



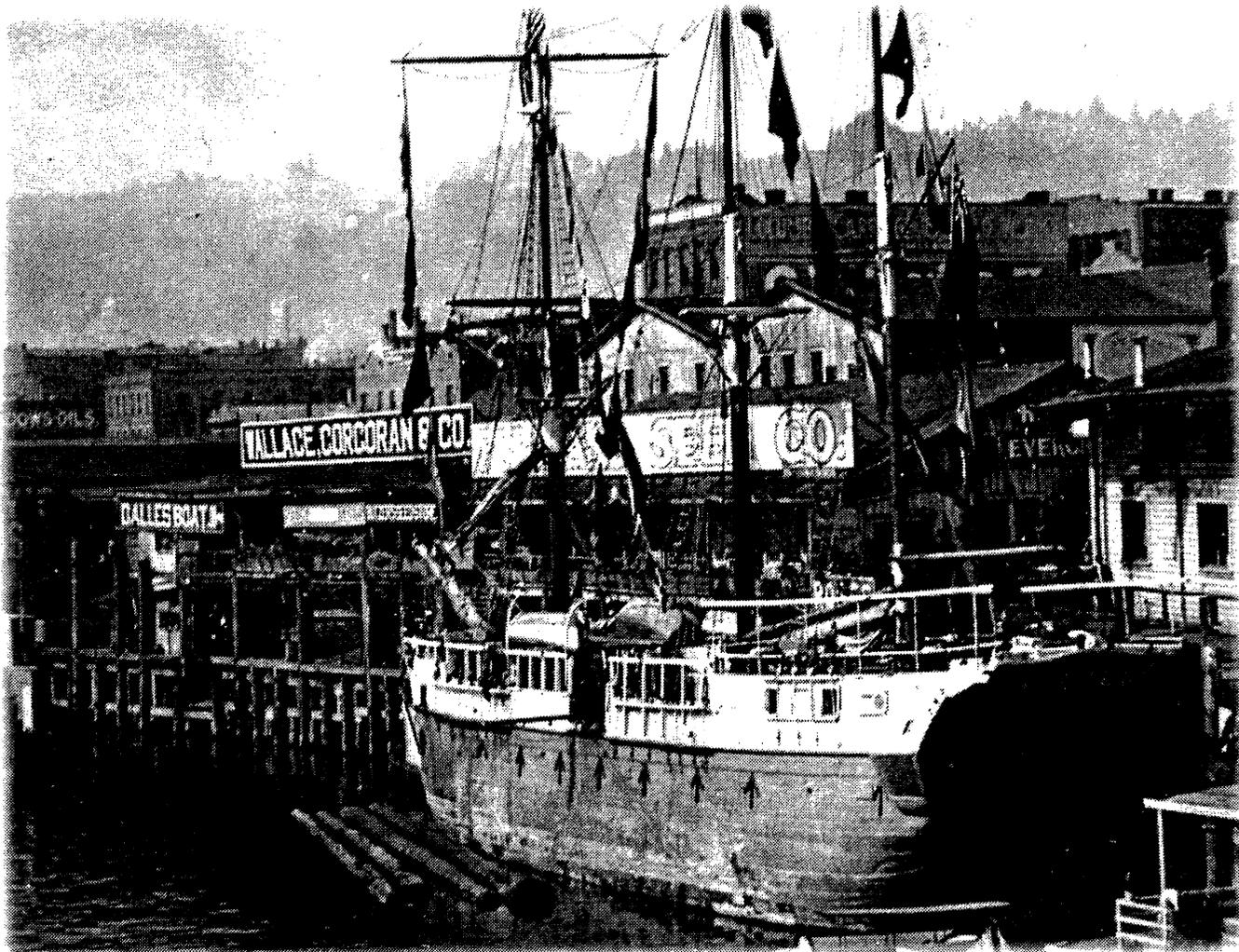
**US Army Corps
of Engineers®**

Portland District

Volume I: Main Report and Exhibits

Integrated Feasibility Report for Channel Improvements and Environmental Impact Statement

Columbia & Lower Willamette River Federal Navigation Channel



August 1999

*Portland Waterfront Circa 1900
Photo Courtesy of Port of Portland*

Abbreviations and Acronyms

AAHU	average annual habitat unit	OBMP	Oregon Board of Maritime Pilots
AMD	advance maintenance dredging	ODEQ	Oregon Department of Environmental Quality
ASA(CW)	Assistant Secretary of the Army for Civil Works	ODFW	Oregon Department of Fish and Wildlife
AVS	acid volatile sulfide	ODMDS	Ocean Dredged Material Disposal Site
CAR	coordination act report	PAHs	polynuclear aromatic hydrocarbons
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PAS	preliminary assessment screening
cfs	cubic feet per second	PCA	project cooperation agreement
Corps	U.S. Army Corps of Engineers	PCBs	polychlorobiphenyls
CRD	Columbia River datum	PED	pre-construction engineering and design
CREST	Columbia River Estuary Study Task Force	PMSA	primary metropolitan statistical area
CRM	Columbia river mile	ppb	parts per billion
CWA	Clean Water Act	ppm	parts per million
cy	cubic yards	ppt	parts per thousand
DLCD	Department of Land, Conservation, and Development	PRGs	preliminary remedial goals
DMMP	dredged material management plan	psi	pounds per square inch
dwt	deadweight tonnage	RGS	reporter gene system
EA	environmental assessment	TBT	pore water tributyltin
EIS	environmental impact statement	TEU	twenty-foot equivalent unit
EPA	U.S. Environmental Protection Agency	TOC	total organic carbon
ESA	Endangered Species Act	TVS	total volatile solids
fps	feet per second	USGS	U.S. Geological Survey
FWS	U.S. Fish and Wildlife Service	WDOE	Washington Dept. of Ecology
HEP	habitat evaluation procedures	WDFW	Washington Dept. of Fish and Wildlife
HTRW	hazardous, toxic, and radiological waste	WES	Waterways Experiment Station, Corps of Engineers
LERRD	lands, easements, rights-of-way, relocation, and disposal sites	WRDA	Water Resources Development Act
MCR	Mouth of the Columbia River project	WRM	Willamette river mile
mcy	million cubic yards		
mg/kg	milligrams per kilogram		
MLLW	mean lower low water		
mm	millimeter		
MPRSA	Marine Protection, Research, and Sanctuaries Act		
NED	national economic development		
NEPA	National Environmental Policy Act		
NISA	National Invasive Species Act		
NMFS	National Marine Fisheries Service		
NTU	nephelometric turbidity unit		
NWS-			
NWRFC	National Weather Service Northwest River Forecast Center		