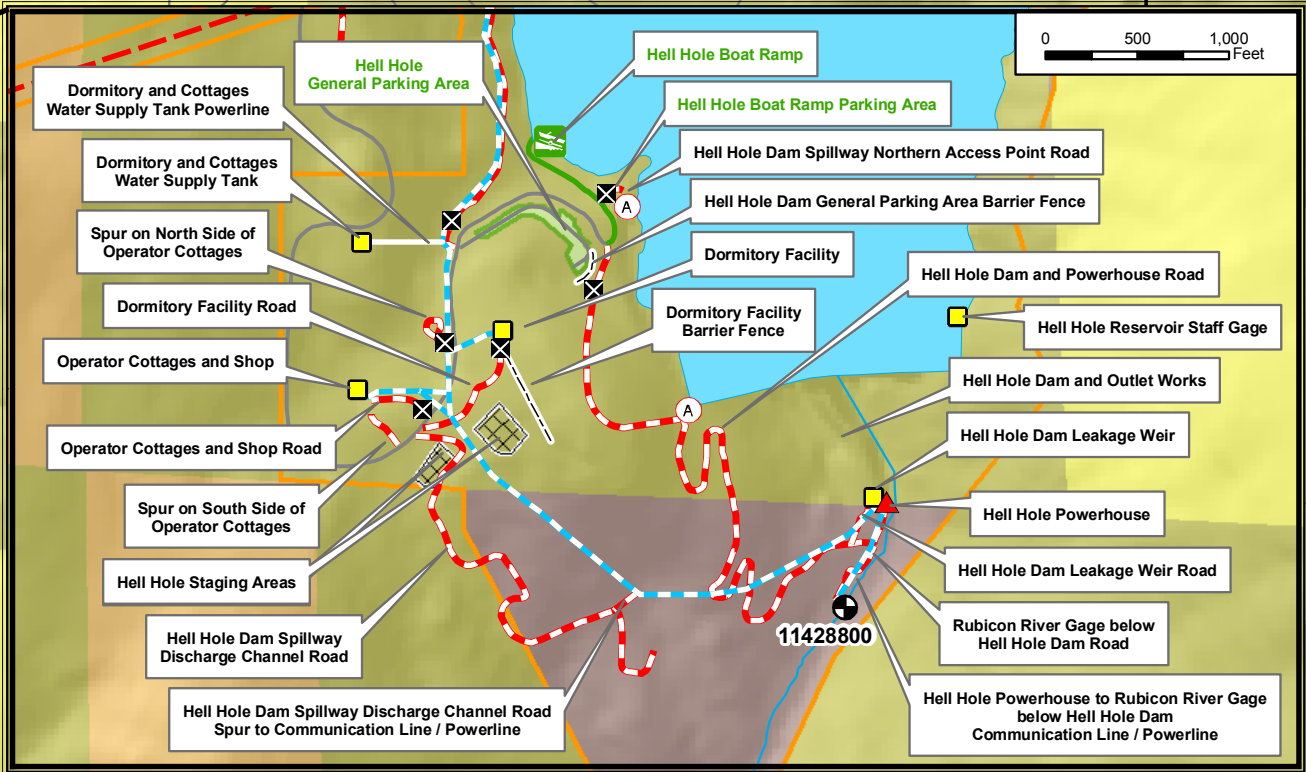
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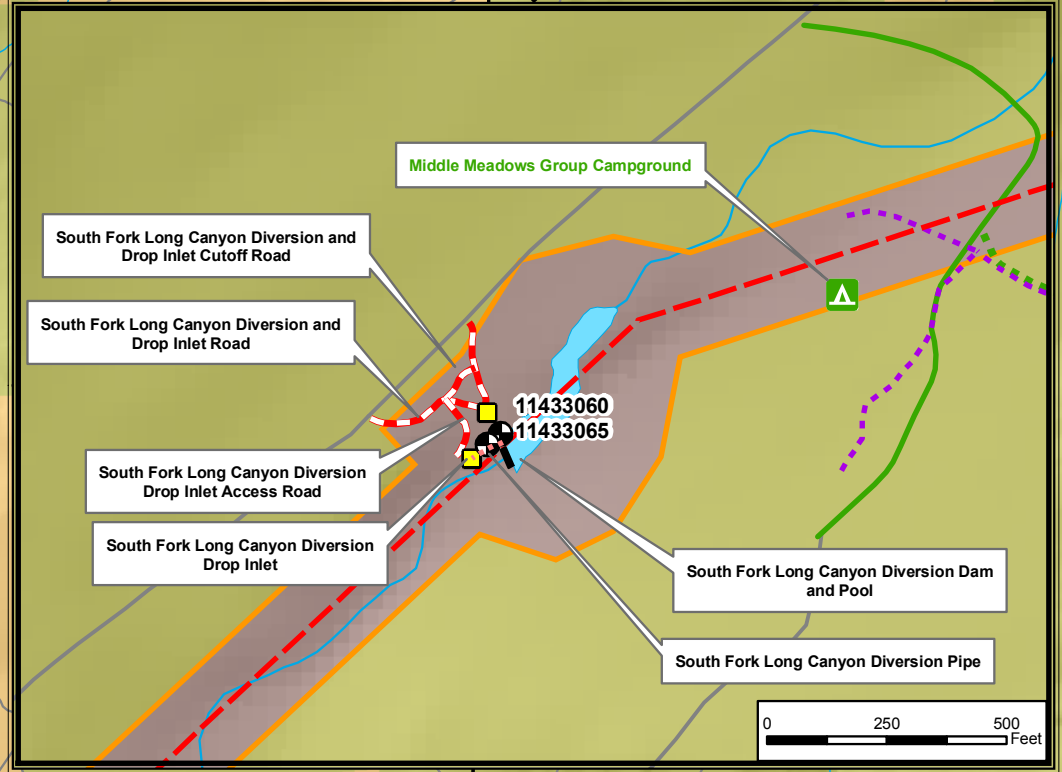
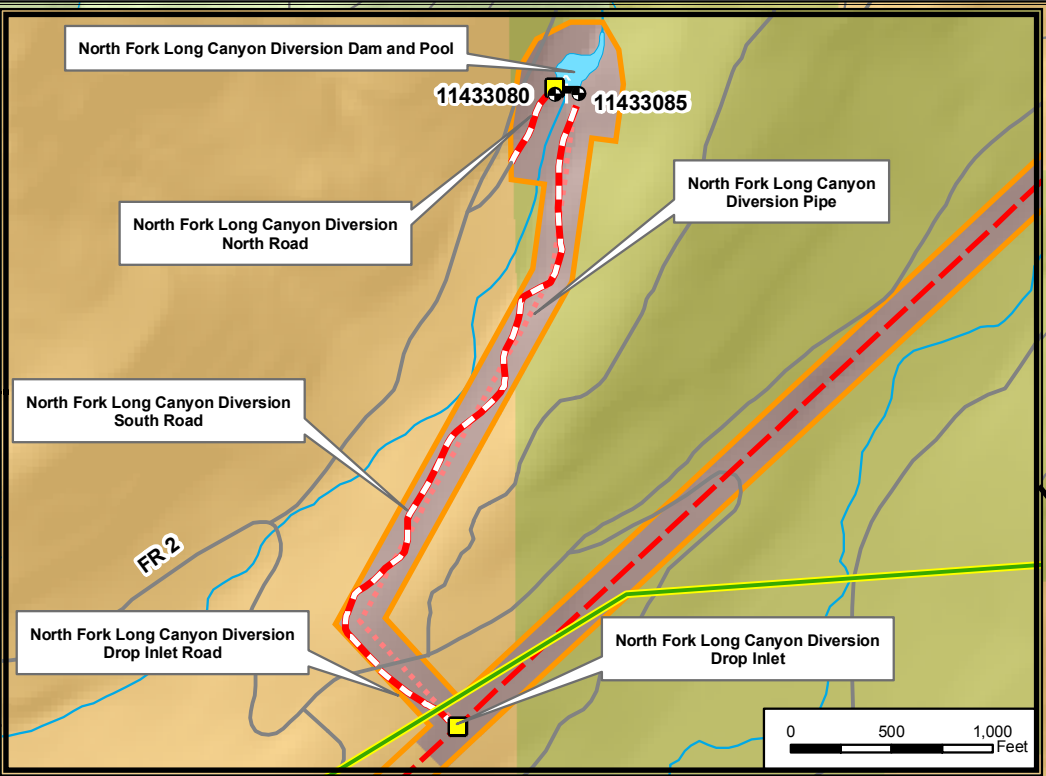
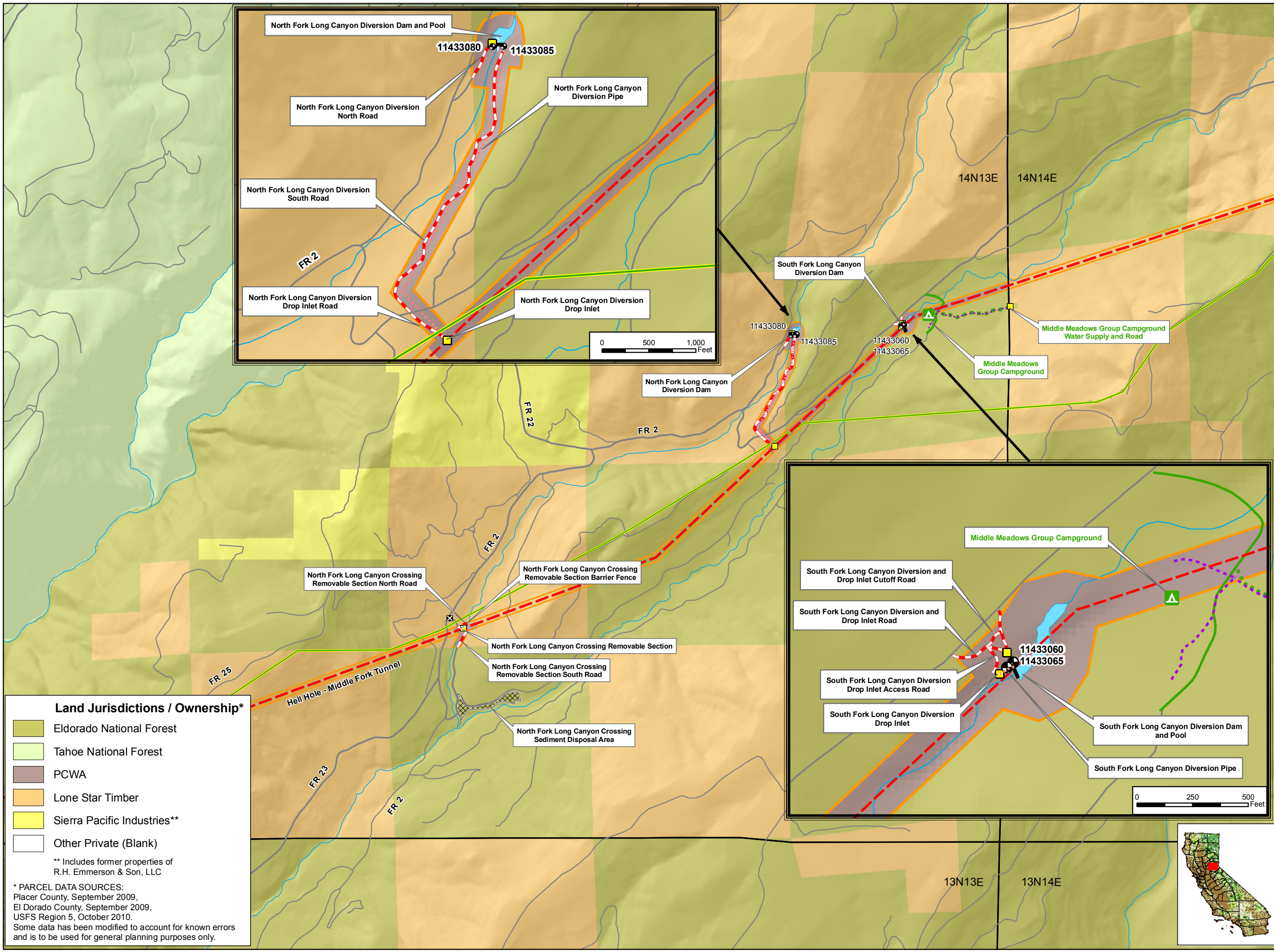
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PCWA
 Placer County Water Agency
 Middle Fork American River Project
Map 3-3b
 Land Jurisdictions in the Immediate Vicinity of the Middle Fork Project
 Hell Hole Area

0 0.25 0.5 Miles
 Projection: Ca. Stateplane, Zone 2
 Datum: NAD 83
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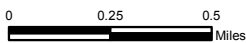
Other Facilities

PG & E Transmission Lines:

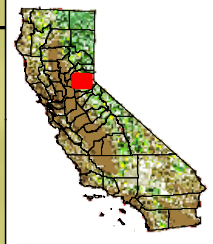
- 230 kV
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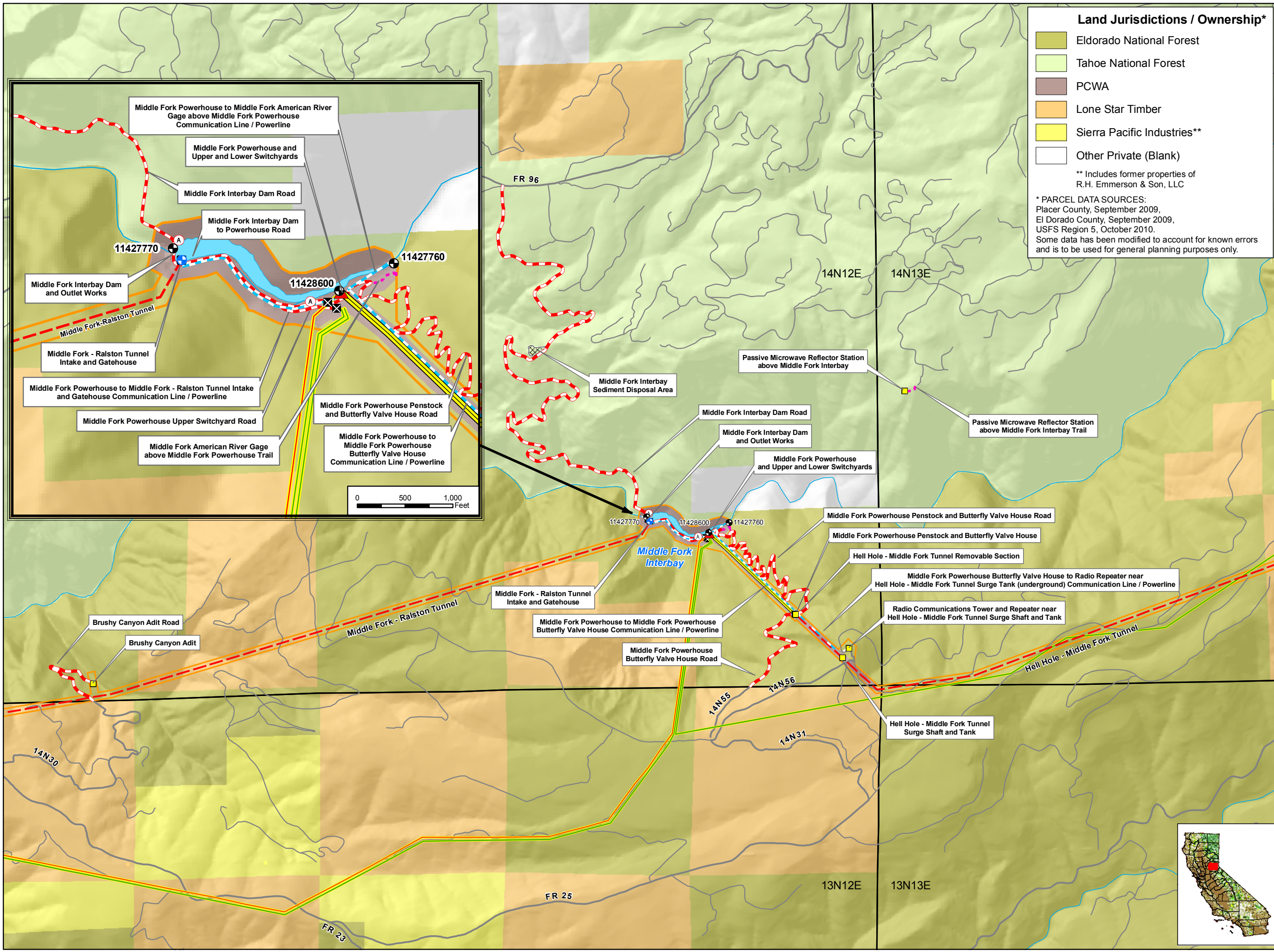
Placer County Water Agency
 Middle Fork American River Project
Map 3-3c
 Land Jurisdictions in the Immediate Vicinity of the Middle Fork Project
 Long Canyon Area



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



Date: 2/1/11



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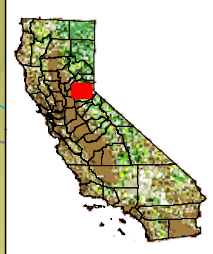
Other Facilities

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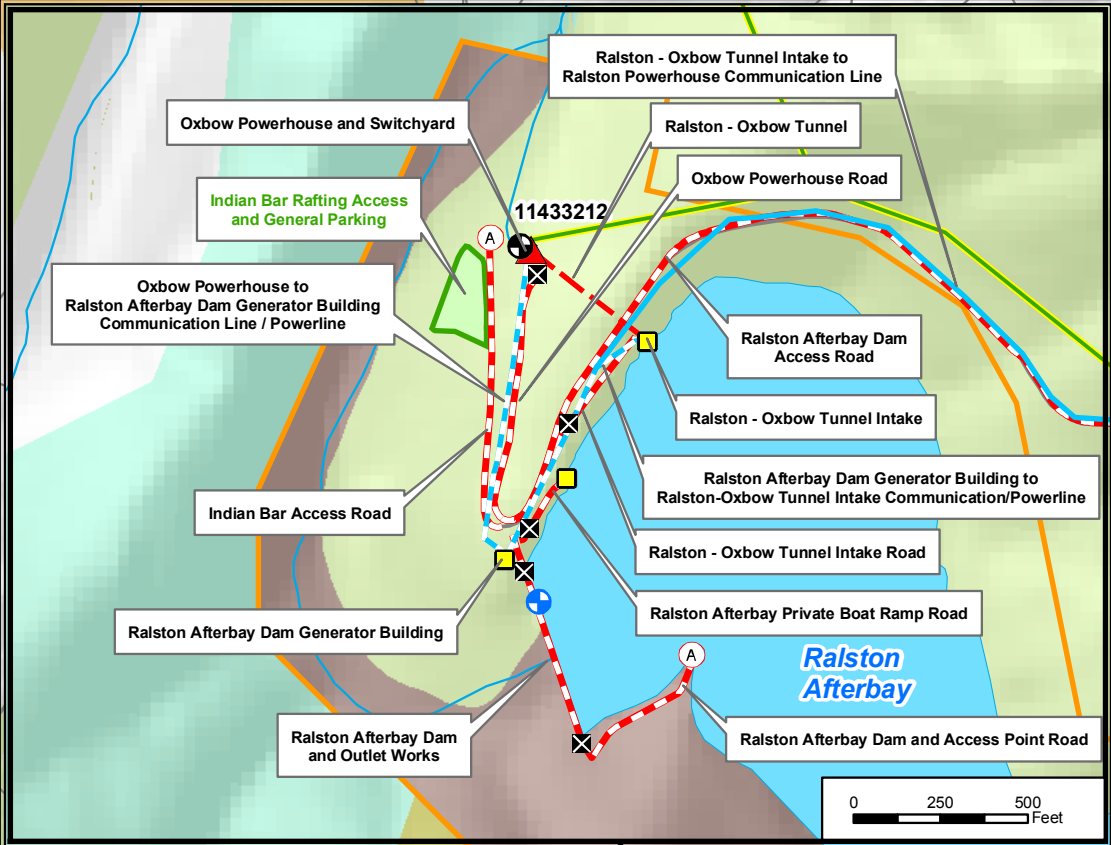
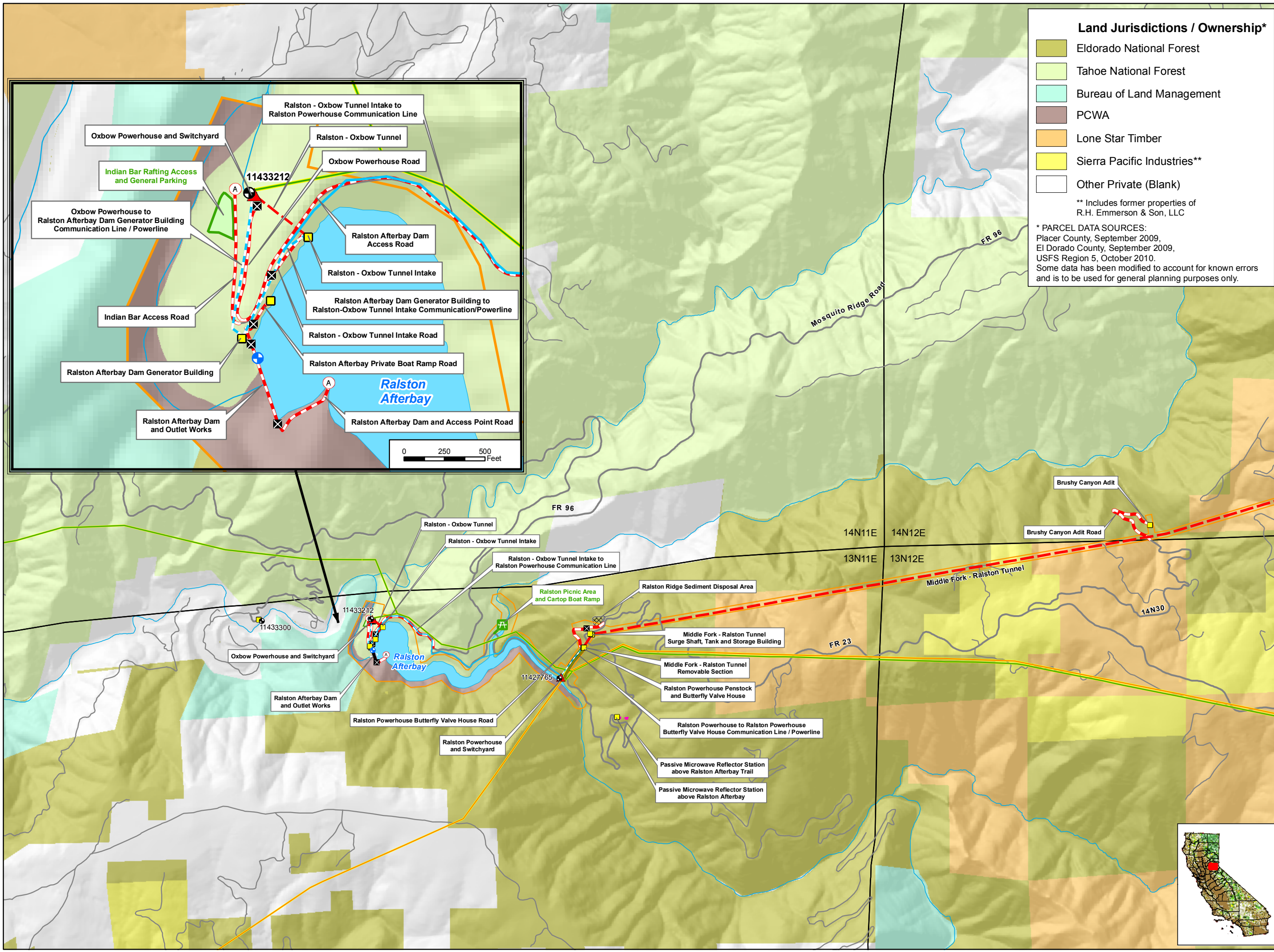
- 230 kV
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Placer County Water Agency
 Middle Fork American River Project
Map 3-3d
 Land Jurisdictions in the Immediate Vicinity of the Middle Fork Project
 Middle Fork Interbay Area



0 0.25 0.5 Miles
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Land Jurisdictions / Ownership*

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- Bureau of Land Management
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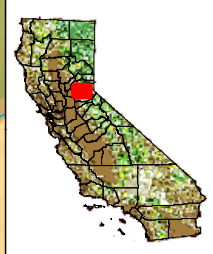
Other Facilities

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Placer County Water Agency
 Middle Fork American River Project
Map 3-3e
 Land Jurisdictions in the Immediate Vicinity of the Middle Fork Project
 Ralston - Oxbow Area



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