

Bull Run Water Supply Habitat Conservation Plan

For the Issuance of a Permit to Allow Incidental Take
of Threatened and Endangered Species

Final

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Submitted to

U.S. Department of Commerce, National Oceanic and Atmospheric
Administration National Marine Fisheries Service

Submitted by

City of Portland Water Bureau





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Acronyms and Abbreviations

BLM	Bureau of Land Management
CFR	Code of Federal Regulations
cfs	cubic feet per second
cm	centimeter
DBH	diameter at breast height
DPS	distinct population segment
EDT	Ecosystem Diagnosis and Treatment
ESA	Endangered Species Act
ESU	Evolutionarily Significant Unit
FERC	Federal Energy Regulatory Commission
FLIR	Forward Looking Infrared Radar
fps	feet per second
GIS	Geographical Information Systems
HCP	Habitat Conservation Plan
HUC	Hydrologic Unit Code
ITP	Incidental Take Permit
LCR	Lower Columbia River
LCFRB	Lower Columbia Fish Recovery Board
LRH	lower river hatchery
LRMP	Land and Resources Management Plan
LRW	lower river wild
LW	large wood
mgd	million gallons per day
MOU	Memorandum of Understanding
msl	mean sea level
NMFS	National Marine Fisheries Service
NPCC	Northwest Power Planning Council
NWI	National Wetland Inventor
ODEQ	Oregon Department of Environmental Quality

ODF	Oregon Department of Forestry
ODFW	Oregon Department of Fish and Wildlife
ODOT	Oregon Department of Transportation
ODSL	Oregon Department of State Lands
ORS	Oregon Revised Statute
OWRB	Oregon Water Resources Board
OWRD	Oregon Water Resources Department
PGE	Portland General Electric
PIG	Columbia River Basin Anadromous Fish Policy Implementation Guide
PL	Public Law
RM	river mile
RNV	range of natural variation
SMART	Stream Management, Analysis, Reporting, and Tracking
SRBA	Sandy River Basin Agreement
SRBP	Sandy River Basin Partners
SRBWC	Sandy River Basin Watershed Council
TMDL	total maximum daily load
TRT	Technical Recovery Team
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Service
VSP	viable salmonid population
WLC-TRT	Willamette-Lower Columbia Technical Recovery Team
WUA	weighted usable area