

Abbreviations and Acronyms

AADT	Annual Average Daily Traffic
AB	Assembly Bill
ACHP	Advisory Council on Historic Preservation
ACS	American Community Survey
AF	Acre Feet
AFA	Aphanizomenon flos-aquae
AIP	Agreement in Principle
AIRFA	American Indian Religious Freedom Act
APE	Area of Potential Effects
AQMA	Air Quality Maintenance Area
ASDSO	Association of State Dam Safety Officials
ASR	Aquatic Scientific Resources
AUM	Annual Unit Month
AWS	Auxiliary Water Supply
B	Beneficial
BA	Biological Assessment
BB	Black Bullhead
BCoCs	bioaccumulative chemicals of concern
BEP	Business Emergency Plan
BGEPA	Bald and Golden Eagle Protection Act
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BLS	Bureau of Labor Statistics
BMI	Benthic Macroinvertebrates
BMP	Best Management Practice
BOD	Biological Oxygen Demand
BOE	Board of Equalization
BP	Before Present
BSLVs	Bioaccumulation screening level values
BTs	Bioaccumulation Triggers
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
Caltrans	California Department of Transportation
CARB	California Air Resources Board

CAS	California Climate Adaption Strategy
CASGEM	California Statewide Groundwater Elevation Monitoring
CBOD	Carbonaceous biochemical oxygen demand
CCA	California Coastal Act
CCR	California Code of Regulations
CEC	California Energy Commission
CDC	California Department of Conservation
CDFG	California Department of Fish and Game
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
cfs	Cubic feet per second
CH ₄	methane
CHHSLs	California Human Health Screening Levels
CNDDDB	California Natural Diversity Database
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide equivalent
COPCO	California Oregon Power Company
CPUC	California Public Utilities Commission
CRFD	Coleston Rural Fire Protection District
CRHR	California Register of Historical Resources
CRS	Congressional Research Service
CSSC	California Department of Fish and Game Species of Special Concern
CUPAs	Certified Unified Program Agencies
CWA	Clean Water Act
CWC	California Water Code
CZMA	Coastal Zone Management Act
dB	decibels
dBA	A-weighted decibels
DC	direct current
DPW	Department of Public Works
DDE	1,1-bis-(4-chlorophenyl)-2,2-dichloroethene
DDT	dichlorodiphenyltrichloroethane
DEA	David Evans and Associations
DEET	N,N-Diethyl-meta-Toluamide (insect repellent)

Detailed Plan	Detailed Plan for Facilities Removal
DHS	California Department of Health Services
DMA	Designated Management Agency
DMMP	Dredged Material Management Program
DO	dissolved oxygen
DOA	Department of Agriculture
DOC	US Department of Commerce
DOF	Department of Finance
DOI	United States Department of the Interior
DPS	Distinct Population Segment
DPW	Department of Public Works
DRE	Dam Removal Entity
DSL	Oregon Department of State Lands
DTSC	California Department of Toxic Substance Control
DW	dry weight
DWR	California Department of Water Resources
ECST	Environmental Compliance Sub-Team of the Technical Management Team
EDD	Employment Development Department
EDR	Environmental Data Resources
EDRRA	Evaluation of Dam Removal and Restoration of Anadromy
EFDC	Environmental Fluid Dynamics Code
EFH	Essential Fish Habitat
EGC	Engineering, Geomorphology, and Construction Sub-Team
eGRID	Emissions & Generation Resource Integrated Database
EIS	Environmental Impact Statement
EIS/EIR	Environmental Impact Statement/Environmental Impact Report
ENSO	El Niño Southern Oscillation
EPA	Environmental Protection Agency
EO	Executive Order
ESA	Environmental Site Assessment
ESA	Federal Endangered Species Act
ESU	Evolutionary Significant Unit
FEIS	Federal Energy Regulatory Commission Environmental Impact Statement

FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FGC	Fish and Game Code
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FLIR	Forward Looking Infrared Radiometry
FDOT	Florida Department of Transportation
FNU	Formazin nephelometric units
FPA	Federal Power Act
FSBC	Floating Surface Bypass Collector
ft/day	foot per day
ft/s	feet per second
FTA	Federal Transit Administration
FTR	Final Technical Report
FWCA	Fish and Wildlife Coordination Act
GCM	Global Circulation Model
GEC	Gatherd Engineering Consultants
GHG	Greenhouse Gases
GIS	Geographic Information Systems
GWP	global warming potential
HABS/HAER	Historic Architectural Building Survey/Historic Architectural Engineering Report
HALS	Historic American Landscape Survey
HASP	Health and Safety Plan
HAZNET	California Facility and Manifest Database
HCM	Highway Capacity Manual
HCN or CN	Toxic free cyanide
HMBP	Hazardous Materials Business Plan
HMMP	Hazardous Materials Management Plan
HPMP	Historic Properties Management Plan
HSC	Health and Safety Code
HTRW	Hazardous, toxic, and radiological waste
HVTEPA	Hoopa Valley Tribe Environmental Protection Agency
ICNU	Industrial Customers of Northwest Utilities
ICP	Interim Conservation Plan
IHA	Indicators of Hydrologic Alteration
IM	Interim Measure

IMPLAN	Impact analysis for PLANning
IOD	Immediate Oxygen Demand
IPCC	Intergovernmental Panel on Climate Change
KBAC	Klamath Basin Advisory Council
KBCC	Klamath Basin Coordinating Council
KBRA	Klamath Basin Restoration Agreement
KDD	Klamath Drain District
Keno Transfer	Proposed transfer of the Keno Facilities from PacifiCorp to Reclamation
KFHAT	Klamath Fish Health Assessment Team
KHHD	Klamath Hydroelectric Historic District
KHP	Klamath Hydroelectric Project
KHSA	Klamath Hydroelectric Settlement Agreement
KMZ	Klamath Management Zone
KOPs	Key Observation Points
KRBFTF	Klamath River Basin Fisheries Task Force
KRSIC	Klamath River Stock Identification Committee
KRWQM	Klamath River Water Quality Model
lbs	pounds
lb/ft ³	pounds per cubic foot
Leq	Equivalent average noise level
Lmax	noise levels of equipment operating at full power measured from 50ft away
LMB	Largemouth Bass
LOMA	Letter of Map Amendment
LOMR	Letter of Map Revision
LOS	level of service
LPAHEL	Low Probability of Adverse Health Effects
LRMP	Land and Resource Management Plan
LTS	Less than Significant
LUST	leaking underground storage tank
LWD	large woody debris
Lv	vibration velocity level
m/sec	meters per second
MAA	Management Agency Agreement
MBTA	Migratory Bird Treaty Act
MCL	Maximum Contaminant Level
MCPA	2-methyl-4-chlorophenoxyacetic acid

mgd	million gallons per day
MLPA	Marine Life Protection Act
mm	millimeters
MMTCO _{2e}	million metric tons carbon dioxide equivalent
mph	miles per hour
MPRSA	Marine Protection, Research, and Sanctuaries Act, or Ocean Dumping Act
mtons/year	metric tons per year
MSAE	<i>Microcystis aeruginosa</i>
MTs	Maximum Levels
MTCO _{2e}	metric tons carbon dioxide equivalent
MUTCD	Manual of Uniform Traffic Control Devices
MW	Megawatts
MWh	Megawatt hours
MWMT	Maximum Weekly Maximum Temperature
MY	Model Year
N/A	Not Applicable
N:P	nitrogen to phosphorus
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NAS	National Academy of Science
NBOD	Nitrogenous Oxygen Demand
NCFEC	No Change From Existing Conditions
NCRWQCB	North Coast Regional Water Quality Control Board
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
N-fixation	Nitrogen fixation
NH ₃	ammonia
NH ₄ ⁺	ammonia
NHMRC	Australian Government National Health and Medical Research Council
NHPA	National Historic Preservation Act
NO ₂	Nitrogen dioxide
NO ₃ ⁻	nitrate
NOAA Fisheries Service	National Oceanic and Atmospheric Administration Fisheries Service
NOAA	National Oceanic and Atmospheric Administration

NOP	Notice of Preparation
NO _x	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRC	National Research Council
NRCS	Natural Resource Conservation Service
NRHP	National Register of Historic Places
NSO	Northern Spotted Owl
NSR	North State Resources
NTU	nephelometric turbidity unit
NVCP	Noise control and Vibration Plan
NWR	National Wildlife Refuge
NWSRS	National Wild and Scenic Rivers System
NWS	National Weather Service
O ₃	Ozone
OARs	Oregon Administrative Rules
OCAR	Oregon Climate Assessment Report
OCCRI	Oregon Climate Change Research Institute
ODA	Oregon Department of Agriculture
ODEQ	Oregon Department of Environmental Quality
ODF	Oregon Department of Forestry
ODFW	Oregon Department of Fish and Wildlife
ODSL	Oregon Department of State Lands
ODOT	Oregon Department of Transportation
OEHHA	Office of Environmental Health and Hazard Assessment
OHV	Off Highway Vehicle
ON	organic nitrogen
ONHP	Oregon Natural Heritage Database
OPWAS	Off-Project Water Settlement
ORBIC	Oregon Biodiversity Information Center
ORS	Oregon Revised Statute
OWRD	Oregon Water Resources Department
OSU	Oregon State University
PAHs	poly-aromatic hydrocarbons
Pb	lead
PBDEs	polybrominated diphenyl ethers
PCA	Power Control Area

PCBs	polychlorinated biphenyls
PCEs	Primary Constituent Elements
PCPI	Per Capita Personal Income
PDO	Pacific Decadal Oscillation
PDPO	Pollutant Discharge Prohibition Ordinance
PELs	probable effect levels
PG&E	Pacific Gas and Electric Company
PFMC	Pacific Fishery Management Council
PM ₁₀	Particulate Matter <10 microns
PM _{2.5}	Particulate Matter <2.5 microns
Porter-Cologne	California Porter-Cologne Water Quality Act
PP	particulate phosphorus
ppt	parts per thousand
PPV	peak particle velocity
PRBO	Point Reyes Bird Observatory
PRC	Public Resources Code
PRGs	Preliminary Remediation Goals
PRMS	Precipitation Runoff Modeling System
Proposed Action	Full Facilities Removal of Four Dams Alternatives
PSD	Prevention of significant deterioration
PSDDA	Puget Sound Dredge Disposal Analysis
PSPLC	Pokegama Sugar Pine Lumber Company
PUCs	Public Utility Commission
PWA	Phillip William and Associates
Reclamation	Bureau of Reclamation
RCA	Riparian Conservation Area
RED	Regional Economic Development
RES	Renewable Electricity Standard
RHJV	Riparian Habitat Joint Venture
RM	River Mile
RMA	Resource Management Associates
RMP	Resource Management Plan
ROD	Record of Decision
ROW	Right of Way
RPS	Renewable Portfolio Standard
RSET	Regional Sediment Evaluation Team
RSLs	Regional Screening Levels
RV	Recreational Vehicle

RWS	River Water Surface
S	Significant
SAR	Sediment Accumulation Rates
SCAPCD	Siskiyou County Air Pollution Control District
SCAQMD	South Coast Air Quality Management District
SCF	Sectional Center Facility
SDOR	Secretarial Determination Overview Report
SDWA	Safe Drinking Water Act
SDU	Small Domestic Use Appropriation
Secretary	Secretary of the Interior
SEF	Sediment Evaluation Framework
SF ₆	Sulfur hexafluoride
SHPO	State Historical Preservation Officer
SIP	State Implementation Plan
SLs	Screening Levels
SLVs	Screening Level Values
SMS	Scenery Management System
SO ₂	Sulfur dioxide
SOD	Sediment Oxygen Demand
SONCC	Southern Oregon Northern California Coast
SO _x	sulfur oxides
SQuiRTs	Screening Quick Reference Tables
SRH-1D	one dimensional sedimentation and river hydraulics model
SRP	soluble reactive phosphorus
SRRC	Salmon River Restoration Council
SSC	suspended sediment concentration
SSDI	suspended sediment concentration
SVOCs	semi-volatile organic compounds
SWAMP	California Surface Water Ambient Monitoring Program
SWE	Snow Water Equivalent
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	California State Water Resources Control Board
TCC	Technical Coordination Committee
TCP	Traditional Cultural Properties
TDI	Total Daily Intake
TIPU	Transportation, Information, and Public Utilities

Term	Stands For
TEQ	toxicity equivalent quotient
THP	Timber Harvest Plan
THPOs	Tribal Historical Preservation Officers
TID	Tulelake Irrigation District
TIN	Total Inorganic Nitrogen
TIPs	Tribal Implementation Plans
TKN	total Kjeldahl nitrogen, ; a measure of organic nitrogen plus ammonia, nitrate (NO ₃) and ammonia (NH ₄ ⁺)
TMDL	Total Maximum Daily Load
TMT	technical management team
TN	total nitrogen
TNM2.5	Traffic Noise Model version 2.5
TP	Total Phosphorous
tpy	tons per year
TRVs	Toxicity Reference Values
TSS	Total Suspended Solids
UFWS	U.S. Fish and Wildlife Service
µg/L	micrograms per liter
UGB	Urban Growth Boundary
UKL	Upper Klamath Lake
UKWUA	Upper Klamath Lake Water Users Association
URBEMIS	Urban Emissions Model
USACE	United States Army Corp of Engineers
USBR	United States Bureau of Reclamation
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGCRP	United States Global Change Research Program
USGS	United States Geological Survey
UST	underground storage tank
v/c	volume to capacity ratio
VdB	vibration decibels
VOCs	volatile organic compounds
VRI	Visual Resources Inventory
VRM	Visual Resource Management Methodology

WECC	Western Electricity Coordinating Council
WHO	World Health Organization
WQ	Water Quality
WQCP	Water Quality Control Plan
WQMP	Water Quality Management Plan
WRIMS	Water Resource Integrated Modeling System
WSR	Wild and Scenic Rivers
WSRA	Wild and Scenic Rivers Act
WUA	Weighted Usable Area
WURP	Water Use Retirement Program
WY	Water year
yd ³	cubic yards
YTEP	Yurok Tribe Environmental Program
1	No Action/No Project
2	Full Facilities Removal of Four Dams Alternative (Proposed Action)
3	Partial Facilities Removal of Four Dams Alternative
4	Fish Passage at Four Dams Alternative
5	Fish Passage at J.C. Boyle and Copco 2, Remove Copco 1 and Iron Gate Alternative

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