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LIST OF ABBREVIATIONS AND ACRONYMS

°C	degrees Celsius	BP	before present
°F	degrees Fahrenheit	bpd	barrels per day
µg/m ³	micrograms per cubic meter	BTEX	(refers to the chemicals benzene, toluene, ethylbenzene, and xylene)
AADT	Annual Average Daily Traffic (vehicle trips per day)	CDC	Centers for Disease Control and Prevention
AAR	Association of American Railroads	CEMP	Washington State's Comprehensive Emergency Management Plan
ACA	American Correctional Association	CEQ	President's Council for Environmental Quality
AESS	automatic engine shutoff system	CERCLIS database	Comprehensive Environmental Response, Compensation, and Liability Information System database
AFF foam	aqueous film-forming foam	CFR	Code of Federal Regulations
ALERT	Assistance for Local Emergency Response Training	cfs	cubic feet per second
API	American Petroleum Institute	CMMP	contaminated media management plan
AQCR	air quality control region	CO	carbon monoxide
AQMA	air quality maintenance area	CO _{2e}	carbon dioxide equivalent
Area 200	administrative and support buildings and railcar unloading facility	CPT	cone penetrometer test
Area 300	Proposed Project: the storage tank area	CPU	Clark Public Utilities
Area 400	Proposed Project: the marine terminal area	CRC	Clean Rivers Cooperative
Area 500	Proposed Project: transfer pipelines area	CRD	Columbia River datum
Area 600	Proposed Project: the boiler building area	CRESA	Clark Regional Emergency Services Agency
ARRA	American Recovery and Reinvestment Act	CRITFC	Columbia River Intertribal Fish Commission
ASC	Application for Site Certification	CRWMB	Columbia River Wetland Mitigation Bank
ASCE	American Society of Civil Engineers	CSHM	Construction Safety and Health Manual
ASILs	Acceptable Source Impact Levels	CSZ	Cascadia Subduction Zone
ASME	American Society of Mechanical Engineers	CTs	census tracts
ASTM	American Society for Testing and Materials	CTUIR	Confederated Tribes of the Umatilla Indian Reservation
ATB	articulated tug barge	CWA	Clean Water Act
B&O tax	business and occupation tax	DAHP	Washington State Department of Archaeology and Historic Preservation
BACT	Best Available Control Technology		
bbl	barrel (of oil)	dB	decibel
BE	Biological Evaluation	dba	decibel (A-weighted sound level)
bgs	below ground surface	dBPeak	peak sound level in decibels,
BLM	US Bureau of Land Management	dB _{RMS}	root mean square average sound in decibels
BMPs	best management practices	DCM	deep soil mixing
BNSF	Burlington Northern Santa Fe railroad company	DHS	Department of Homeland Security
BO	Biological Opinion		

DOE	US Department of Energy	gpm	gallons per minute
DOGAMI	Oregon Department of Geology and Mineral Industries	GRP	Geographic Response Plan
DOT	US Department of Transportation	GWP	Global Warming Potential
DPM	diesel particulate matter	H ₂ S	hydrogen sulfide
DPS	distinct population segment	HAPs	hazardous air pollutants
DWT	deadweight tons	HBC	Hudson's Bay Company
Ecology	Washington State Department of Ecology	HDPE	high-density polyethylene
EDNAs	environmental designations for noise abatement	HECSALV	(software product of Herbert Engineering Corporation)
EEZ	exclusive economic zone	HHFT	high-hazard flammable trains
EFH	essential fish habitat	HHFTs	high-hazard flammable trains
EFSEC	Washington State Energy Facility Site Evaluation Council	HIA	Health Impact Assessment
E-house	electrical house	HMERP	Hazardous Materials Emergency Response Plan
EIA	US Energy Information Administration	HMRT	Hazardous Materials Response Team
EIS	environmental impact statement	HSSE Plan	Health, Safety, Security, and Environmental (plan)
ELSA	Environmental Legacy Stewardship Account	IAFC	International Association of Fire Chiefs
EMD	Washington Military Department, Emergency Management Division	IBC	International Building Code
EPA	US Environmental Protection Agency	ICMA	International City/County Management Association
ERG	Emergency Response Guidebook	ICS	Incident Command System
ESA	Endangered Species Act	IH zone	heavy industrial zone
ESD	emergency shutdown	IMO	International Maritime Organization
ESF	Emergency Support Function	IMPLAN	Impact Analysis for Planning model
ESHB	Engrossed Substitute House Bill	JARPA	Joint Aquatic Resources Permit Application
ESU	evolutionarily significant unit	JTC	Washington State Legislature's Joint Transportation Committee
FEMA	Federal Emergency Management Agency	JWC	Clark County Jail Work Center
FHWA	Federal Highway Administration	kHz	kilohertz
FN curve	(risk model predicting frequency per year and number of fatalities)	KOP	Key Observation Point
FOSC	Federal On-Scene Coordinator	LC50	lethal concentration 50: the concentration of a chemical that causes death in 50 percent of the test population during the exposure time
FPAAC	Fire Protection Agencies Advisory Council	LCEP	Lower Columbia Estuary Partnership
FRA	Federal Railroad Administration	Ldn	day-night sound level
FSA	Facility Security Assessment	LECR	lifetime excess cancer risk
FSP	Facility Security Plan	LEL	lower explosive limit
FTA	Federal Transit Administration	LEPCs	Local Emergency Planning Committees
GAP	USGS Gap Analysis Program	Leq	equivalent sound level
GHG	greenhouse gas		
GIS	geographic information system		
GLO	General Land Office		
gpd	gallons per day		

LNG	liquefied natural gas	NMFS	National Marine Fisheries Service
LOS	Level of Service (traffic at intersections)	nmi	nautical mile
MARCS	(proprietary software product of DNV LG company)	NO	nitric oxide
MARCS model	Marine Accident Risk Calculation System model	NO ₂	nitrogen dioxide
MARPOL	International Convention for the Prevention of Pollution from Ships	NOAA	National Oceanic and Atmospheric Administration
MCE	maximum credible earthquake	NOx	nitrogen oxides
MDWT	metric deadweight ton	NPDES	National Pollutant Discharge Elimination System
MFSA	Maritime Fire and Safety Association	NPFC	National Pollution Funds Center
MGD	million gallons per day	NPS	National Park Service
MICR	maximally-impacted commercial receptor	NRC	National Response Center
MIJWC	maximally-impacted Jail Work Center receptor	NRDA	Natural Resource Damage Assessment
MIRR	maximally-impacted residential receptor	NRHP	National Register of Historic Places
MIRR	maximally-impacted receptor	NRS	National Response System
MLLW	mean lower low water	NRT	National Response Team
MMDT	million dekatherms	NWAC	Northwest Area Committee
MMMP	Marine Mammal Monitoring Plan	NWACP	Northwest Area Contingency Plan
MMPA	Marine Mammal Protection Act	NWI	National Wetlands Inventory
MMscf	million standard cubic feet	NWR	National Wildlife Refuge
MNHP	Montana Natural Heritage Program	OARRA	Oregon Archaeological Records Remote Access
mph	miles per hour	ODEQ	Oregon Department of Environmental Quality
MTCA	Model Toxics Control Act	ODFW	Oregon Department of Fish and Wildlife
MVCU	marine vapor combustion unit	OHWM	ordinary high-water mark
M _w	Moment Magnitude (earthquake measurement)	OILMAPLand™	(modeling tool developed by RPS ASA)
NAAQS	National Ambient Air Quality Standards	OLM	Ozone Limiting Method
NAVD	North American Vertical Datum	OPA	Oil Pollution Act of 1990
NCDE	Northern Continental Divide Ecosystem	OPAs	oil-particle aggregates
nd	no date	OPEC	Organization of Petroleum Exporting Countries
NDIC	North Dakota Industrial Commission	OSCP	oil spill contingency plan
NEHRP	National Earthquake Hazards Reduction Program	OSHA	Occupational Safety and Health Administration
NEPA	National Environmental Policy Act	OSLTF	Oil Spill Liability Trust Fund
NETL	US Department of Energy's National Energy Technology Laboratory	OSPA	Oil Spill Prevention Account
NFPA	National Fire Protection Association	OSRA	Oil Spill Response Account
NGLs	natural gas liquids	OSU	Oregon State University
		PADDs	Petroleum Administration for Defense Districts
		PAHs	polycyclic aromatic hydrocarbons
		PBDE	polybrominated diphenyl ethers
		PCBs	polychlorinated biphenyls

PFMC	Pacific Fishery Management Council	SPCC Plan	Spill Prevention, Control, and Countermeasure Plan
PGA	peak ground acceleration	SPL	sound pressure level
PHMSA	Pipeline and Hazardous Materials Safety Administration	SPL	spent pot liner
PHS	WDFW Priority Habitats and Species	SPST	Supplemental Public Sector Training grants
PLC	programmable logic controller	SPT	standard penetration test
PM	particulate matter	SQERs	Small Quantity Emission Rates (in WAC)
PM ₁₀	fine particulate matter less than or equal to 10 microns in diameter	SR	State Route
PM _{2.5}	fine particulate matter less than or equal to 2.5 microns in diameter	STB	Surface Transportation Board
Port	Port of Vancouver	STCA	State Toxics Control Account
ppb	parts per billion	SWPPP	Stormwater Pollution Prevention Plan
PPE	personal protective equipment	TAPs	toxic air pollutants
ppm	parts per million	TCE	trichlorethylene
proposed Project	Vancouver Energy Distribution Terminal Facility	TCPs	traditional cultural properties
PSD	Prevention of Significant Deterioration	TERC	Tribal Emergency Response Commission
psi	pounds per square inch	the Applicant	Tesoro Savage Petroleum Terminal LLC, doing business as Vancouver Energy
PTC	Positive Train Control	the City	City of Vancouver
PVC	polyvinyl chloride	TMDL:	total maximum daily load
RCP	Regional Contingency Plan	TMPL	Trans Mountain pipeline
RCRA	Resource Conservation and Recovery Act,	TPHs	total petroleum hydrocarbons
RCW	Revised Code of Washington	TPIC	Terminal Person in Charge
RM	river mile	TWIC	Transportation Worker Identification Credential
RMS	root mean square	U&A areas	usual and accustomed areas
RRT	Regional Response Team	ULCCs	ultralarge crude carriers
SCA	Site Certification Agreement	USACE	US Army Corps of Engineers
SCBA	Self-Contained Breathing Apparatus	USCG	US Coast Guard
SCC	social cost of carbon	USFWS	US Fish and Wildlife Service
SEL	sound exposure level	USGS	US Geological Survey
SEPA	State Environmental Policy Act	UTC	Washington State Utilities and Transportation Commission
SERs	Significant Emission Rates	V/C ratio	volume/capacity ratio (traffic)
SERTC	AAR's Emergency Response Training Center	VdB	vibration velocity decibels
SFPC	Firefighting Protective Clothing	VEAT counts	Vessel Entry and Transit counts
SIMAP™	model	VFD	Vancouver Fire Department
SLM	sound level measurement (area)	VLCCs	very large crude carriers
SMP	Shoreline Master Program	VMC	Vancouver Municipal Code
SO ₂	sulfur dioxide	VOCs	volatile organic compounds
SOA	Service Outcome Agreement (between WSDOT, BNSF and others)	VPD	Vancouver Police Department
		VPIC	Vessel Person in Charge

VRM	BLM's Visual Resources Management method
WAAQS	Washington Ambient Air Quality Standards
WAC	Washington Administrative Code
WCD	worst-case discharge
WDFW	Washington Department of Fish and Wildlife
WDNR	Washington Department of Natural Resources
WDOH	Washington Department of Health
WHR	Washington Heritage Register
WISAARD	Washington Information System for Architectural and Archaeological Records Data
WISHA	Washington Industrial Safety and Health Act
WNHP	Washington Natural Heritage Program
WRIA	Water Resource Inventory Area
WRRL	Western Response Resource List
WSDOT	Washington State Department of Transportation
WSF	water-soluble fraction of crude oil
WSP	Washington State Patrol
WSTC	Washington State Transportation Commission
WTP	Washington Transportation Plan
WVFA	West Vancouver Freight Access Project
WWTP	wastewater treatment plant