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October 18, 2024

Our Reference 60692669

Christa Colouzis Washington State Department of Ecology 15700 Dayton Ave. N. Shoreline, WA 98133-9716

Status Report for Third Quarter 2024
Port of Seattle Terminal 91 Site
Agreed Order Numbers DE 8938 and DE 24768

Dear Ms. Colouzis,

AECOM Technical Services, Inc. (AECOM) has prepared this quarterly status report for the Terminal 91 Site (T91 Site) on behalf of the Port of Seattle (Port) as required under the terms of:

- Agreed Order No. DE 8938, amended by the First Amendment to Agreed Order (January 2016) (subsequent Agreed Order references here include this amendment) between the Port and the Washington State Department of Ecology (Ecology); and,
- Agreed Order No. DE 24768, amended by the First Amendment to Agreed Order (May 2023) (subsequent Agreed Order references here include this amendment) between the Port and Ecology.

This quarterly status report fulfills the required reporting for both agreed orders. The status reports are combined because the T91 Site is regulated as a single site under the Resource Conservation and Recovery Act (RCRA) due to historical permitted hazardous waste operations at the site. Agreed Order DE 8938 describes ongoing work in the uplands portion of the T91 Site (hereafter referred to as Upland Areas); the portions of Agreed Order DE 8938 related to submerged lands have been satisfied. Agreed Order DE 24768 describes work for the Remedial Investigation (RI), the Feasibility Study (FS), and the draft Cleanup Action Plan (dCAP) in the submerged lands portion of the T91 Site (hereafter referred to as Submerged Lands).

#### 1. Work Performed

Work performed during the period from July through September 2024 (third quarter) applicable to the entire T91 Site includes, by report:

- The Status Report for Second Quarter 2024 (AECOM 2024a) was submitted to Ecology on July 19, 2024.
- The T-91 Well Decommissioning Request memorandum (AECOM 2024b) was submitted to Ecology on August 20, 2024.
- The Exposed Slope Sampling Plan (Port of Seattle 2024) was submitted to Ecology on September 18, 2024.

#### 1.1 Uplands Areas – Agreed Order DE 8938

#### 1.1.1 Tank Farm Affected Area

- Consistent with the Compliance and Monitoring Plan (CMP) (PES Environmental [PES] 2013a), and subsequent approvals (PGG 2019 and Ecology 2021a), groundwater sampling and water level monitoring occur on an annual basis in August of each year. The next event is scheduled for August 2025.
- The quarterly light non-aqueous phase liquid (LNAPL) monitoring event at the Tank Farm Affected Area (TFAA) was performed on August 7 and 8, 2024, by Mott MacDonald (MM), on behalf of the Port. The scope of work is



described in the Operations and Maintenance (O&M) Plan (PES 2013b). The following observations were made and/or actions were performed:

LNAPL thicknesses ranged from non-detect to 0.24 feet, consistent with previous measurements. LNAPL recovery was not performed because LNAPL thicknesses were less than 0.25 feet.

#### 1.1.2 Discrete Units

No actions were conducted nor work products required for the discrete units during this quarter.

#### 1.1.3 Submerged Lands – Agreed Order DE 8938

Ecology approved the final deliverable for the submerged lands preliminary investigation by letter dated September 28, 2018. There are no remaining work products or deliverables for the submerged lands under Agreed Order DE 8938.

#### 1.2 Submerged Lands – Agreed Order DE 24768

Anchor QEA and Windward, on behalf of the Port, delivered the draft Terminal 91 Submerged Lands Feasibility Study Work Plan to Ecology on April 22, 2024. Ecology provided their comments on the Feasibility Study Work Plan on June 27, 2024 (Ecology, 2024).

#### 2. Problems, Solutions, and Deviations from Work Plans

This section describes deviations from the respective Agreed Order scopes of work or associated work plans developed under the Agreed Orders.

#### 2.1 Uplands Areas – Agreed Order DE 8938

The annual groundwater monitoring event and water level monitoring schedule was adjusted from May to August of each year beginning in 2021 and for future monitoring events.

#### 2.2 Submerged Lands – Agreed Order DE 24768

There were no deviations from Work Plans in the third quarter of 2024.

#### 3. Projected Work for October through December 2024 (Fourth Quarter)

The sections below describe the work anticipated to be performed in the Uplands and Submerged Lands portions of the T91 Site in the next quarter.

#### 3.1 Uplands Areas – Agreed Order DE 8938

MM, on behalf of the Port, plans to perform quarterly LNAPL gauging in the TFAA in November 2024, as described in the CMP (PES 2013a) and O&M Plan (PES 2013b).

AECOM, on behalf of the Port, plans to decommission 48 inactive wells throughout the terminal in accordance with Ecology's October 11,2024 approval of the T-91 Well Decommissioning Request memorandum (AECOM 2024b).

#### 3.2 Submerged Lands – Agreed Order DE 24768

Windward, on behalf of the Port, has submitted the draft revised Remedial Investigation Report (Windward 2023). The final Remedial Investigation Report will be prepared following the receipt of Ecology comments.

Anchor QEA and Windward submitted the draft Feasibility Study Work Plan (Anchor QEA & Windward, 2024). The final Feasibility Study Work Plan will be submitted to Ecology on or before October 25, 2024. This revised Feasibility Study Work Plan schedule was approved by Ecology via email on September 13, 2024.



Floyd Snider, on behalf of the Port, plans to collect exposed slope samples during the Terminal Berth 6 & 8 Redevelopment project, as described in the Exposed Slope Sampling Plan (Port of Seattle 2024).

#### 4. Significant Findings, Personnel Changes, Contacts

Unless otherwise reported elsewhere in this report, there were no other significant findings, personnel changes, or contacts during the previous quarter.

Please contact me if you have any questions or comments regarding this quarterly status report.

Kind regards,

AECOM Technical Services, Inc.

Jamalyn Green

Jamalyn Green Senior Engineer

AECOM

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cc: Kathy Bahnick, Port of Seattle

Joanna Florer, Port of Seattle Jalyn Buckley, Port of Seattle Elizabeth Black, Port of Seattle Brian Knox, K&L Gates Paul Kalina, AECOM

Janet Knox, Mott MacDonald Susan McGroddy, Windward

#### **Enclosures:**

Updated Agreed Order No. DE 8938 Exhibit C (Revised 1/8/2019)



#### References:

AECOM, 2024a. Status Report for Second Quarter 2024, Port of Seattle Terminal 91 Site, Agreed Order Numbers DE 8938 and DE 24768. July 19, 2024.

AECOM, 2024b. T-91 Well Decommissioning Request. Prepared for the Port of Seattle. August 20, 2024.

Ecology, 2019. Letter from Tom Mackie, Re: Approval: transition to Annual Confirmational Monitoring in the Tank Farm Affected Area. September 18, 2019.

Ecology, 2021a. Letter from Tom Mackie, Re: Approval: transition to Annual Confirmational Monitoring in the Tank Farm Affected Area Approval (with comments) of Annual Compliance Monitoring Report (November 2019 through August 2020) Terminal 91 Tank Farm Affected Area Seattle, Washington. January 8, 2021.

Ecology, 2021b. Letter from Christa Colouzis, Re: Ecology/Port of Seattle Agreed Order No. DE 24768, Approval of RI WP – Terminal 91 Facility Seattle, Washington. June 3, 2021.

Ecology, 2024. Letter from Christa Colouzis, RE: Ecology comments on Terminal 91 Submerged Lands Draft Feasibility Study Work Plan and appendices, April 2024 (FSID 24768, CSID: 2674). June 27, 2024.

Pacific Groundwater Group [PGG], 2019 TFAA Compliance Monitoring Recommendation and Statistical Analysis, Port of Seattle Terminal 91 Site. August 20, 2019.

Mott MacDonald, 2024b. 2023 Annual Compliance Monitoring Report Terminal 91 Tank Farm Affected Area. Prepared for the Port of Seattle. January 19, 2024.

Port of Seattle, 2024. Exposed Slope Sampling Plan, Terminal 91 Berths 6 & 8 Redevelopment Project. September 18, 2024.

PES Environmental, 2013a. Compliance Monitoring Plan, Terminal 91 Tank Farm Clean-up, Port of Seattle, Washington. Prepared for Port of Seattle. July 11, 2013.

PES Environmental, 2013b. Operation and Maintenance Plan, Terminal 91 Tank Farm Cleanup, Port of Seattle, Seattle, Washington. Prepared for Port of Seattle. July 11, 2013.

Windward Environmental, 2021. Remedial Investigation Work Plan – Final. Prepared for Port of Seattle. June 3, 2021.

Windward Environmental, 2023. Terminal 91 Submerged Lands Remedial Investigation Revised Draft. Prepared for Port of Seattle. December 22, 2023

## Exhibit C

# Releases Requiring Corrective Action

Revised 1/8/19

### Terminal 91 Site - Known Discrete Units of Contamination

Discrete Units to Be Addressed During Redevelopment (Section VII.C.1.a)			
	SWMU, AOC, or	Description	Status
	Other Area		
A.1.	AOC 2	USTs and UST Releases on	Complete with recording of
		Terminal 91 Premises—Tanks	restrictive environmental
		A-G	covenant 8/30/17.

Discrete Units to Be Addressed under Work Plans and Schedules (Section VII.C.1.b)			
	SWMU, AOC, or Other Area	Description	Status
B.1.	SWMU 32	Oil Blending Station	Complete; Ecology letter 4/20/05
B.2.	SWMU 33	Solid Waste Yard	Complete; Ecology letter 4/20/05
B.3.	SWMU 35	Storage Area Outside Building W-47	Complete; Ecology letter 4/20/05
B.4.	SWMU 36	Storage Inside Building W-47	Complete; Ecology letter 4/20/05
B.5.	SWMU 37	Car Wash Station	Complete; Ecology letter 4/20/05
B.6.	SWMU 38	Paint and Motor Oil Waste Building C-154	Complete; Ecology letter 4/20/05
B.7.	SWMU 39	Paint Filter Waste Storage Area	Complete; Ecology letter 4/20/05
B.8.	SWMU 40	Short Fill	Complete after restrictive covenant; Ecology letter 4/20/05
B.9.	SWMU 43	Berth Stations and Valve Vaults	Complete; Ecology letter 4/20/05
B.10.	SWMU 44	Waste Oil Storage Shed	Complete; Ecology letter 4/20/05
B.11.	SWMU 45	Storm Drain at North End of Terminal 91	Complete; Ecology letter 4/20/05
B.12.	SWMU 46	Two Storm Drains at Center of Terminal 91	Complete; Ecology letter 4/20/05
B.13.	SWMU 47	Abandoned Oil/Water Separator	Complete; Ecology letter 4/20/05
B.14.	SWMU 48	Transfer Piping	Complete; Ecology letter 4/20/05

B.15.	AOC 2	USTs and UST Releases on	Complete; Ecology letter
D.13.	11002	Terminal 91 Premises—Tanks	4/20/05
		H and I	1, 20, 00
B.16.	AOC 2	USTs and UST Releases on	Complete; Ecology letter
2.10.	11002	Terminal 91 Premises—Tank J	4/20/05
B.17.	AOC 2	USTs and UST Releases on	Complete; Ecology letter
2.17.	11002	Terminal 91 Premises—Tank K	4/20/05
B.18.	AOC 2	USTs and UST Releases on	Complete; Ecology letter
		Terminal 91 Premises–Tank T	11/16/11
B.19.	AOC 2	USTs and UST Releases on	Complete; Ecology letter
		Terminal 91 Premises–Tank Z	4/20/05
B.20.	AOC 4	Leaking Motor	Complete; Ecology letter
			4/20/05
B.21.	AOC 5	PCB Transformer Pad	Complete; Ecology letter
			4/20/05
B.22.	AOC 7Pier 90 Area	Concrete Aprons	Complete; Ecology letter
			11/16/11
	AOC 7Pier 91 Area	Concrete Aprons (see also	Complete; Ecology email
		1991 Soil Investigation for Pier	10/9/12
		91 Chill Facility)	
B.23.	AOC 16	Inactive Transformers	Complete; Ecology letter
			4/20/05
B.24.	Other Area (from	1990 PNO Pipeline Break	Complete after restrictive
	Baseline Report)	South of Building T-38, Pier 91	covenant; Ecology letter
D			4/20/05
B.25.	Other Area (from	1991 PNO Pipeline Break at	Complete; Ecology letter
D.O.	Baseline Report)	South End of Pier 91	4/20/05
B.26.	Other Area (from	1994 Transformer Pad	Complete; Ecology letter
D 27	Baseline Report)	1004 DAC D '11' C'	4/20/05
B.27.	Other Area (from	1994 DAS Building Site	Complete; Ecology letter
D 20	Baseline Report)	Investigation 1991 Soil Investigation for Pier	4/20/05
B.28.	Other Area (from		Complete; Ecology letter
	Baseline Report)Pier	91 Chill FacilityPier 90 Area	11/16/11
D 20	90 Area	(see also AOC 7)	Complete Factory letter
B.29.	Other Area (from	1996 PNO Pipeline Alignment Soil Remediation, Pier 90	Complete; Ecology letter 11/16/11
B.30.	Baseline Report) Other Area (from	1996 PNO Pipeline Break, Pier	Complete; Ecology email
D.50.	Baseline Report)	91	10/9/12
B.31.	Other Area (from	1994 DAS Utility Trench	Complete; Ecology letter
D.J1.	Baseline Report)	Investigation	11/16/11
B.32.	Other Area	1999 PNO Pipeline Release on	Complete; Ecology email
15.52.	(Independent Cleanup)	Pier 90	3/16/12
L	(macpendent Cicanup)	1101 /0	0/10/12

B.33.	Other Area	Pier 91 Pipeline	Complete; Ecology email
	(Independent Cleanup)	Decommissioning and Historic	10/9/12
		Pipeline Releases in the	
		Vicinity of the Carnitech	
		Building	
B.34.	Other Area	Pier 91 Pipeline	Complete; Ecology email
	(Independent Cleanup)	Decommissioning and Historic	10/9/12
		Pipeline Releases in the	
		Vicinity of the Cruise Ship	
		Terminal	
B.35.	Other Area	Pier 91 Historic Pipeline	Areas B & CComplete;
	(Independent Cleanup)	Releases	Ecology emails 2/3/12 and
			3/16/12
			Area DComplete; Ecology
			email 7/17/13
B.36.	Other Area	Building 136	Complete; Ecology memo
	(Brownfields		emailed 12/23/13
	Investigation)	Building 136 Hydraulic Lifts	Complete; Ecology letter
		Building 150 Hydraune Ents	10/31/18
B.37.	Other Area	Locomotive Fueling Area	Complete; Ecology email
	(Brownfields		8/4/16
	Investigation)		
B.38.	Other Area	Incinerator UST Area	Complete; Ecology email
	(Brownfields		8/4/16
	Investigation)		
B.39.	Tank Farm Affected	Stormwater Sump Bottom	Complete; Ecology letter
	Area Interim Action	Filling Interim Remedial	12/7/11
		Action	

Discrete Units Addressed under the Contamination Contingency Plan			
	SWMU, AOC, or	Description	Status
	Other Area		
B.36.	[intentionally	[intentionally blank]	[intentionally blank]
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#### **REFERENCES**

U.S. Environmental Protection Agency. 1994. Port of Seattle/Burlington Environmental Inc. Terminal 91 Facility, Final Resource Conservation and Recovery Act Facility Assessment. November 4, 1994.

Kennedy/Jenks Consultants. 1996. Letter to Port of Seattle re Update on SWMUs and AOCs at Terminal 91, Port of Seattle. April 12, 1996.

Washington Department of Ecology. 1996. Letter to Port of Seattle re Corrective Action for the Remainder of Terminal 91 Facility. July 3, 1996.

Kennedy/Jenks Consultants. 1997. Terminal 91 Baseline Report, Terminal 91, Seattle, Washington. Prepared for Port of Seattle. April 1997.

Roth, Susan J. 1997. Letter to Washington Department of Ecology re Transmittal of Terminal 91 Baseline Report. April 3, 1997.

Washington Department of Ecology. 1998. Letter to Port of Seattle re Independent Remedial Action Report for the Port of Seattle Terminal 91 Facility. June 26, 1998.

Roth Consulting. 1998. Letter to Washington Department of Ecology re Transmittal of Documents, Terminal 91 Upland Project. October 16, 1998.

Roth Consulting. 1998. Proposed Additional Work, Terminal 91 Upland Independent Cleanup, Port of Seattle. Prepared for Port of Seattle. December 10, 1998.

Port of Seattle. 1999. Letter to Washington Department of Ecology re Submittal of VCP Application and Clarification of 2/9/99 Meeting Minutes, Terminal 91 Upland Independent Cleanup. March 10, 1999.

Roth Consulting. 2004. Letter to Ecology re Request for Letter Confirming No Further Action Required; Certain SWMUs, AOCs, and Other Areas; Port of Seattle Terminal 91 Independent Cleanup; Voluntary Cleanup Program Application Dated March 10, 1999. May 26, 2004.

Washington Department of Ecology. 2005. Letter to Port of Seattle re Certain SWMUs, AOCs and Other Areas at the Port of Seattle's Terminal 91 Facility (listed under the March 10, 1999 Voluntary Cleanup Program Application as *Terminal 91 Uplands*). April 20, 2005.

PES Environmental, Inc. 2009. Pier 90 Independent Remedial Action Report, Pier 90 Work Plan for Confirmation Sampling, and Pier 91 Work Plan for Additional Assessment, Terminal 91, Seattle, Washington. Prepared for Port of Seattle. December 29, 2009.

Pinnacle GeoSciences. 2009. Work Plan, and Sampling and Analysis Plan, Locomotive Fueling Area and West-Central Building 136 Area Investigation, Port of Seattle Terminal 91, Seattle, Washington. Prepared for Port of Seattle. December 29, 2009.

Roth Consulting. 2010. Letter to Ecology re Request for Opinion on T91 Upland Independent Cleanup Areas, Discrete Units B.18, B.22, B.28, B.29, B.30, B.31, B.33, and B.34 from Exhibit C to Draft Agreed Order, Port of Seattle Terminal 91 Site. May 20, 2010.

Roth Consulting. 2011. Stormwater Sump Bottom Filling Interim Remedial Action Report, Terminal 91 Site—Tank Farm Affected Area. April 14, 2011. Attachment C to Status Report for First Quarter 2011 by Kennedy/Jenks Consultants dated April 20, 2011.

Washington Department of Ecology. 2011. Letter to Port of Seattle re Request for Opinion on Some of the Port of Seattle Terminal 91 Discrete Units Identified in Exhibit C of Agreed Order No. DE 7321. November 16, 2011.

Washington Department of Ecology. 2011. Letter to Port of Seattle re Approval of a Tank Farm Affected Area Interim Action at the Port of Seattle Terminal 91. December 7, 2011.

Washington Department of Ecology. 2012. Email from Galen Tritt to Susan Roth re Ecology comments on Summary report Piers 90 and 91 by Kennedy/Jenks. February 3, 2012.

Washington Department of Ecology. 2012. Email from Greg Caron to Susan Roth re T-91 independent cleanup sites B.32 and B.35. March 16, 2012.

Landau Associates. 2012. Focused Investigation Work Plan, Terminal 91 Discrete Unit B.38 (Incinerator Underground Storage Tank Area), Seattle, Washington. Prepared for Port of Seattle. June 26, 2012.

Aspect Consulting. 2012. Summary Report for Additional Assessment Activities, Pier 91, Terminal 91, Seattle, Washington. Prepared for Port of Seattle. August 22, 2012.

Washington Department of Ecology. 2012. Email from Galen Tritt to Susan Roth re FW: Summary Report for Additional Assessment Activities, Pier 91: Ecology response. October 9, 2012.

Washington Department of Ecology. 2013. Email from Galen Tritt to Susan Roth re RE: T91 - Discrete Unit B.35 Area D: Closure Report. July 17, 2013.

Landau Associates. 2013. Closure Report, Discrete Unit B.36 Area, Port of Seattle Terminal 91, Seattle, Washington. Prepared for Port of Seattle. July 24, 2013.

Washington Department of Ecology. 2013. Email from Galen Tritt to Susan Roth re *T91 - Discrete Unit B.36: Closure Report, approval* with attached memo to Kathy Bahnick, Sue Roth, and Ecology NWRO Central Records. December 23, 2013.

Washington Department of Ecology. 2016. Email from Greg Caron to Kathy Bahnick and Susan Roth re NFA request Discrete Units B 37, B 38. August 4, 2016.