Vegetation Communities

Herb-Dominated Communities
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (HJ)

Shrub-Dominated Communities
- Buckbrush Oak (Ch)
- Lower Montane Mixed Chaparral (CQ)
- Upper Montane Mixed Chaparral (CX)
- Mountain (Thickleaf) Alder (TA)

Tree-Dominated Communities
- Black Oak (QK)
- Blue Oak (QD)
- Canyon Live Oak (QC)
- Cottonwood - Alder (QJ)
- Douglas-Fir - Pine (DP)
- Gray Pine (PD)
- Interior Live Oak (QW)
- Interior Mixed Hardwoods (NX)
- Mixed Conifer - Fir (MF)
- Mixed Conifer - Pine (MP)
- Mixed Riparian Hardwoods (NR)
- Pacific Douglas-Fir (DF)
- Ponderosa Pine (PP)
- White Fir (WF)
- White Alder (QK)
- Willow (QO)
- Willow - Alder (QY)

*Calif Data (2000) with updates from 2007 PCWA field surveys and aerial photo interpretation

Vegetation Communities within the TERR-1 Study Area

PCWA Facilities and Features
- Dam
- Ancillary and Other Facilities
- powerhouse
- 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
- Non-Project General Access Road
- Project Road
- Project Trail
- Recreation Access Road
- Other Road

Project Recreation Facilities
- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Water Supply Line

Other Facilities
- PG & E Transmission Lines:
  - 230 kV
  - 60 kV

Fire History
- Areas Burned Since 2000

Placer County Water Agency
Middle Fork American River Project
Map 1a
Vegetation Communities within the TERR-1 Study Area
Confluence Area

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Confluence Area

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Vegetation Communities:
- Douglas-Fir - Pine (DF)
- White Fir (WF)
- Mixed Conifer - Fir (MF)
- Mixed Conifer - Pine (MP)
- Ponderosa Pine (PP)
- Gray Pine (PD)
- Barren (BA)
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (HJ)
- Lower Montane Mixed Chaparral (CQ)
- Upper Montane Mixed Chaparral (CX)
- Lower Middle Fork American River Area

PCWA Facilities and Features:
- Tunnel
- Project Road
- Other Road
- Power Supply Line
- Dam
- Ancillary and Other Facilities
- Project Trail
- Non-Project General Access Road
- Recreation Access Road
- Picnic Area
- Developed Campground
- 230 kV PG&E Transmission Lines
- 60 kV PG&E Transmission Lines
- Other Facilities
- Power (underground)
- Communication/Power
- Non-Vegetated Areas
- Developed Urban (UB)
- Lower Middle Fork American River Area

*CalVeg Data (2000) with updates from 2007 PCWA field surveys and aerial photo interpretation
Vegetation Communities*

Herb-Dominated Communities
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (HL)

Shrub-Dominated Communities
- Blackberry (BR)
- Blueberry (BB)
- Huckleberry Oak (CH)
- Lower Montane Mixed Chaparral (CQ)
- Pacific Dogwood (PD)
- White Fir (WF)

Tree-Dominated Communities
- Douglas-Fir - Pine (DP)
- Mixed Conifer - Fir (MF)
- Mixed Conifer - Pine (MP)
- Ponderosa Pine (PP)
- White Alder (QE)

Non-Vegetated Areas
- Developed/Urban (UB)
- Barren (BA)
- Annual Grasses / Forbs (HG)

Wet Meadow (Grass-Sedge-Rush) (HJ)
- Lower Montane Mixed Chaparral (CQ)
- Upper Montane Mixed Chaparral (CX)
- Huckleberry Oak (CH)
- White Alder (QE)
- Blue Oak (QD)
- Mountain (Thinleaf) Alder (TA)
- Pacific Dogwood (PD)
- White Fir (WF)
- Willow (QO)
- Willow - Alder (QY)
- Interiors Mixed Hardwoods (NX)
- Cottonwood - Alder (QJ)
- Cottonwood - Pine (QP)
- Cottonwood - Pine (QD)
- Cottonwood - Alder (QJ)
- Interior Live Oak (QC)
- Canyon Live Oak (QG)
- Interior Mixed Hardwoods (NL)
- Black Oak (QK)
- Barren (BA)
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (HJ)

*CalVeg Data (2000) with updates from 2007 PCWA field surveys and aerial photo interpretation

PCWA Facilities and Features
- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Penstock
- Tunnel
- Pipeline
- Power Supply Line
- Project Trail
- Recreation Access Road
- Other Road
- Project Recreation Facilities
- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Water Supply Line
- Non-Project General Access Road
- Public Safety Fence
- FERC Boundary
- Project Power and Communication Lines:
  - Communication
  - Power (underground)
  - Communication/Power
  - Communication/Power (underground)
- Transportation
- Non-Project General Access Road
- Project Road
- Project Trail
- Recreation Access Road
- Other Road
- PG & E Transmission Lines:
  - 230 kV
  - 60 kV
- Fire History
- Areas Burned Since 2000

Placer County Water Agency
Middle Fork American River Project
Map 1e
Vegetation Communities within the TERR-1 Study Area
Ellicott Bridge Area

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Vegetation Communities*

*CalVeg Data (2000) with updates from 2007 PCWA field surveys and aerial photo interpretation

Herb-Dominated Communities
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (HJ)

Shrub-Dominated Communities
- Huckleberry Oak (CIR)
- Lower Montane Mixed Chaparral (CQ)
- Upper Montane Mixed Chaparral (CK)
- Mountain (Thinleaf) Alder (TA)

Tree-Dominated Communities
- Mixed Conifer - Pine (MP)
- Mixed Riparian Hardwoods (NR)
- Montane Mixed Hardwoods (TX)
- Pacific Douglas-Fir (DF)
- Ponderosa Pine (PP)
- White Fir (WF)
- Mixed Conifer - Fir (MF)

*Vegetation Communities*
- Douglas-Fir - Pine (DP)
- Willow - Alder (QY)
- Mountain (Thinleaf) Alder (TA)
- Mixed Conifer - Pine (MP)
- Mixed Riparian Hardwoods (NR)
- Montane Mixed Hardwoods (TX)
- Pacific Douglas-Fir (DF)
- Ponderosa Pine (PP)
- White Fir (WF)
- Mixed Conifer - Fir (MF)

Vegetation Communities within the TERR-1 Study Area

PCWA Facilities and Features
- Dam
- Ancillary and Other Facilities
- powerhouse
- 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
  - Non-Project General Access Road
  - Project Road
  - Project Trail
  - Recreation Access Road
  - Other Road
- Project Recreation Facilities
  - Picnic Area
  - Boat Ramp
  - Scenic Viewpoint
  - Developed Campground
  - Water Supply Line
- Other Facilities
  - PG & E Transmission Lines:
    - 230 kV
    - 60 kV
- Fire History
  - Areas Burned Since 2000

Placer County Water Agency
Middle Fork American River Project
Map 1

Areas Burned Since 2000

Miranda Cabin

Diamond Crossing

Grayhorse Creek

Five Lakes Crk
Vegetation Communities*

**Herb-Dominated Communities**
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (HJ)
- Lower Montane Mixed Chaparral (CQ)
- Upper Montane Mixed Chaparral (CX)

**Shrub-Dominated Communities**
- Huckleberry Oak (CH)
- Blue Oak (QD)
- Cottonwood - Alder (QJ)
- Gray Pine (PD)
- Interior Live Oak (QK)
- Mixed Conifer - Fir (MF)

**Tree-Dominated Communities**
- Black Oak (QK)
- Slough Oak (QD)
- Cottonwood - Alder (QJ)
- Douglas-Fir - Pine (DF)
- White Fir (WF)
- Mixed Conifer - Pine (MF)
- Mixed Riparian Hardwoods (HR)
- Montane Mixed Hardwoods (TX)
- Pacific Douglas-Fir (DF)
- Ponderosa Pine (PP)
- White Alder (QE)
- Willow (GO)
- Willow - Alder (QV)

*CalVeg Data (2000) with updates from 2007 PCWA field surveys and aerial photo interpretation*
Vegetation Communities

Herb-Dominated Communities
- Annual Grasses / Forbs (HG)
- Wet Meadow (Grass-Sedge-Rush) (FL)

Shrub-Dominated Communities
- Huckleberry Oak (CI)
- Lower Montane Mixed Chaparral (CQ)
- Upper Montane Mixed Chaparral (CW)
- Mountain (Thinleaf) Alder (TA)

Tree-Dominated Communities
- Black Oak (QK)
- Blue Oak (QO)
- Canyon Live Oak (QJ)
- Douglas-Fir - Pine (DP)
- Gray Pine (PD)
- Interior Live Oak (QW)
- Interior Mixed Hardwoods (NX)
- Mixed Conifer - Frk (MF)

Other Vegetated Areas
- Developed/Urban (UB)

Non-Vegetated Areas
- Dam (BA)

Potential Project Betterments
- Control Building
- Intake Structure
- Parapet
- Penstock
- Outlet Pipe
- Powerline
- Powerhouse
- Crest Gates

PCWA Facilities and Features
- Access Road
- Non-Project Road
- Construction Staging and/or Work Area
- Project Recreation Facilities
- Water Supply Line
- Developed Campground
- Powerline
- Communication/Power (underground)

Transportation
- Road
- Project Road
- Project Trail
- Recreation Access Road

Fern & E Transmission Lines:
- 230 kV
- 60 kV

Developed/Urban (UB)

*CalVeg Data (2000) with updates from 2007 PCWA field surveys and aerial photo interpretation*
Vegetation Density

- Barren (0 to 10% canopy cover)
- Sparse (11 to 24% canopy cover)
- Open (25 to 39% canopy cover)
- Moderate (50 to 59% canopy cover)
- Dense (60 to 80% canopy cover)
- Extremely Dense (>80% canopy cover)

PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- 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
- Non-Project General Access Road
- Project Road
- Project Trail
- Recreation Access Road
- Other Road

Project Recreation Facilities
- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Water Supply Line

Other Facilities
- PG & E Transmission Lines:
  - 230 kV
  - 60 kV

Fire History
- Areas Burned Since 2000

Vegetation Densities within the TERR-1 Study Area

- Sparse (11 to 24% canopy cover)
- Open (25 to 39% canopy cover)
- Moderate (50 to 59% canopy cover)
- Dense (60 to 80% canopy cover)
- Extremely Dense (>80% canopy cover)
- Barren (0 to 10% canopy cover)

Placer County Water Agency
Middle Fork American River Project

Map 3a
Vegetation Densities
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Vegetation Density

- Barren (0 to 10% canopy cover)
- Sparse (11 to 24% canopy cover)
- Open (25 to 39% canopy cover)
- Moderate (40 to 59% canopy cover)
- Dense (60 to 80% canopy cover)
- Extremely Dense (>80% canopy cover)

Drivers Flat

Middle Fork American River

Date: 1/16/08

Projection: Ca. Stateplane, Zone 2

Datum: NAD 83

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Vegetation Densities within the TERR-1 Study Area

- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Water Supply Line

Other Facilities
- PG & E Transmission Lines:
  - 230 kV
  - 60 kV

Fire History
- Areas Burned Since 2000

PCWA Facilities and Features

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

Project Power and Communication Lines:
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- Power (underground)
- Communication/Power
- Communication/Power (underground)

Transportation
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- Project Road
- Project Trail
- Recreation Access Road
- Other Road

Project Recreation Facilities
- Picnic Area
- Boat Ramp
- Scenic Viewpoint
- Developed Campground
- Water Supply Line

Other Facilities
- PG & E Transmission Lines:
  - 230 kV
  - 60 kV

Fire History
- Areas Burned Since 2000
Vegetation Density

- Barren (0 to 10% canopy cover)
- Sparse (11 to 24% canopy cover)
- Open (25 to 39% canopy cover)
- Moderate (40 to 59% canopy cover)
- Dense (60 to 80% canopy cover)
- Extremely Dense (>80% canopy cover)

PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gate
- Penstock
- Tunnel
- Pipeline
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- Project Power and Communication Lines:
  - Communication
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  - Communication/Power (underground)
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  - Project Road
  - Project Trail
  - Recreation Access Road
  - Other Road
- Project Recreation Facilities
  - Picnic Area
  - Boat Ramp
  - Scenic Viewpoint
  - Developed Campground
  - Water Supply Line
- Other Facilities
  - PG & E Transmission Lines:
    - 230 kV
    - 60 kV
- Fire History
  - Areas Burned Since 2000

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Vegetation Densities within the TERR-1 Study Area
Northern Snow Courses