## Attachment A Figures and Aerial Photographs from Prior Reports Related to the Inlet at RM 2.2W



Attachment A
Figures and Aerial Photographs from Prior Reports
Related to the Inlet at RM 2.2W

This attachment contains useful excerpts related to the Inlet at river mile (RM) 2.2W that have been reproduced from the remedial investigation (DOF 2020) and draft feasibility study (DOF 2023, 2020) developed for the Industrial Container Services (ICS)/NW Cooperage Site. Figures included in this attachment are as follows:

- Figure A-1: Aerial Photograph from 1936
- Figure A-2: Aerial Photograph from 1960
- Figure A-3: 1943 Mudline Elevations in the Former Duwamish Turning Basin No. 2
- Figure A-4: Aerial Photograph from 1969
- Figure A-5: Aerial Photograph from 2004
- Figure A-6: Concentrations of Polychlorinated Biphenyls (PCBs) in Surface Sediment (and Adjacent Soil) for the Inlet at RM 2.2W
- Figure A-7: Cross Section of PCB Concentrations in Sediment for the Inlet at RM 2.2W (Following Length of Inlet from West to East)
- Figure A-8: Cross Section of PCB Concentrations in Soil/Sediment (from ICS/NW Cooperage Site through the Inner Inlet to the Douglas Management Site)
- Figure A-9: Conceptual Site Model for the Inlet at RM 2.2W



Figure A-1 Aerial Photograph from 1936

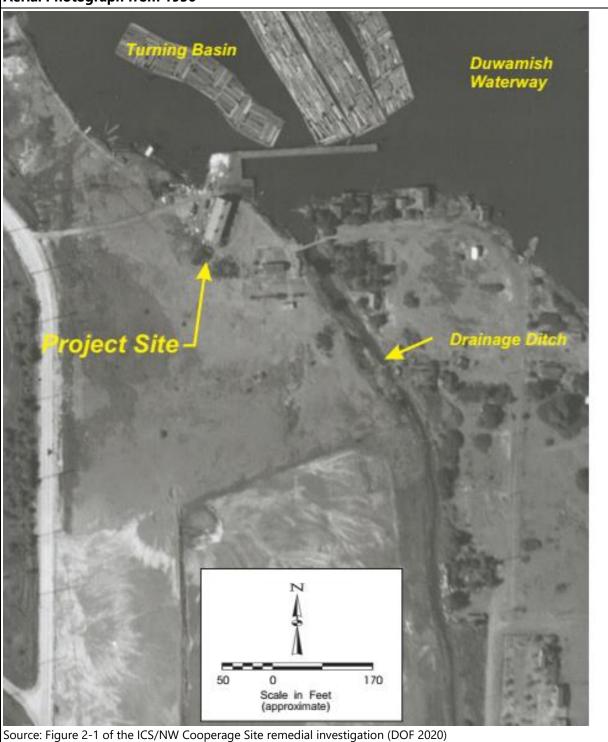


Figure A-2 Aerial Photograph from 1960

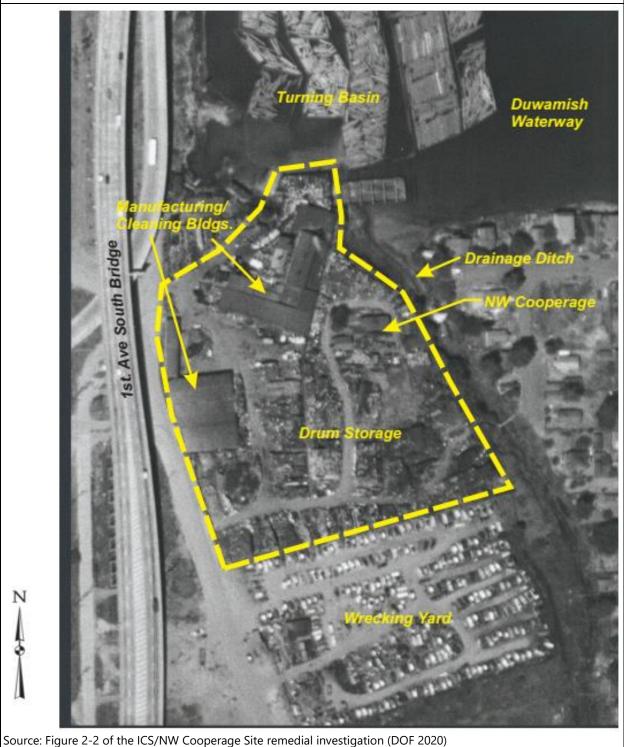
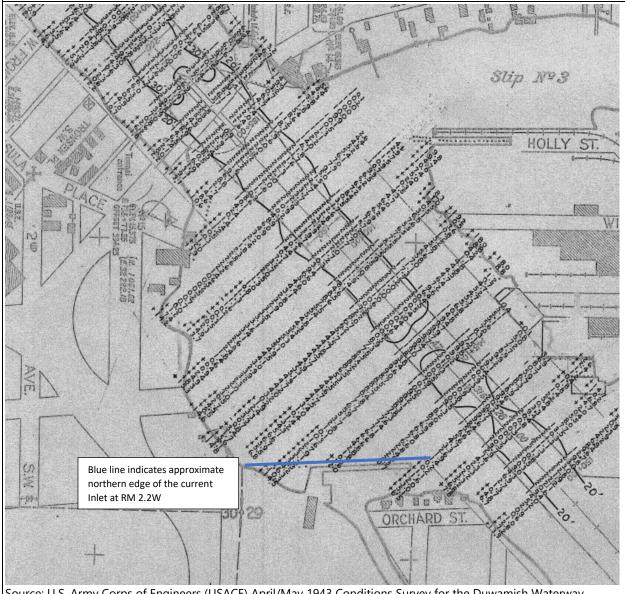


Figure A-3 1943 Mudline Elevations in the Former Duwamish Turning Basin No. 2



Source: U.S. Army Corps of Engineers (USACE) April/May 1943 Conditions Survey for the Duwamish Waterway (USACE 1943)

Figure A-4 Aerial Photograph from 1969



Figure A-5 Aerial Photograph from 2004

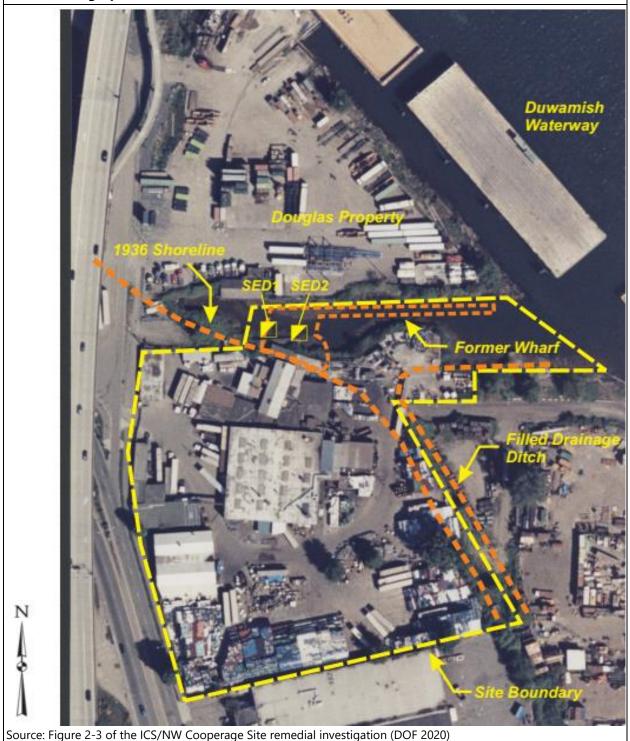


Figure A-6 Concentrations of PCBs in Surface Sediment (and Adjacent Soil) for the Inlet at RM 2.2W LDW-SC40 Legend 200 **Total PCBs** Scale in Feet (approximate) 1920 Conc. (ug/kg) Outfall ≤1000 ug/kg Stormsewer >1000 to 10,000 ug/kg ICS/NW Cooperage Seattle, Washington Former Lagoon >10000 to 50,000 ug/kg Section Trend PCBs (dry weight) in Sediment (approx. <1.0') Sediment Core >50,000 ug/kg Sediment CUL = 2 ug/kg - dw (ROD RAL) SUM-008-03 FS FIGURE 4-21a June 2021 Ref: Embay 0 to 1' sed concFS.cdr Dalton, Olmsted & Fuglevand, Inc.



Source: Figure 4-21a of the draft ICS/NW Cooperage Site feasibility study (DOF 2023)

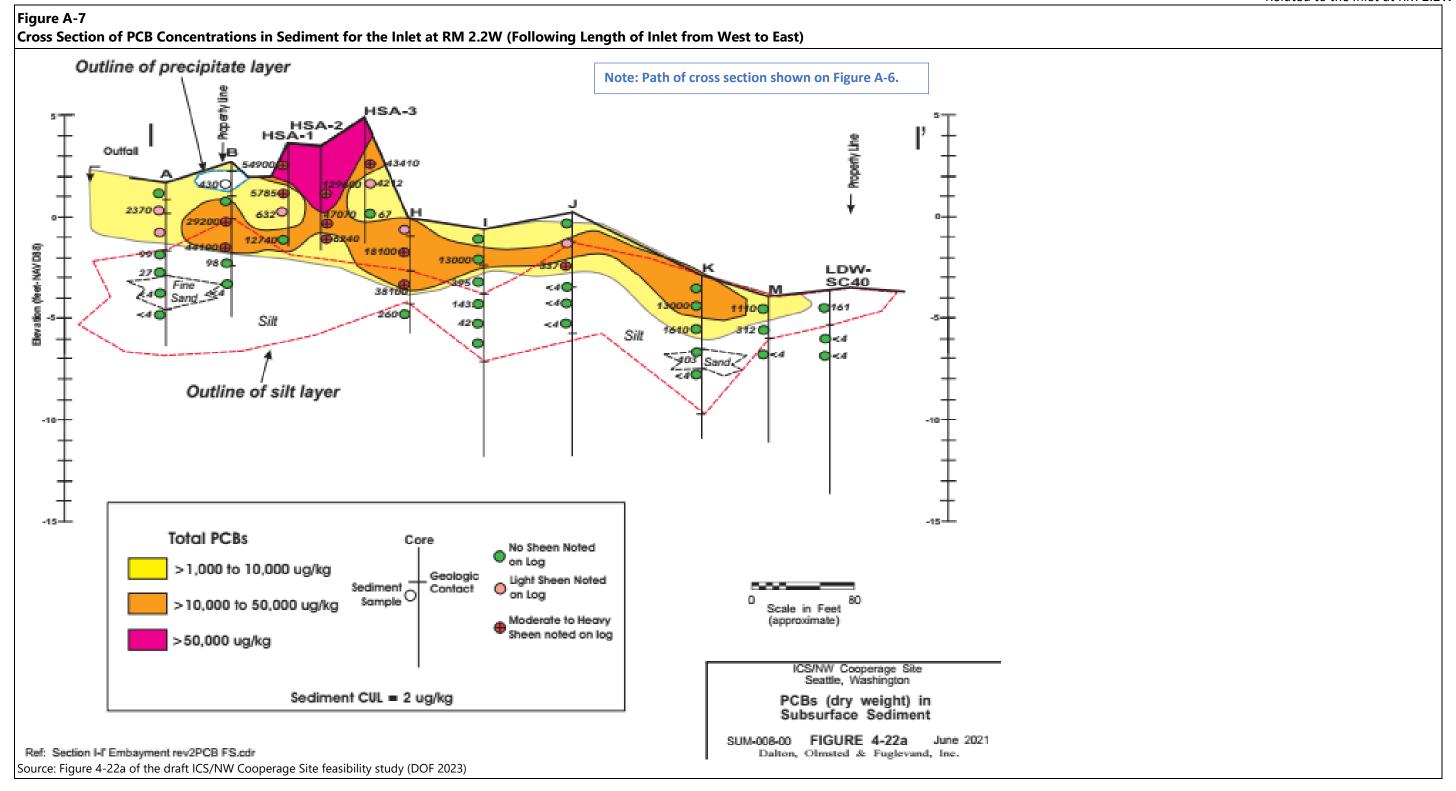




Figure A-8
Cross Section of PCB Concentrations in Soil/Sediment (from ICS/NW Cooperage Site through the Inner Inlet to the Douglas Management Site)

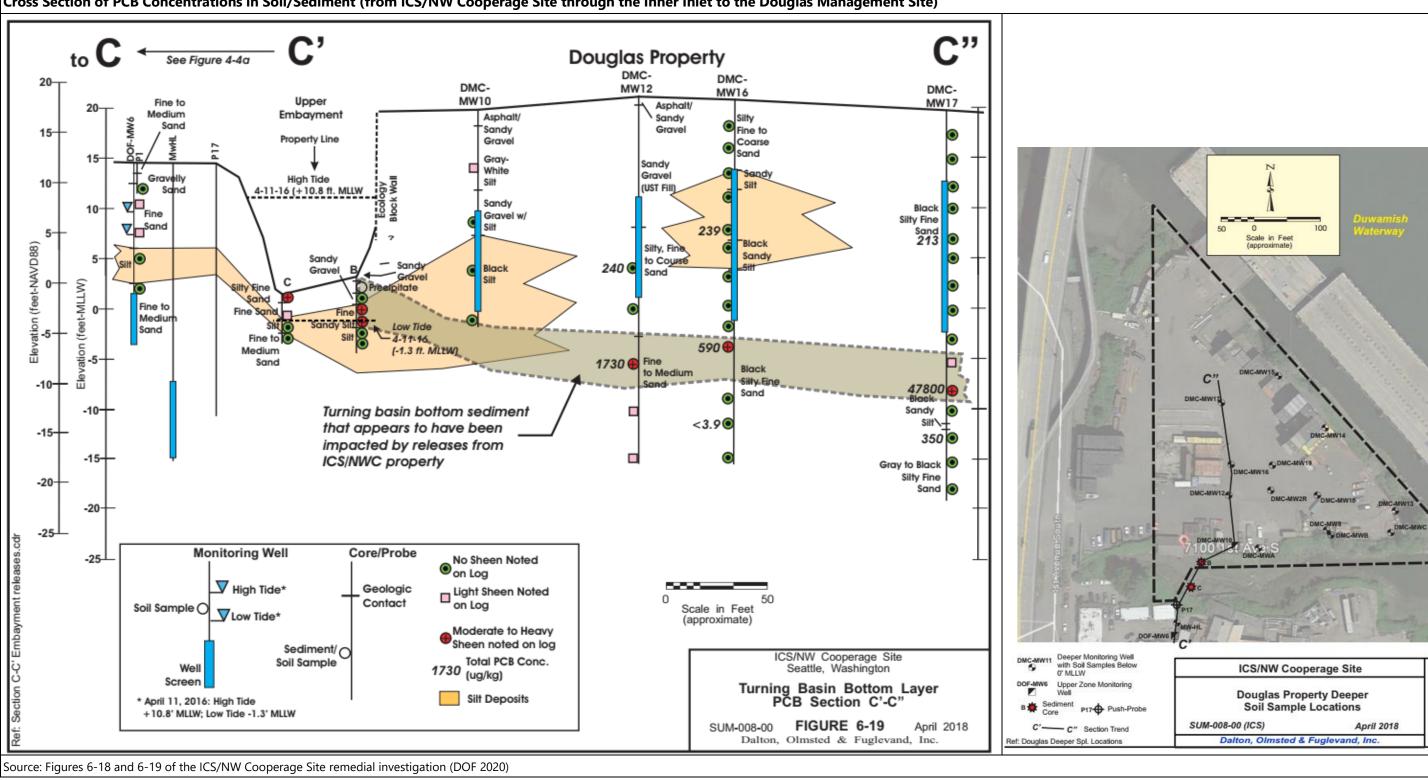




Figure A-9 Conceptual Site Model for the Inlet at RM 2.2W ICS/NWC Property **Douglas Property** storm water collected, treated, discharged to precipitation Intertidal Embayment sanitary sewer drum paving Water Table Contaminated Soil Silt Aquitard Flow Towards LDW (5) Contaminated Sediment Buried Turning Flow Towards Basin Sediment Completed Exposure Pathways LDW Possible Exposure Receptors Direct Contact\* Soil/Groundwater Utility workers/wildlife Excavation/burrowing 2 Direct Contact\* Sediment Organisms living in sediment matrix Aquatic organisms 3 Direct Contact\* Sediment Beach play; shellfish harvesting and foraging (inc wildlife); consumption of aquatic organisms (4) Direct Contact\* Surface Water\*\* Marine life/visitors Fin fish during higher tides; visitor recreation; Soil Leaching/Groundwater ICS/NW Cooperage Site to Surface Water and Sediment Groundwater Seepage at Low Tide; Possible NAPL seepage (SA-MW1 Area); Bank Soil/Sediment Erosion Low Tide Flow Direction - Flow to Surface Water Conceptual Site Model High Tide Flow Direction - Flow Reversal into Uplands B Storm Water Discharge - 2nd. Ave. Outfall (drainage area to south) Upper End of Embayment \* Direct contact - dermal contact and incidental ingestion \*\* Surface water affected by groundwater discharges FIGURE 2-3a June 2021 SUM-008-00 Ref: Conceptual Pathways FS rev.cdr Dalton, Olmsted & Fuglevand, Inc.



Source: Figure 2-3a of the draft ICS/NW Cooperage Site feasibility study (DOF 2023)



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## References

- DOF. 2020. Remedial investigation report, Industrial Container Services, WA, LLC (former NW Cooperage site). Prepared for Herman and Jacqualine Trotsky and Industrial Container Services, WA, LLC. Dalton, Olmstead & Fuglevand.
- DOF. 2023. Feasibility study report, Industrial Container Services, WA, LLC (former NW Cooperage site).

  Dalton, Olmsted & Fuglevand, Inc.
- USACE. 1943. Duwamish Waterway conditions survey April-May 1943. US Army Corps of Engineers, Seattle, WA.