DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT/SUBSEQUENT ENVIRONMENTAL IMPACT REPORT

Sacramento River Deep Water Ship Channel

Binder 1 of 2

U.S. Army Corps of Engineers
San Francisco District and
Port of West Sacramento

February 2011

DRAFT
SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT/SUBSEQUENT ENVIRONMENTAL IMPACT REPORT

SACRAMENTO RIVER DEEP WATER SHIP CHANNEL

U.S. Army Corps of Engineers
San Francisco District

and

Port of West Sacramento

February 2011

Sacramento River Deep Water Ship Channel
Contra Costa, Solano, Sacramento, and Yolo Counties, California

Draft
Supplemental Environmental Impact Statement/
Subsequent Environmental Impact Report

This Draft Supplemental Environmental Impact Statement/Subsequent Environmental Impact Report (SEIS/SEIR) evaluates the impacts of the proposed deepening of the Sacramento River Deep Water Ship Channel (SRDWSC). The federal lead agency is the U.S. Army Corps of Engineers, San Francisco District (USACE). The state lead agency is the Port of West Sacramento (Port). The Channel Deepening to -35 Feet Mean Lower Low Water Alternative (Proposed Project) would deepen, to its Congressionally authorized depth, and selectively widen portions of the SRDWSC. The purpose of the Proposed Project is to realize increased economic benefits associated with a reduced transportation cost of moving goods to the Port and provide safe navigation for commercial vessel traffic. This Draft SEIS/SEIR supplements the *Sacramento River Deep Water Ship Channel, California: Feasibility Report and Environmental Impact Statement for Navigation and Related Purposes* completed in 1980, and the *General Design Memorandum and Final Supplemental Environmental Impact Statement* completed in 1986. This Draft SEIS/SEIR analyzes potential impacts of the Proposed Project and alternatives and will support decision making by USACE, the Port, and other agencies regarding implementation of the Proposed Project and ensure compliance with the National Environmental Policy Act (NEPA), the California Environmental Quality Act (CEQA), and other pertinent laws and regulations.

Federal, state, and local agencies and the public will have an opportunity to comment on this document during a 45-day comment period from February 25, 2011, to April 11, 2011. Information on the Draft SEIS/SEIR can be found at:
http://www.sacramentoshipchannel.org.

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	degree Celsius
°F	degree Fahrenheit
ABAG	Association of Bay Area Governments
AHPA	Archaeological and Historical Preservation Act
APE	Area of Potential Effects
AQAP	Air Quality Attainment Plan
ARB	California Air Resources Board
BAAQMD	Bay Area Air Quality Management District
BDCP	Bay-Delta Conservation Plan
BMP	best management practice
BNSF	Burlington Northern Santa Fe
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CALFED	CALFED Bay-Delta Program
Caltrans	California Department of Transportation
CCAA	California Clean Air Act
CCR	California Code of Regulations
CDBW	California Department of Boating and Waterways
CDFG	California Department of Fish and Game
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CHRIS	California Historical Resources Information System
CH_4	methane
CNEL	community noise equivalent level
CNPPA	California Native Plant Protection Act
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2	carbon dioxide
CO_{2e}	CO_2 equivalent
CUPA	Certified Uniform Program Agencies
CWA	Clean Water Act
cy	cubic yard
CZMA	Coastal Zone Management Act

CZMP	Coastal Zone Management Plan
DA	Department of the Army
dB	decibel
dBA	A-weighted decibel
DDT	dichloro diphenyl trichloroethane
Delta	Sacramento-San Joaquin River Delta
DHCCP	Delta Habitat Conservation and Conveyance Program
DI-WET	Deionized Water-Waste Extraction Test
DO	dissolved oxygen
dph	days post hatch
DPS	distinct population segment
DWR	California Department of Water Resources
DWT	deadweight tonnage
EFH	essential fish habitat
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
ER	Engineer Regulations
ERDC	Engineer Research and Development Center
ESA	Endangered Species Act
ESU	evolutionary significant unit
FMC	Fishery Management Council
FMMP	Farmland Mapping and Monitoring Program
FMP	Fishery Management Plan
FPPA	Farmland Protection Policy Act
FR	Federal Regulation
FWPRA	Federal Water Project Recreation Act
GDM	General Design Memorandum
GHG	greenhouse gas
GIS	geographical information system
HCP	Habitat Conservation Plan
HEP	Habitat Evaluation Procedures
HFC	Hydrofluorocarbons
HTRW	hazardous, toxic, and radioactive waste
I	Interstate
IEP	Interagency Ecological Program
km	kilometers
LASH	Lighter Aboard Ship
Ldn	day-night average sound level
LEDPA	Least Environmentally Damaging Practicable Alternative
Leq	equivalent sound level

LESA	Land Evaluation and Site Assessment
LIM	Land Inventory and Monitoring
LRR	Limited Reevaluation Report
LSIWA	Lower Sherman Island Wildlife Area
LTMS	Long Term Management Strategy
Magnuson-Stevens Act	Magnuson-Stevens Fishery Conservation and Management Act
MBTA	Migratory Bird Treaty Act
MET	Modified Elutriate Test
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MHHW	mean higher high water
MHW	mean high water
mph	miles per hour
MLLW	mean lower low water
MMPA	Marine Mammal Protection Act
mS/cm	miscoSiemens per centimeters
MSL	mean sea level
MT	metric tons
N_2O	nitrous oxide
NAAQS	national ambient air quality standards
NCCPA	Natural Communities Conservation Planning Act
NED	National Economic Development
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NO_2	nitrogen dioxide
NMFS	National Marine Fisheries Service
NOI	Notice of Intent
NOP	Notice of Preparation
NOTAM	Notice to All Mariners
NO_x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NTU	Nephelometeric Turbidity Units
NWI	National Wetlands Inventory
NWR	National Wildlife Refuge
O_3	ozone
OGV	ocean going vessel
OHW	ordinary high water

PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCE	primary constituent element
PEM1R	palustrine, emergent, persistent, seasonal-tidal
PEMC	palustrine, emergent, temporarily flooded
Pf	palustrine farmed
PFC	perfluorocarbon
PFMC	Pacific Fishery Management Council
PG&E	Pacific Gas and Electric
PM	particulate matter
POD	Pelagic Organism Decline
Port	Port of West Sacramento
Porter-Cologne	Porter-Cologne Water Quality Control Act
ppt	parts per thousand
ppmv	parts per million on a volume basis
PRC	California Public Resources Code
PRG	Preliminary Remediation Goal
psu	practical salinity units
PUBA	palustrine, unconsolidated bottom, temporarily flooded
Pub. L.	Public Law
RCA	Resource Conservation Area
RCRA	Resource Conservation and Recovery Act
RHA	Rivers and Harbors Act
RM	river mile
ROD	Record of Decision
ROG	reactive organic gas
RPD	relative percent difference
RPM	revolutions per minute
RWQCB	Regional Water Quality Control Board
SEIS/SEIR	Supplemental Environmental Impact Statement/Subsequent Environmental Impact Report
SF_6	sulfur hexafluoride
SFEI	San Francisco Estuary Institute
SHPO	State Historic Preservation Office
SIP	State Implementation Plan
SMAQMD	Sacramento Metro Air Quality Management District
SO_2	sulfur dioxide
SO_x	sulfur oxides
SR	State Route
SRDWSC	Sacramento River Deep Water Ship Channel

SSC	State Species of Concern
STLC	Soluble Threshold Limit Concentration
SVAB	Sacramento Valley Air Basin
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TDS	total dissolved solids
TMDL	Total Maximum Daily Load
TOC	total organic carbon
TSCA	Toxic Substances Control Act
TSS	total suspended solids
µg/m3	micrograms per cubic meter
USACE	U.S. Army Corps of Engineers
USBR	U.S. Bureau of Reclamation
USC	United States Code
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Service
WDR	Waste Discharge Requirement
WQC	Water Quality Certification
X2	distance from the Golden Gate Bridge to the tidally averaged near-bed 2-psu isohaline (constant salinity)
YBWA	Yolo Bypass Wildlife Area
YSAQMD	Yolo Solano Air Quality Management District