

30% Remedial Design Basis of Design Report

Appendix A

Summary of Source Control Areas and
Upland Cleanup Sites within LDW Middle
Reach

1 Introduction

This appendix documents known upland cleanup sites that are currently under the Washington State Department of Ecology (Ecology)-led upland cleanup processes under the Model Toxics Control Act (MTCA) and within approximately 500 feet of the Lower Duwamish Waterway (LDW) middle reach top of bank (above approximately +11.3 feet mean lower low water). The information is based on available information on Ecology's website (<https://apps.ecology.wa.gov/neighborhood>). Table A-1 details the upland cleanup site conditions and cleanup status for all sites. Cell shading is used to denote which sites are located within 500 feet of the LDW and adjacent to remedial action area (RAL) exceedance areas.

Ecology is responsible for conducting LDW Source Control Sufficiency evaluations and providing recommendations to the U.S. Environmental Protection Agency (EPA) about whether sources are sufficiently controlled to move forward with active in-water cleanup. Per information conveyed during a teleconference with Ecology, EPA, and the Lower Duwamish Waterway Group (LDWG) on July 23, 2025, Ecology plans to issue a LDW middle reach source control sufficiency evaluation report in December 2025.

Table A1-1
Upland Cleanup Sites Adjacent and Nearby the LDW Middle Reach

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report ^a ? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update ^b ? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
1.6E	2253	7380	James Hardie Gypsum	N	N	Started	NFA (Groundwater Metals Only; 2006)	Soil: TPH-diesel	Soil	Soil: Method A (Not Specified)	N/A	Rank Notification Letter (second attempt) , Ecology, 08-06-2015 SHA , Ecology, 04-06-2015	In 1991 the James Hardie Gypsum site was reported to Ecology and placed on the LUST list. Certaineed Gypsum Manufacturing joined the VCP in 2004 and received a NFA determination in 2006 for arsenic, lead, cadmium, chromium, and mercury in groundwater from a gypsum and wallboard recycling pile formerly present at the site. Residual diesel-impacted soil is suspected to remain at the site. Five groundwater monitoring wells are present at the site. Groundwater samples have been analyzed for metals (covered under the 2006 NFA) but have not been analyzed for hydrocarbons and related substances. No information is available for two of the UST closures.	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.
1.6E	2253	1392	Certaineed Gypsum Manufacturing	Y	N	NFA	NFA (2006)	Soil: Metals (arsenic, lead, cadmium, chromium, mercury)	Soil, Groundwater	N/A	N/A	VCP Opinion on Site Cleanup – Further Action , Ecology, 02-21-2006	Based on the 2006 VCP Opinion on Cleanup Action review, Ecology determined no further remedial action is necessary at the site under MTCA.	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.
1.5W	2177	1229	North Terminal 115 (Northland Services and Lineage Seafreeze)	Y	Y	Started	RI/FS WP (2013)	Soil: Metals (copper, lead, arsenic, mercury, zinc), cPAHs Groundwater: Metals (arsenic, cadmium, chromium, copper, lead, mercury, and zinc), VOCs, cPAHs, TPH	Soil, Groundwater, Stormwater	Soil: Method A (Residential and Industrial), Method C (Industrial) Groundwater: Method A	N/A	WP RI/FS Port of Seattle North Terminal 115 , GeoEngineers, 05-09-2013	The Port of Seattle has conducted multiple site investigations since 1991. In 2009, the port sampled the soil, groundwater, and storm drain solids and found contaminants of concern in all three media. According to the 2013 RI/FS WP, soil, groundwater, and stormwater solids were sampled in 2013 to 2014 to support the RI.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
1.6-2.1W	98422914	11307	Terminal 115 Plant 1	Y	Y	Started	Pre-RI; NFA (Parcel A Only; 2023)	Soil: Metals (lead), benzene, vinyl chloride, TPH-diesel Groundwater: Metals (lead), benzene, vinyl chloride, TPH-diesel	Soil, Groundwater, Stormwater	Soil/ Groundwater: Method A (Not Specified)	UST and soil excavation (1994 to 1996)	Terminal 115 Plant 1 Parcel A – Memorandum: NFA at Initial Investigation , Ecology, 09-06-2023 Terminal 115 Plant 1 Parcel A – Initial Investigation Field Report , Ecology, 08-28-2023 Final RI Report, Terminal 115 Plant 1 Parcel A: West Duwamish CSO Control Project , King County, 08-18-2023 Terminal 115 Plant 1 – Factsheet , Ecology, 04-22-2020 Terminal 115 Plant 1 – SHA , Ecology, 06-08-2015 Phase I ESA and Preliminary Phase II , Port of Seattle, 05-16-2011	Cleanup at the site to date has included removal of visibly impacted soil and groundwater during removal of USTs between 1994 and 1996. In addition, free-phase petroleum was removed from extraction wells in the southwest portion of the site. The AO was finalized and signed in July 2020, and the cleanup process is now moving forward. In 2023, King County performed an RI at Parcel A. In August 2023, Ecology determined that Parcel A does not require cleanup action, is not considered to be a hazardous site, and it is not part of the T-115 cleanup site.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.
1.7E	95534411	11205	Lone Star Concrete NW (Glacier Northwest)	Y	N	Started	N/A	Soil: TPH-diesel	Soil and Groundwater	Soil/ Groundwater: Method A (Residential)	Excavation (2003); IC (secondary containment systems installed)	Pump Island and UST Area Exploration , G-Logics, Inc., 04-03-2003 Cleanup Report – Pump Island Area , G-Logics, Inc., 07-11-2003	During March 2003, petroleum-affected soil was excavated shortly after a leak was discovered from a diesel fuel dispenser. Initial groundwater and soil samples were below MTCA cleanups levels; however, follow-up confirmation soil samples exceeded CULs for TPH-diesel. A second soil excavation occurred in June 2023, and confirmatory soil samples were found to be non-detect. The July 2003 Cleanup Report determined no further assessment nor remediation was necessary.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
1.9E	21945 598	4146	Duwamish Marine Center	Y	Y	Started	RI Public Review Draft (2020); FS in Progress	Soil: Metals (various; arsenic and lead exceedances are wide-spread), PCBs, cPAHs, SVOCs and PAHs, and petroleum hydrocarbons Groundwater: Metals (various; arsenic exceedances are wide-spread and lead exceedances are consistent along the southwest portion of the Property adjacent to the LDW), PCBs, SVOCs and PAHs, cPAHs, and TPH	Soil, Groundwater, Sediment, Stormwater, Vapor Intrusion	Soil: Method B (Industrial) Groundwater: Method B, Method C	N/A	Port of Seattle Sliver Property Source Control Investigation WP , Crete Consulting, Inc., 09-24-2024 RI Report – Public Review DRAFT , G-Logics, Inc, 09-30-2020 SHA , Ecology, 01-25-2012	After conducting Phase I and Phase II investigations, an IA was conducted in 2002 to excavate lead-contaminated soils; confirmation soil samples appears to have successfully removed all contamination during the remedial excavation. Based on the information collected up to year 2011, the AO for the site required the preparation of the 2020 RI, FS, and draft CAP. Most recently, upland source control soil sampling occurred in October 2024. Results from these investigation activities will be incorporated into an updated RI/FS report, which it is assumed to be in progress. Per discussions held during a site visit on July 10, 2025, Ecology is evaluating the need for additional upland site investigation near the shoreline. Participants generally included representatives for the property owner, EPA, USACE, Ecology and LDWG.	Preliminary (30%) RD assumes that the upland cleanup site overlaps with middle reach RAL exceedance area sediment RD.
1.9E	2337	1755	Franks Used Cars	N	N	Awaiting Cleanup	Pre-RI	Soil: Metals (cadmium, chromium VI, lead, arsenic), BTEX, PCBs	Soil, Groundwater, Stormwater	Soil: Method A (Not Specified), Method B	N/A	Franks Used Cars – SHA , Ecology, 06-03-2015	The site is located within the 1st Avenue Bridge Storm Drain drainage area. Stormwater at the site reportedly flows through an unlined ditch along the east side of the property and passes through a biofiltration swale before discharging to the LDW. The site is unpaved. The site was reported to Ecology in 1991, and visual evidence of oil-stained soils was reported, and an initial investigation was completed at the site. Metals (cadmium, chromium VI, lead, arsenic), BTEX constituents, and PCBs have been detected in shallow soils and test pits at concentrations above MTCA CULs. Groundwater at the site has not been fully characterized. In 1993, the site owner reportedly removed the building and waste from the site. The site owner wanted to implement site stabilization to minimize future mobilization of contaminants, as suggested by their consultant. The proposed remediation method included mixing a small amount of lime into the soil, and installing an asphalt cap. Ecology did not approve this remediation approach given the close proximity to the Duwamish River. No reports of subsequent remedial actions are currently available at Ecology.	Upland cleanup site is adjacent to RAL exceedance area(s).

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.05E	68427 684	16627	Van Dyke Heavy Hauling	N	N	Started	Pre-RI	Soil: TPH-gasoline and benzene	Soil, Groundwater, Surface Water	Soil: Method A (Unrestricted Land Use), Method C (Industrial) Groundwater: Method A (Unrestricted Land Use), Method C (Industrial)	N/A	SHARP Report , SHARP, 02-27-2025 ENL , Ecology, 07-14-2022 Initial Investigation Field Report , Ecology, 04-21-2021 SCAP , [Unknown Author], 06-01-2008 Limited Phase II ESA , LSI Adapt, 10-21-2002	The 2002 Phase I ESA identified the historical removal of three formers USTs that were removed in 1988, and soil and near-surface groundwater samples were conducted for the 2002 Limited Phase II ESA. Only one quarter of groundwater quality monitoring has occurred (in 2003); soil and groundwater samples were collected, and no exceedances were detected. The site has not been fully characterized, and the extent of contamination has not been delineated since. An Initial Investigation was completed by Ecology in 2021, and the site was subsequently listed on the Contaminated Sites List (ENL dated 07-14-2022). It is assumed that an RI is in process.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.
2.05E	37289 288	4178	Riverside Industrial Park	Y	N	Complete	NFA (2021)	Soil/Groundwater: TPH, BTEX	Soil and Groundwater	Soil/ Groundwater: Method A (Unrestricted Land Use)	UST (1998); soil excavation (1998, 2012)	NFA Opinion Letter , Ecology, 05-18-2021 Project Summary and Closure Report , GeoDesign, 02-07-2020 FS with Disproportionate Cost Analysis of CAPs , Aerotech, 05-07-2014	In 2021, an NFA was issued. Ecology has determined that no further remedial action is necessary to clean up contamination at the site. Confirmation soil sample analytical results from 2012 indicated that petroleum-contaminated soil was successfully removed following soil excavation. The 2014 FS noted that the results of more than 2 years of quarterly groundwater monitoring, conducted from 2012 through 2014, demonstrated that groundwater at the property had been in compliance with MTCA CULs at the proposed points of compliance. It is assumed that this site does not have any ongoing upland sources.	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.

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2.05E	18382	13121	SDOT South River Street	N	N	Awaiting Cleanup	State Cleanup Process	Soil: Metals (arsenic and lead), cPAHs	Soil	Soil: Method A (Unrestricted Land Use)	N/A	SHARP Report , SHARP, 02-25-2025 Initial Investigation Field Report , Ecology, 06-06-2016 Notification Email , SDOT, 08-05-2016 ENL , Ecology, 09-21-2016	Soil samples were collected associated with a shoreline restoration project by SDOT in 2015. Results showed one sample exceeding the MTCA CULs. An Initial Investigation Field Report was completed by Ecology in 2016, and the site was subsequently listed on the Contaminated Sites List (ENL dated 09-21-2016). It is assumed that an RI is in process.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.
2.1W-2.2W	97573-251	6967	Douglas Management Dock	Y	Y	Started	FS in Progress	Soil/Groundwater: TPH-diesel and TPH-gasoline, VOCs, SVOCs, cPAHs, PAHs, PCBs, pesticides, and metals (copper, lead, mercury and zinc)	Soil, Groundwater, Vapor Intrusion	Soil/Groundwater: Method A (Unrestricted Land Use), Method B	N/A	Public Review Draft Final RI , GeoEngineers, 08-19-2019 Final RI/FS WP , GeoEngineers, 02-15-2013 Final AO , Ecology, 05-06-2011 Initial Investigation , Ecology, 04-18-2011	Three USTs were excavated in 1990. Confirmation soil samples and groundwater sampling conducted between 1990 and 1992 showed MTCA exceedances in both groundwater and soil. An initial investigation was completed by Ecology in 2011. The 2019 RI concluded that the existing data are sufficient to complete the RI, although some relatively minor data gaps remain for deeper contamination related to Industrial Container Services-WA, LLC. Data gaps will be addressed through the Industrial Container Services-WA RI/FS process.	Preliminary (30%) RD assumes that the upland cleanup site overlaps with middle reach sediment RD.

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2.1W	2180	1324	South Park Landfill	Y	Y	Started	RI/FS (submitted 2017 for public comment; finalized in 2021)	Soil: Metals, TPH, VOCs, SVOCs, PCBs Groundwater: Metals (iron, manganese), TPH, SVOCs (vinyl chloride), VOCs, PCBs	Soil, Groundwater, Surface Water, Landfill Gas	Soil: Method A; Method C (Industrial) Groundwater: Method A, B, C, MCL	2018 CAP: landfill cap, landfill gas and surface water control systems, restricting future land use activities, groundwater and landfill gas monitoring	SHARP , Ecology, 11-07-2024 Amended AO fact sheet , Ecology, 11-17-2023 2023 IA WP and Completion Report , Herrera Environmental Consultants, Inc., 02-21-2023 Revised Final RI/FS , Floyd Snider, 02-12-2021 2018 Final CAP , Ecology, 03-26-2019 1st Avenue South Storm Drain SCAP , Ecology, March 2013	The South Park Landfill is a closed solid waste landfill located within the 1st Avenue South Storm Drain (RM 2.1) source control area along the west bank of the river. Potential sources of COCs to LDW sediments near RM 2.1 West include storm drain outfalls and discharges from upland properties. There are no facilities located adjacent to the LDW within the 1st Avenue South Storm Drain source control area. Transport pathways that could contribute to the recontamination of sediments within the source control area following remedial activities include direct discharges via outfalls, bank erosion, groundwater discharges, surface runoff from upland facilities to storm drain ditches and wetland areas, and air deposition. Current data indicate the landfill is not affecting the LDW, but monitoring will continue in order to confirm this. Due to the heterogeneous nature of waste, the landfill contents have not been fully characterized for specific hazardous substances during the RI, although leachate and groundwater were. Soil used as daily cover during operations and as fill during closure and post-closure activities has not been fully characterized. Soil and refuse within the contained area of the Landfill are considered to be compliant with MTCA CULs as long as the requirements for containment are met. Two interim cleanup actions were conducted at the site under the AO, one between 2014 and 2015 by SPPD and another between 2018 and 2021 by the City of Seattle. Comprehensive remedial action based on the 2018 Final CAP and its amendment were set for completion in 2023, with construction expected to begin in 2024. In 2024, a public comment period on an amended AO and IA WP was held, and Ecology is in the process of reviewing the public comments received. A separate public outreach event will be held for an amended Consent Decree and associated CAP for other properties at the site. It is assumed that this site is undergoing design.	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.

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2.25E	3505	16678	Dawn Food Products	N	Y	Started	RI WP (2024)	Soil: Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc), cPAHs Groundwater: Metals (arsenic, cadmium, chromium, copper, mercury, nickel, zinc), SVOCs (vinyl chloride, PCE, TCE, cis-1,2-Dichloroethene), TPH-diesel, TPH-gasoline	Soil, Groundwater, Vapor Intrusion	Soil/ Groundwater: Method A (Unrestricted Land Use), Method B	Selected Remedy for IA WP: Enhanced in-situ reductive dechlorination (injection locations focus on areas with PCE and TCE detected)	AO Amendment Letter , Ecology, 07-24-2024 RI WP , Crete Consulting, 01-31-2024 IA WP , Crete Consulting, 06-10-2024	Soil, groundwater, and vapor data were proposed in the 2024 RI WP. RI WP field work was scheduled to start within 30 days of Ecology approval of the 2024 RI WP. It is assumed that an RI is ongoing.	Upland cleanup site is adjacent to RAL exceedance area(s).
2.2W–2.3W	2154	62	Industrial Container Services-WA	Y	Y	Started	RI Public Review Draft (2020; revised 2024); FS Public Review Draft (2020; revised 2024)	Soil: Metals, petroleum hydrocarbons, cPAHs, PCP, DDT, dieldrin, PCBs, VOCs Groundwater: VOCs, SVOCs, PCBs, petroleum hydrocarbons, pesticides	Soil, Groundwater	Soil/ Groundwater: Method A (Industrial)	Preferred alternatives (April 2025 Ecology Fact Sheet): Excavation; cap, ICs; groundwater monitoring	FS Report: Public Review Draft , DOF, (revised 09-01-2024) Industrial Container Services, RI/FS fact sheet , Ecology, Revised 04-10-2025 RI Report: Public Review Draft , DOF, 02-17-2020 (revised 06-27-2024)	The 2025 public comment period is underway for the RI and FS. If no significant changes are made, Ecology, and then the PLPs, will finalize the documents. The CAP and a future legal agreement were scheduled to be available for review during a future public comment period. It is assumed that the site is in the CAP process.	Preliminary (30%) RD assumes that the upland cleanup site overlaps with middle reach sediment RD.
2.35E	9809	12115	Whitehead Tye	Y	Y	Started	RI WP (2023); IA (2017; completion 2023)	Soil/Groundwater: TPH, PCP, VOCs (PCE), PCBs, PAHs, metals (copper, lead, mercury)	Soil, Groundwater	Soil: Method A (Unrestricted and Industrial), Method B	IA: Excavation and stormwater conveyance system	RI WP , Floyd Snider, 05-15-2023 IA Completion Report , Floyd Snider, 08-20-2020	Additional data will be gathered as part of the 2023 RI to further characterize upland soil and groundwater conditions to fill existing data gaps.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.

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2.3E	2282	5082	Fox Avenue Building	Y	Y	Started	RI (2011) FS (2012); IA (2009; Completion Report 2020)	Soil: VOCs (PCE) Groundwater: Chlorinated solvent, TPH, benzene, PCP, SVOCs (bis(2-ethylhexyl) phthalate), VOCs (PCE, TCE, 1,1-Dichloroethene, vinyl chloride), metals (copper, nickel)	Soil, Groundwater, Vapor Intrusion	Soil: Method C (Industrial) Groundwater: Method B	Thermal treatment by ERH; SVE; ERD; MNA; groundwater monitoring	RI/FS , Floyd Snider, 06-10-2011 Final CAP , 07-25-2012	The 2022 periodic review concluded that past and ongoing remedial actions appear to have been effective in reducing concentrations of VOCs in the subsurface, although some groundwater contaminants currently remain at levels exceeding the CULs and RLs. Continued groundwater monitoring and implementation of the ongoing remedial action is required by the CAP. The remedy is expected to be protective of human health and the environment once CULs are met; however, the cleanup is still in process.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.
2.4E	12153 465	2819	Myrtle Street Property (Seattle Iron & Metals)	Y	N	Complete	NFA (1998); rescinded (2025)	Soil: Metals (arsenic, cadmium, chromium, copper, lead, silver, zinc), phenol, phthalates, total PCBs, D/F, o-xylene, naphthalene, HPAHs, LPAHs Groundwater: PCP, TPH-diesel, TCE, naphthalene	Soil, Groundwater, Vapor Intrusion	Soil: Method C (Industrial) Groundwater: Method A, Method B	ICs; groundwater monitoring (1997 to 2002)	NFA Rescission Letter , Ecology, 05-06-2025 Second Periodic Review Myrtle Street Property , Ecology, 04-30-2025	Cleanup activities at this site were completed through the VCP in 1998. Ecology rescinded the 1998 NFA on May 6, 2025. The 2025 second periodic review and NFA determined the site does not appear to accurately reflect site conditions or the protectiveness of the cleanup action. Ecology recommends additional characterization and/or cleanup actions.	Upland cleanup site is adjacent to RAL exceedance area(s).
2.55W	37926 748	17117	Boyer Towing	Y	N	Awaiting Cleanup	State Cleanup Process	Sediment: PCBs, D/F	Site has not been characterized	N/A	N/A	SHARP Report , SHARP, 07-29-2024 ENL , Ecology, 03-04-2025 Ecology Response to Boyer Letter , Ecology, 06-06-2025	In the LDW Bank Sampling Summary Report 2012 and LDW UR Phase 1 PDIER 2023, sediment samples adjacent to the Boyer Towing property exceed RALs for D/F and total PCBs. The site has not yet been characterized. In 2025, an ENL was issued. Ecology requests engagement with the Toxics Cleanup Program to address this site through the formal MTCA process starting with negotiation of an AO to conduct a RI and FS to characterize the site and determine suitable remedial alternatives, if necessary.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.

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2.55W	12139	13120	SDOT South Fontanelle Street	N	N	Awaiting Cleanup	State Cleanup Process	Soil: SVOCs (toluene, ethylbenzene, xylenes), PCBs	Site has not been characterized	Soil: Method A CULs (Not Specified)	N/A	Initial Investigation Field Report , Ecology, 02-26-2016 SHARP Report , SHARP, 02-24-2025	In 2016, Ecology received email notification of property owned by SDOT with MTCA exceedances. Analytical results indicate exceedance of toluene, ethylbenzene and xylenes in soil. Site has not yet been characterized. In 2016, an ENL was issued.	Upland cleanup site is adjacent to RAL exceedance area(s).
2.6E	41684 823	9057	Puget Sound Truck Seattle	Y	N	Complete	NFA (2012)	N/A, no exceedances	Soil, Groundwater	Soil/ Groundwater: Method A (Not Specified)	UST and soil excavation (1991)	NFA Determination , Ecology, 01-12-2012 Initial Investigation Field Report , Ecology, 03-11-2011	In 1991, four USTs and soil were excavated. Confirmation soil and groundwater samples showed samples below the MTCA. In 2012, a NFA determination was issued. Source control determination is listed by Ecology as complete.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.
2.6W	35654 59	5322	Ferguson Construction	N	N	Complete	NFA (1996)	Soil/Groundwater: TPH-gasoline	Soil, Groundwater	N/A	N/A	IRAP NFA Letter , Ecology, 05-29-1996	In 1996, a NFA determination was issued after a review of the site's independent remedial action. Ecology determined that no further action is necessary for TPH at this site under the MTCA.	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.75E	21369	17002	Gateway Park	N	N	Awaiting	Pre-RI	Soil: Metals (lead, mercury, arsenic, other), SVOCs, cPAHs, TPH-diesel, TPH-oil, halogenated solvents, PCBs, D/F Groundwater: TPH-oil	Soil, Groundwater	Soil/ Groundwater: Method A (Unrestricted Land Use), Method B	N/A	SHARP Report , SHARP, 05-03-2024 Initial Investigation Field Report , Ecology, 02-27-2024 Phase II ESA , GeoSciences Inc., 06-22-2023	The 2023 Phase II ESA detected concentrations of COCs in soil and groundwater at concentrations exceeding the applicable MTCA CULs. Detected impacts have not been fully delineated to date. The initial investigation field report was issued in 2024.	Preliminary (30%) RD assumes that the upland cleanup site overlaps with MR sediment RD.
2.7W	22726	2549	640 South Riverside Drive (PPM)	N	N	Started	State Cleanup Process	Soil: Lead, TPH-diesel, TPH-oil, cPAHs, VOCs (PCE, TCE) Groundwater: Metals (arsenic, lead), VOCs (PCE, TCE, DCE, vinyl chloride)	Soil, Groundwater	Soil/ Groundwater: Method A (Not Specified)	Post-cleanup groundwater monitoring (IA Plan)	SHARP Report , SHARP, 02-06-2025 Well Installation and Groundwater Monitoring Plan , Pacific Groundwater Group, 03-31-2016 IA Plan South Park Pump Station & Water Quality Facility Seattle , Pacific Groundwater Group, 2010	In 2008, soil samples showed lead, TPH-diesel, TPH-oil, cPAHs, PCE, and TCE above MTCA A screening levels. Images from Google maps from 2025 show site has been completely cleared with only dirt on site. No cleanup report is currently available. In 2008, groundwater samples showed arsenic, lead, PCE, TCE, DCE, and vinyl chloride above MTCA CULs. No cleanup reports are currently available; however, four groundwater monitoring reports were available for 2016. The fourth-quarter report showed only vinyl chloride was still above MTCA CULs. More information is needed to determine status of contamination on site.	Upland cleanup site is adjacent to RAL exceedance area(s).

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.7W	42127 616	9114	Hurlen Construction (PPM)	N	N	Complete	State Cleanup Process	Soil: TPH-gasoline, xylene Sediment: PCBs, PAHs, SVOCs	Soil, Sediment	Method A (Unrestricted Land Use)	UST and soil excavation (1991)	SCAP: Riverside Drive , Ecology, 08-01-2012 SHA , [Unknown Author], 02-03-2015 SHARP Report , SHARP, 07-29-2024 Hurlen Construction – ENL (for addition of sediment unit) , Ecology, 03-04-2025	Concentrations of TPH-gasoline and xylenes were detected above MTCA CULs in soil at the site in 1993. Approximately 60 cubic yards of soil were excavated and stockpiled for treatment and was backfilled with clean soil; however, the status of cleanup is unclear, and no reports of remedial actions regarding this excavation were available in Ecology's records. The sediment samples adjacent to the Hurlen Construction property exceed RALs for total PCBs, PAHs and SVOCs in sampling events conducted on (1984, 1986, and 1990). The extent or possibility of sediment impact from petroleum products in the underground tanks is unclear at this stage. In 2025, an ENL was issued for sediment contamination.	Upland cleanup site is adjacent to RAL exceedance area(s).

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.85E	29959714	2732	Duwamish River Slip 4	Y	N	Started	RI/FS (Crowley Site)	Soil: PCBs, PAHs, arsenic, TPH Sediment: PCBs	N/A	N/A	ICs; excavation; capping	EAA Long-Term Monitoring Data Report Year 2 (2014) , Integral Consulting Inc./City of Seattle, 12-19-2014 Removal Action Environmental Covenant , EPA, 09-24-2013 LDW Slip 4 Interim Source Control Status Report , Ecology, 03-09-2011	In 2012, the City of Seattle completed a non-time-critical removal action at the Slip 4 EAA, including contaminated sediment removal, capping, and habitat enhancements. Post-construction sampling confirmed that surface sediments met RAOs within the EAA. Elevated PCB levels found in the adjacent boundary area during construction were addressed by placing a 9-inch sediment cap, which subsequent sampling confirmed met RAOs. In the EAA boundary area, one intertidal sediment sample collected as part of the Crowley site RI/FS exceeded total PCB concentrations for SQS criterion. From the 2014 EAA Long-Term Monitoring Data Report Year 2, Ecology determined that source control within the Slip 4 drainage basin was sufficient to allow the Slip 4 remedy to be implemented; however, source control efforts in the Slip 4 basin and overall LDW basin continue.	EAA adjacent to RAL Exceedance Area 3.

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.8E	1940187	2520	Crowley Marine Services 8th Ave S	Y	Y	Started	RI Public Review Draft (2019); FS in Progress	Soil: Metals (arsenic, copper, lead, selenium), PCBs, cPAHs, D/F, TPH, VOCs (vinyl chloride) Groundwater: Metals (arsenic and copper), cPAHs, PCBs, VOCs (vinyl chloride) Sediment: PCBs, cPAHs	Soil, Groundwater, Vapor Intrusion, Stormwater, Sediment	Soil: Method A, Method B (Residential and Industrial); though the site meets the industrial site requirements, Ecology required that soil concentrations protective of human direct contact (ingestion only) under residential land use) Groundwater: Method B	N/A	Fact Sheet , Ecology, 05-01-2024 Public Review Draft RI Report , SLR, 05-16-2024 SEPA DNS Withdrawn and IA Suspended , Ecology, 10-01-2014	In 2014, SEPA and MTCA public review periods were held for a IA WP until the site was identified with high potential for archeological resources. Ecology withdrew the DNS and suspended IA in 2014. The 2024 Draft RI was determined to sufficiently characterize site-related chemicals to proceed with future FS. A comment period was held for RI in 2024. The future FS and CAP will be available for public comment.	Upland cleanup site is adjacent to RAL exceedance area(s).

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.8E	2050	4765	North Boeing Field GTSP	Y	N	Started	RI/FS WP (2013), RI WP (PFAS; 2025) and Draft IA WP (2023)	<p>Soil: PCBs, TPH, PAHs, metals (antimony, arsenic, cadmium, chromium, copper, lead, mercury, zinc)</p> <p>Groundwater: TPH, VOCs, SVOCs, metals (antimony, arsenic, chromium, lead)</p> <p>Stormwater Solids: PCBs, PAHs, SVOCs, metals (arsenic, copper, lead, mercury, zinc)</p>	Soil, Groundwater, Stormwater	Soil/ Groundwater: Method A (Unrestricted Site Use), Method B	Soil excavation; capping; storm drain upgrades and cleanup	<p>North Boeing Field GTSP – Revised PFAS Investigation WP, Geosyntec, 07/25/2025</p> <p>North Boeing Field/GTSP – IA and SEPA Determination Fact Sheet, Ecology, 10-13-2022</p> <p>North Boeing Field/GTSP RI/FS WP, Ecology, 11-11-2013</p>	<p>The cleanup site is within the Slip 4 EAA, where EPA completed an early cleanup in 2012. As part of that work, Boeing and the City of Seattle removed debris and cleaned sediments and Boeing installed a stormwater treatment system that significantly reduced PCB runoff into the river.</p> <p>The city also independently removed PCB-contaminated soil from the southwest portion and boundary of the GTSP property in 1985 and 2006 and in 2009 replaced the GTSP Flume, a known contamination source. In 2011, Boeing removed contaminated soil along the Steam Plant fence line, and later that year, Boeing and the city jointly removed PCB- and petroleum-contaminated soil under Ecology's direction. Contaminated areas were also capped. Since 2010, Boeing has removed thousands of feet of PCB-contaminated joint material, re-sealed joints, and upgraded storm drains.</p> <p>The current IA aims to remove accessible soil with chemicals of concern above MTCA screening levels. The Dog Park Project Area will then be backfilled with clean soil and redeveloped as a community park. No COCs were detected in groundwater, indicating low risk of leaching.</p> <p>Ecology is finalizing the IA WP, describing the Dog Park cleanup, and a SEPA DNS, which details Ecology determination that the cleanup work is not likely to harm the environment.</p> <p>Additionally, in 2025, a Revised PFAS Investigation WP was developed in response to Ecology's 2022, letter requesting Boeing, the City of Seattle, and King County investigate potential sources, nature, and extent of PFAS at the site. The WP outlines proposed sampling activities to evaluate the presence or absence of PFAS in groundwater, as PFAS-containing foam is currently stored at the North Boeing Field site. Areas where these materials were previously or are currently stored have been identified, along with buildings and locations where historical spills or discharges occurred to the sanitary sewer or storm drain system.</p>	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR, but it has stormwater that drains to Slip 4.

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.85E	4256186	3987	Vic Markov Tire Co.	N	N	Started	Pre-RI	Groundwater: TPH	Groundwater	N/A	N/A	Memorandum: SHA Not Completed , EPA, 10-29-2015 Final LDW RI Appendix G , LDWG, 07-09-2010	As of 2015, the site is located within the GTSP AO area and is listed in the 2010 Final LDW RI Appendix G for having groundwater monitoring activity occurring at the site. The site also has a 1993 release notification in Ecology's LUST database; however, no additional publicly available cleanup status updates from Ecology are currently available.	Upland cleanup site is adjacent to RAL exceedance area(s).
2.8W	100003523	17204	Eddie Bell Junk Metals	N	N	Awaiting Cleanup	State Cleanup Process	Soil: PCBs	N/A	N/A	N/A	ENL , Ecology, 06-05-2025 [Various historical reports, ranging from 1987-1997]	1987 inspection report details oil soaked soil in central area of Site. PCBs found in surface water runoff exiting property. In 2025, ENL was issued.	Upland cleanup site not adjacent to any RAL exceedance areas within the LDW MR.
2.8W	2462	5109	Evergreen Marine Leasing Parcel E	N	N	NFA	NFA (1997; TPH-diesel in soil and groundwater only)	Soil: Metals (copper, lead, zinc), TPH-diesel, cPAHs Groundwater: TPH-diesel	Soil, Groundwater	Soil: Method A, Method C (Industrial) Groundwater: Method A	ICs (restrictive covenant); UST (1991) and soil excavation (1991 to 1996); groundwater sampling (1990 to 1998)	Evergreen Marine Leasing Parcel E – Periodic Review , Ecology, 06-01-2025 Evergreen Marine Leasing Parcel E – IRAP NFA with Environmental Covenant , Ecology, 11-25-1997	Five USTs were removed, and soil excavated during the UST removal was stockpiled and sampled for disposal in 1991. Additional remedial excavations of impacted soil was conducted in 1996. Cleanup activities were completed under the IRAP. Residual concentrations of TPH-diesel that exceed MTCA CULs remain on the property in soil. Metals and cPAHs may also remain in soil at concentrations exceeding MTCA CULs. Ecology issued a NFA determination letter in 1997, which was contingent on recording a restrictive covenant and groundwater monitoring. On 1998, Ecology issued a letter indicating that the groundwater monitoring required in the NFA letter had been completed. The NFA determination was made only with respect to the TPH-diesel release to soil and groundwater.	Upland cleanup site is adjacent to RAL exceedance area(s).

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
2.8W	2335	2055	Interstate Coatings	N	N	Started	Pre-RI	Soil: TPH-diesel, metals (arsenic, lead, chromium)	Soil	Soil: Method A (Not Specified)	N/A	SHA , Ecology, 08-01-1998	In 1990, a complaint was made to Ecology that Interstate Coatings spilled oil, solvents, and thinners on their property; Ecology confirmed that the property had visible contamination. The 1998 Site Hazard Assessment was conducted and soil samples were tested; all samples showed exceedances in MTCA CULs for TPH-diesel and metals (arsenic, lead, chromium).	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.
2.9W	16139	12300	Independent Metals Plant 2	Y	Y	Started	RI WP (2023)	Soil: TPH, cPAHs, VOCs (PCE, TCE), PCBs, metals (arsenic, cadmium, lead)	Soil	Soil/ Groundwater: Method A (Industrial)	UST excavation (2017)	Final RI WP , Floyd Snider, 05-11-2023 AO, Public Participation Plan Fact Sheet – October 2022 , Ecology, 10-12-2022	In 2009, the site was listed as a Confirmed and Suspected Contaminated Site following an SHA that identified PCB and metal releases, prompting inclusion in existing NPDES monitoring. In 2017, five underground petroleum storage tanks and related piping were removed, accompanied by initial soil and groundwater investigations. Ecology also conducted an Initial Site Assessment in 2015; investigations confirmed hazardous substances present in the soil exceeding MTCA CULs. In 2022, Ecology held a public comment period on the Public Participation Plan and AO; Ecology has been finalizing the documents, including the RI WP, through 2024.	Upland cleanup site not within 500 feet of the LDW MR.
3.0E	2100	7370	Boeing Plant 2	Y	N	Started	State Cleanup Process	VOCs, PCBs, PAHs, metals, TPH	Soil, Groundwater, Sediment, Stormwater	N/A	ICs; dechlorination; excavation; stormwater treatment system; groundwater monitoring	LDW Source Control Status Report 2020 , Ecology, August 2022 Corrective Action Cleanups Around the Nation: Boeing Plant 2 , EPA, Website Accessed September 2025 ^e	Boeing completed an early action cleanup in 2015. The in-waterway sediment at the facility was cleaned up and habitat restoration completed in 2015. In the upland area of the facility, Boeing has completed several interim soil cleanups and installed stormwater treatment systems to prevent contaminants from entering the LDW. In 2022, EPA issued the Final Corrective Action Decision for the remaining uplands areas of the facility. Corrective measures will include dechlorination, excavation, and more. In addition to cleanup technologies, long- and short-term groundwater monitoring and engineering ICs are necessary.	EAA adjacent to RAL Exceedance Area 1.

Approximate Nearest RM	Facility Site ID	Cleanup Site ID	Adjacent Upland Cleanup Site Name	Site Listed in Ecology's 2022 LDW Source Control Status Report? (Y/N)	Site Listed in Ecology's 2024 LDW Cleanup Update? (Y/N)	Ecology-Designated Cleanup Status (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^c	Assumed Status of MCTA Cleanup Process	Documented Upland Contaminants Above Upland CULs	Upland Environmental Data Evaluated	MTCA CULs Used	Remedial Technology Previously Implemented or Proposed for Future Implementation	References	Summary of Ecology's Cleanup Site Status and Findings (per Ecology's Website "What's in My Neighborhood: Toxics Cleanup") ^d	Proximity to LDW MR RAL Exceedance Area
3.1W	49919	15139	Duwamish Waterway Park	Y	Y	Started	Draft RI/FS WP (2022)	Soil: Metals (including arsenic, lead, mercury), PCBs, cPAHs, D/F, TPH, phthalates	Soil	Soil: Method A (Unrestricted Land Use)	Interim cleanup actions (2021): Soil excavation, clean fill replacement, pathway construction, landscaping, and capping	Fact Sheet – Duwamish Waterway Park – English – January 2023 , Ecology, 01-18-2023 Draft RI/FS WP, Herrera Environmental Consultants, Inc. , 04-26-2022 Initial Investigation Field Report , Ecology 09-14-2021	In July 2020, SPR entered the VCP for the Duwamish Waterway Park and submitted an RI for Ecology's review. After Ecology requested more information, SPR began site renovations in 2020. A revised RI was submitted in August 2021, detailing interim cleanup actions such as soil excavation, clean fill replacement, pathway construction, landscaping, and capping. A draft RI/FS WP was submitted in 2022 to further characterize the nature and extent of COCs in soil, sediment, groundwater (including seeps), and surface water. In 2023, Ecology held a public comment period on the Public Participation Plan and AO; Ecology has been finalizing the documents, including the RI WP, through 2024.	Upland cleanup site not adjacent to nor within 500 feet from the LDW MR.

Notes:

Shaded cells represent upland cleanup sites not adjacent to nor within 500 feet from the LDW middle reach top of bank.

- a. Ecology, 2022. *Lower Duwamish Waterway Source Control Status Report 2020*. Washington State Department of Ecology. Publication No. 22 09-178. August 2022.
- b. Ecology, 2024. *Lower Duwamish Waterway – 2024 Cleanup Update*. Washington State Department of Ecology. Publication No. 24-09-141. June 2024.
- c. Ecology's map-based search tool website "What's in My Neighborhood: Toxics Cleanup" can be accessed at: <https://apps.ecology.wa.gov/neighborhood/>.
- d. Summaries adapted from reviewing publicly available cleanup site documents and information on Ecology's website "Cleanup and Tank Search." Status determinations are based on information available from Ecology's website, and in some cases, these determinations may be dated. Subsequent remedial actions may have been completed, and site may now be cleaned up. Ecology's website can be accessed at: <https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/all>.
- e. EPA's "Corrective Action Cleanups Around the Nation: Boeing Plant 2" website can be accessed at: <https://www.epa.gov/hwcorrectiveactioncleanups/epa-rcra-id-wad009256819#:~:text=In%20the%20upland%20area%20of,not%20been%20reported%20in%20RCRAInfo>.

Abbreviations:

AO: agreed order	EPA: U.S. Environmental Protection Agency	LPAH: low-molecular-weight polycyclic aromatic hydrocarbon	PLP: potentially liable person	SVE: soil vapor extraction
BTEX: benzene, toluene, ethylbenzene, and xylene	ERD: enhanced reductive dechlorination	LUST: leaking underground storage tank	PPM: Pacific Pile & Marine	SVOC: semivolatile organic compound
CAP: cleanup action plan	ERH: electrical resistance heating	MCL: maximum contaminant level	RAL: remedial action level	T-115: Terminal 115
COC: contaminant of concern	ESA: environmental site assessment	MNA: monitored natural attenuation	RAO: remedial action objective	TCE: trichloroethylene
cPAH: carcinogenic polycyclic aromatic hydrocarbons	FS: feasibility study	MTCA: Model Toxics Control Act	RD: remedial design	TPH: total petroleum hydrocarbons
CSO: combined sewer overflow	GTSP: Georgetown Steam Plant	N/A: not applicable	RI: remedial investigation	UST: underground storage tank
CUL: cleanup level	HPAH: high-molecular-weight polycyclic aromatic hydrocarbons	NFA: no further action	RL: reporting limit	VCP: voluntary cleanup program
D/F: dioxins and furans	IA: interim action	NPDES: National Pollutant Discharge Elimination System	RM: river mile	VOC: volatile organic compound
DCE: dichloroethene	IC: institutional control	PAH: polycyclic aromatic hydrocarbons	SCAP: source control action plan	WP: work plan
DDT: dichlorodiphenyltrichloroethane	ID: identification	PCB: polychlorinated biphenyl	SDOT: Seattle Department of Transportation	
DNS: determination of non-significance	IRAP: interim remedial action plan	PCE: tetrachloroethylene	SEPA: State Environmental Policy Act	
DOF: Dalton, Olmsted & Fuglevand, Inc.	LDW: Lower Duwamish Waterway	PCP: pentachlorophenol	SHA: site hazard assessment	
EAA: early action area	LDW MR: Lower Duwamish Waterway Middle Reach	PDIER: pre-design investigation evaluation report	SHARP: site hazard assessment and ranking process	
Ecology: Washington State Department of Ecology	LDW UR: Lower Duwamish Waterway Upper Reach	PFAS: perfluoroalkyl and polyfluoroalkyl substances	SPPD: South Park Property Development, LLC	
ENL: early notice letter			SPR: Seattle Parks and Recreation	
			SQS: sediment quality standards	