

TECHNICAL MEMORANDUM

To: Ian McAllister, Ashleigh Crompton, Mike Champion, and Ryan Schucroft (Woodfibre LNG) **Date:** 17 July 2026

From: Holly Pelletier, Cheng Kuang and Patrick Mueller (Lorax) **Project #:** A825-1

Subject: PE-111578 Weekly Discharge and Compliance Report #122 for July 5 - 11

Waste Discharge Authorization (WDA) Effluent Permit PE-111578 was issued by the British Columbia Energy Regulator (BCER) to Woodfibre LNG on February 9, 2024. The associated WDA discharge and compliance monitoring program is conducted by on-site Environmental Monitors (Roe Environmental) that are sub-contracted to the civil works contractor (LB LNG). Analytical samples are submitted by Roe Environmental to ALS Environmental in Burnaby, BC, for testing. Lorax Environmental Services Ltd. (Lorax) provides water quality database management and WDA compliance reporting services to Woodfibre LNG.

This technical memorandum (Report #122) was prepared by Lorax and summarizes WDA monitoring conducted for the period of July 5 - 11. Monitoring data and pending results from prior monitoring periods available at the time of reporting are tabulated and included as appendices to this memorandum. Report #122 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

“The Permittee shall summarize the results of the discharge and compliance monitoring program in a report that shall be submitted to the BCER weekly over the term of this permit. Reports must include suitable tabulated data. The table must include any applicable regulatory limits/guidelines e.g. permit limits, BC Water Quality Guidelines etc. Any exceedances of respective regulatory limits/guidelines must be clearly highlighted. Any missed sampling events/missing data must be identified with an explanation provided. Reporting frequency may be reduced upon a history of compliance and by written confirmation from the BCER. These reports shall be submitted to Waste.Management@bc-er.ca. A copy of the reports shall be provided to each First Nation consulted with regarding this subject permit, and also made publicly available on the Woodfibre LNG Environmental Reporting webpage.”

Site layout and water management figures and site images are included in Appendix A. Monitoring results are tabulated in Appendix B through Appendix D for contact water, treated water and receiving environment samples.

1. Current Conditions

1.1 Water Management Infrastructure

The Construction Phase of the Woodfibre LNG Export Facility commenced in October 2023. Shoring works along the foreshore areas were initiated in December 2023, and construction of water management infrastructure commenced in early 2024. Land-based construction occurs within two water management areas east and west of Mill Creek, referred to as the east and west catchments, respectively. Non-contact water is intercepted and diverted around the construction areas to Howe Sound and Mill Creek. Stormwater runoff collected within the east and west catchment areas (7.12 and 5.92 ha, respectively) is managed as site contact water and is conveyed to the East Wastewater Treatment Plant (WWTP) for treatment, or to the East and West Sedimentation Ponds for settling of suspended particulate prior to discharge. Intermittent discharge to Howe Sound from the East and West Sedimentation Ponds commenced April and October 2024, respectively.

Non-contact water from the slopes above and outside the Woodfibre LNG construction area is intercepted by diversion ditches and conveyed to Howe Sound or Mill Creek. Diversion ditches for the west catchment convey water to Mill Creek at station OUT-06, or to Howe Sound at station OUT-02 (Appendix A, Figure 1). During heavy precipitation, non-contact water is also conveyed to Howe Sound via station OUT-01. East of Mill Creek, non-contact water is intercepted and diverted around the east catchment along pre-existing road ditches that flow to East Creek or Mill Creek and through Outfall 13 (OUT-13). The diversion ditch connected to Outfall 11 (OUT-11) is not yet constructed; therefore, Outfall 11 is not in use. The lower reach of East Creek discharges to Howe Sound through Outfall 12 (OUT-12).

The contact water conveyance ditches described in PE- 111578 were designed to transport non-contaminated contact water (*i.e.*, stormwater) to the East and West Sedimentation Ponds and will be constructed following completion of site preparation activities (*e.g.*, site grading, bedrock excavation) along the ditch lines. Until the ditches are operational, contact waters within the catchments are managed to remain on site using a system of berms, sumps, temporary ditches and baker tanks for intermediate storage and are then directed to the East WWTP for treatment, or the East and West Sedimentation Ponds prior to re-use or discharge.

The East and West WWTPs were commissioned to treat contaminated contact water in April and August 2024, respectively. The installed treatment capacities are 1,080 m³/day (East WWTP) and 120 m³/day (West WWTP). Lower than expected volumes of contaminated contact water have been encountered during construction; therefore, operation of the West WWTP has been suspended since September 25, 2024, and all contaminated contact waters are directed to the East WWTP for treatment. Treated effluent is generally directed to the East Sedimentation Pond. Occasionally the East WWTP effluent is discharged to Howe Sound at authorized discharge location SP-E-OUT.

Discharge from the East and West Sedimentation Ponds is controlled using pumps. Sedimentation pond effluent is pumped to the 2700GPM TSS settling system to remove TSS prior to discharge. Each sedimentation pond has an associated authorized discharge location (stations SP-E-OUT and SP-W-OUT) with an initial dilution zone (IDZ) where discharged water mixes with Howe Sound surface waters. The IDZ is defined in PE-111578 and extends in a 150 m radius from each point of discharge into Howe Sound. Since June 2025, surplus contact water in the East Sedimentation Pond is directed to the West Sedimentation Pond for storage or discharge, and discharge of clarified non-contaminated contact water to Howe Sound generally only occurs from the West Sedimentation Pond.

The flocculant-based 2700GPM TSS settling system has an installed capacity to clarify 14,700 m³/day of contact water and consists of six parallel treatment trains (Trains 1 to 6), each with an installed capacity of 2,450 m³/day. A staged commissioning of the 2700GPM system began June 2025 and was completed November 2025. Only one train is operated when contact water flows are low. Additional trains are activated as needed to match the influent volumes. Some of the TSS-clarified water may be recirculated back to the ponds or re-used for construction purposes (*e.g.*, dust suppression).

The construction phase water management layout and monitoring stations are shown in Appendix A, Figure 1. Contact water collection and dewatering locations and photographs of the sedimentation ponds are shown in Appendix A, Figure 2 through Figure 5.

1.2 Weather and Water Management

Generally warm and dry conditions were observed during the July 5 - 11 monitoring period, with minor precipitation recorded on July 10 (0.4 mm). The daily weather conditions are summarized in Table 1.

Table 1:
Summary of Certified Project Area (CPA) Daily Weather Conditions.

Date	Precipitation (mm)	Max. Temp (°C)	Min. Temp (°C)	Weather Description
2026-07-05	0	23.9	12.3	Sunny
2026-07-06	0	25.0	13.4	Sunny
2026-07-07	0	23.7	13.7	Sunny
2026-07-08	0	23.5	16.3	Sunny
2026-07-09	0	23.3	15.8	Sunny
2026-07-10	0.4	20.1	15.8	Sunny
2026-07-11	0	20.7	14.7	Sunny

Note: Data retrieved from the Woodfibre on-site weather station operated by Stantec.

From July 5 - 11, the East Sedimentation Pond received recirculated effluent from the East WWTP (Appendix A, Figure 2). No water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from July 5 - 11 (Appendix B, Table B-4).

Routine operation of the East WWTP continued during the monitoring period (July 5 - 11). Concrete contact water was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond each day during the monitoring period (July 5 - 11). Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-4).

From July 5 - 11, the West Sedimentation Pond received water from the 4100 Sump and recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system each day during the monitoring period (July 5 - 11) and recirculated back to the pond except on July 9 and 10. West Sedimentation Pond effluent was not discharged to Howe Sound during the monitoring period (July 5 - 11). A total of 144 m³ of clarified effluent was reclaimed for construction use during the monitoring period (July 5 - 11). Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond or reclaimed for construction use are provided in Appendix C (Table C-6).

2. Monitoring Summary

The locations of PE-111578 monitoring stations are shown on Figure 1. Monitoring is conducted by the on-site Environmental Monitors (Roe Environmental). Analytical samples are submitted by Roe Environmental to ALS Environmental in Burnaby, BC for testing.

The following PE-111578 and supplementary monitoring stations are currently being monitored:

- Non-contact diversion ditch outlet monitoring stations (OUT-01, OUT-02 and OUT-06).
- Creek water monitoring stations for Woodfibre, Mill and East Creek (SW-01, SW-02, SW-03, SW-04, SW-07).
- Contact water monitoring locations (SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and 2700GPM-OUT).
- Supplementary contact water stations at the outlet of each sampling train. These samples are identified as W2700T#-OUT (with # equal to the train number).
- Effluent compliance stations (SP-E-OUT and SP-W-OUT). As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. From late September to early December 2025, SP-W-OUT was sampled from the discharge manhole. From December 1 to 8, a pipe manifold was installed that combines effluent from the individual trains into a single discharge line and is configured with a sampling port. Since December 8, samples have been collected at the sampling port or at the outfall.
- Howe Sound reference and IDZ monitoring stations (WQR1, WQR2, IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2).

The diversion ditch outlet at Outfall 11 (OUT-11) does not receive water and will not be monitored until it is operational.

The influent culverts for East and West Sedimentation Ponds are not operational and the associated influent stations defined in PE-111578 (SP-E-IN-1, SP-E-IN-2, SP-W-IN-1 and SP-W-IN-2) have been replaced with temporary influent monitoring stations SP-E-IN and SP-W-IN (East and West Sedimentation Pond, respectively) located in-pond, at the influent end of each pond.

A flocculant-based TSS settling system (2700GPM) is used at the West Sedimentation Pond as described in Section 1.1. Influent and effluent are monitored at stations 2700GPM-IN and 2700GPM-OUT, respectively. The 2700GPM-OUT station represents the combined discharge line from all six individual treatment trains when clarified effluent is directed to the West Sedimentation Pond and is equivalent to the SP-W-OUT station. At times when only one 2700GPM treatment train is operated, the 2700GPM-OUT sample may be collected at the outlet of that train. Monitoring of the individual 2700GPM settling system treatment trains is supplemental to the PE-111578 monitoring requirements and is conducted at the discretion of field staff.

Water quality was monitored at stations IDZ-E1, IDZ-E2, WQR1, SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and W2700T1-OUT during the monitoring period (July 5 - 11). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (July 5 - 11) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation ponds, WWTP and IDZ stations have been met. On June 25, 2025, BCER approved the implementation of low-frequency (*i.e.*, bi-monthly and monthly) monitoring requirements specified in PE-111578 for all parameters, except for metals, hexavalent chromium, and methylmercury, which continue to be monitored weekly at sedimentation pond and WWTP stations.

Daily field parameters and a weekly analytical sample were not collected at the east and west catchment effluent compliance stations (SP-E-OUT and SP-W-OUT, respectively) as there was no discharge to Howe Sound from the East and West Sedimentation Ponds during the monitoring period (July 5 - 11). Daily field parameters were not collected at the influent and effluent stations of the East WWTP (WWTP-E-IN and WWTP-E-OUT, respectively) on July 8 as it was not operational at the time of monitoring. Daily field parameters and a weekly analytical sample were not collected at the influent and effluent stations of the West WWTP (WWTP-W-IN and WWTP-W-OUT, respectively) as it was not operational during the monitoring period (July 5 - 11).

Table 2:
Summary of PE-111578 Monitoring Samples Collected July 5 - 11.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
July 5, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
July 6, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
July 7, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
July 8, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
July 9, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field & Physical Parameters, Total, Dissolved and Speciated Metals.	P
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M
	IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
	IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
	IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
	IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
	IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
	WQR1-0.5	Reference site 1; 0.5 m below surface		
	WQR1-2m	Reference site 1; 2 m below surface		
	WQR1-SF	Reference site 1; 2 m above the seafloor		
July 10, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M ₂ , W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M ₂ , W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
July 11, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M ₂ , W
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
	W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		

Notes:
Monitoring frequency requirements under PE-111578 are indicated as follows:
D – daily monitoring of field parameters at WWTP and sedimentation pond influent and effluent stations.
M – monthly monitoring for all parameters at WWTP, sedimentation pond and receiving environment stations. Monthly monitoring for General parameters, except ammonia, nitrate and nitrite (*i.e.*, nitrogen species) are monitored weekly during blasting season.
M₂ – bi-monthly monitoring for physical parameters at WWTP and sedimentation pond stations.
M₅ – spring high-frequency (5-in-30) sampling for receiving environment stations.
W – weekly monitoring for metals, chromium speciation and methylmercury at WWTP and sedimentation pond influent and effluent stations, effective June 25, 2025.
P – periodic monitoring for targeted parameters that is supplementary to PE-111578 requirements.

3. Water Quality Results

3.1 Summary of Reported Results

Analytical results and associated field measurements included in this weekly report (Report #122) are listed below in Table 3, with additional field measurements presented in Table B-3 (Appendix B) and Table C-5 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- WWTP-E-OUT collected May 25 (acute toxicity);
- W2700T2-OUT collected May 25 (acute toxicity);
- IDZ-E1, IDZ-E2 and WQR1 collected May 26 (chronic toxicity);
- IDZ-W1, IDZ-W2 and WQR2 collected May 26 (chronic toxicity);
- SP-W-IN, 2700GPM-IN, and W2700T1-OUT collected June 14 (dioxins and furans);
- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1, and WQR2 collected June 15 (chronic toxicity);
- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected June 16 (total mercury and methylmercury);
- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected June 25 (total mercury and methylmercury);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected July 2 (total mercury, methylmercury, dioxins and furans);
- COMB-WWTP-E-IN collected July 2 (total mercury and methylmercury);
- SW-02, SW-03 and SW-07 collected July 2 (field and all analytical parameters);
- SP-W-IN, 2700GPM-IN and W2700T1-OUT collected July 3 (total mercury, methylmercury, dioxins and furans);
- W2700T3-OUT and W2700T4-OUT collected July 3 (total mercury and methylmercury);
- SW-01 and SW-04 collected July 3 (field and all analytical parameters);
- IDZ-E1, IDZ-E2 and WQR1 collected July 9 (field measurements and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected July 10 (all analytical parameters);
- SP-W-IN, 2700GPM-IN, W2700T1-OUT and W2700T4-OUT collected July 11 (all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #122.

Sample	Description	Sampling Date	Parameters Reported
IDZ-E-SED	East catchment IDZ sediment samples	May 17, 2026	Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, VOCs, Methylmercury, Dioxins and Furans.
SED-L			
SED-N			
IDZ-W-SED	West catchment IDZ sediment samples	May 19, 2026	
SED-F			
SED-G			
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	June 15, 2026	Total Mercury, Methylmercury, Dioxins and Furans.
IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
WQR2-0.5	Reference site 2; 0.5 m below surface		
WQR2-2m	Reference site 2; 2 m below surface		
WQR2-SF	Reference site 2; 2 m above the seafloor		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	June 22, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, Total Mercury, and Methylmercury.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	July 2, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, VOCs.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
COMB-WWTP-E-IN	Combined East WWTP influent from the concrete contact water treatment stream and the East Sedimentation Pond, collected from the heated frac tank		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium.
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	July 3, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, VOCs.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium.
W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	July 9, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium.

3.2 Screening and Reporting Overview

Water quality and flow monitoring results are screened against operational minimum discharge objectives (MDOs) for the East WWTP, and PE-111578 discharge limits for sedimentation pond and 2700GPM TSS settling system stations. The East WWTP MDOs were set equal to Canadian Council of Ministers of the Environment (CCME) water quality guidelines (WQGs) and the PE-111578 discharge limits. Contact and non-contact water monitoring results are also screened against Canadian (Canadian Council of Ministers of the Environment, CCME), Federal (Environment and Climate Change Canada, ECCC) and BC water quality guidelines (WQGs). All water quality data are recorded in the Woodfibre LNG environmental monitoring database. However, for brevity, a sub-set of the results are presented in the weekly report appendices. Results are reported for parameters with a freshwater, estuarine or marine water quality guideline for the protection of aquatic life, parameters with a discharge limit, parameters of potential concern (*i.e.*, dioxins and furans) as well as other parameters that are relevant for water quality interpretation.

It is expected that samples of contact water and samples collected within the IDZ (*i.e.*, mixing zone) defined in PE-111578 for the authorized discharge locations may have parameter concentrations above baseline or background (*i.e.*, reference station) concentrations due to project influence. As well, for receiving environment samples, parameter concentrations above a WQG value but within the range of values observed in the baseline monitoring program are considered to represent the background conditions of the water.

The values used for screening are listed in the water quality tables provided in the appendices. Results above a screening value are highlighted in the tables. Samples collected from sedimentation pond effluent that is discharged to Howe Sound (monitored at stations SP-E-OUT and SP-W-OUT) are evaluated for non-compliance to PE-111578 discharge limits. Exceedances in contact water that remains on-site and is not discharged (*e.g.*, WWTP influent and effluent, sedimentation pond influent, TSS settling system influent, and TSS settling system effluent that is recirculated) are screened for comparison purposes only, and exceedances in these samples do not represent non-compliance to the PE-111578 conditions.

Canadian, Federal and BC WQGs are not specified for dioxins and furans. The general term “dioxins and furans” refers to a total of 210 polychlorinated dibenzo-*p*-dioxin (PCDD) and polychlorinated dibenzofuran (PCDF) compounds. A sub-set of 17 of the most toxic PCDDs and PCDFs are typically evaluated for toxicity by converting the individual parameter concentrations to toxic equivalent (TEQ) values that are summed and evaluated as a single PCDD/F TEQ parameter. To address uncertainties for results reported as not detected, two PCDD/F TEQ values are reported. A “lower-bound PCDD/F TEQ” is calculated assuming a concentration of zero for results reported as not detected, therefore, if all 17 of the individual compounds in the sub-set are

not detected the lower-bound PCDD/F TEQ will equal zero. An “upper-bound PCDD/F TEQ” is calculated assuming a concentration equal to the detection limit for results reported as not detected. These two parameters span the range of possible TEQs if one or more of the PCDDs and PCDFs are reported as not detected.

The BC WQG for total mercury is a sample-specific calculated value that is based on the concentration of methylmercury in a sample. Although an approved BC WQG for the protection of aquatic life for methylmercury has not been explicitly established, the BC Ambient Water Quality Guidelines for Mercury Overview Report indicates the total mercury WQG is derived from a methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) that is set at a concentration that protects fish from mercury bioaccumulation to levels that could harm wildlife that consumes fish. Therefore, if methylmercury results are reported, the 0.0001 µg/L value is presented as a WQG to support the interpretation of methylmercury results.

A summary of reported and pending results is provided in Section 3.1. Results for effluents from East WWTP, 2700GPM TSS settling system, and East and West Sedimentation Ponds are discussed in Section 3.3 and Section 3.4, respectively. The water quality monitored at non-contact water diversion ditch outlets and in the receiving environment is described in Section 3.5 to Section 3.7. Sediment samples are collected annually at stations IDZ-E-SED and IDZ-W-SED and are discussed in Section 3.7 when they are reported.

3.3 East Catchment

The east catchment water quality and flow monitoring results for stations at the East WWTP, the East Sedimentation Pond, and the authorized discharge location (SP-E-OUT) are discussed in this section and are tabulated in Appendix B.

Results are presented for field measurements of influent quality for the East Sedimentation Pond and East WWTP influent and effluent quality collected July 5 - 11 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT) as well as analytical results for samples collected July 2 (stations SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT; as discussed in Report #121) and July 9 (station SP-E-IN) (Appendix B, Table B-1 through Table B-3).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected July 5 - 11 met MDOs except for dissolved oxygen (Appendix B, Table B-3). Nitrate and hexavalent chromium were above MDOs in the WWTP-E-OUT analytical sample collected July 2. The depletion of dissolved oxygen was also observed in contact water during dry conditions in 2024 and 2025 and is speculated to be induced by warm temperatures and limited freshwater inputs (*i.e.*, from rain) to the contact water management system during dry conditions. Nitrate and metal parameters above MDOs are tracked in Table 4.

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from July 5 - 11 (Section 1.2; Table B-4 of Appendix B). Hence, water quality samples and field measurements were not collected at the SP-E-OUT discharge location during the monitoring period.

3.4 West Catchment

The west catchment water quality monitoring results for stations at the West Sedimentation Pond, the 2700GPM TSS settling system, and the authorized discharge location (SP-W-OUT) are discussed in this section and are tabulated in Appendix C. Operation of the West WWTP is suspended (refer to Section 1.1) and monitoring results are therefore not available for the stations at this facility.

As discussed in Section 1.2, clarified sedimentation pond effluent from the 2700GPM TSS Settling System was recirculated to the West Sedimentation Pond and did not discharge to Howe Sound from SP-W-OUT during the monitoring period (July 5 - 11). Therefore, water quality samples and field measurements were not collected at the SP-W-OUT discharge location.

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected July 5 - 11 as well as analytical results for samples collected June 22 (stations SP-W-IN, 2700GPM-IN and W2700T1-OUT, as discussed in Report #120) and July 3 (stations SP-W-IN, 2700GPM-IN, W2700T1-OUT, W2700T3-OUT and W2700T4-OUT, as discussed in Report #121) (Appendix C, Table C-1 through Table C-5).

3.5 Non-Contact Water Diversion Ditch Outlets

There are no outstanding analytical results for non-contact water diversion ditch outlets.

3.6 Freshwater and Estuarine Water Receiving Environment

Analytical results were not available at the time of reporting for freshwater and estuarine water receiving environment stations.

3.7 Marine Receiving Environment

3.7.1 Marine Water Quality

Methylmercury analytical results were available at the time of reporting for all marine water samples collected June 15 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Report #119. For all samples, methylmercury concentrations ranged from <0.000020 to 0.000048 µg/L and met

the WQG. The corresponding total mercury results met WQGs. Results are tabulated in Appendix D, Table D-1.

Dioxin and furans results were available at the time of reporting for marine samples collected at 0.5 and 2 m below the water surface and 2 m above the seafloor on June 15 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Report #119. For all samples, the lower bound PCDD/F TEQ concentrations ranged from 0 to 0.0551 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 0.744 to 3.62 pg/L. The lower and upper bound PCDD/F TEQ concentrations were within the concentration ranges observed in the pre-construction baseline monitoring program (0 to 2.64 pg/L and 0 to 7.06 pg/L, respectively) and within background ranges observed at marine reference stations (0 to 0.941 pg/L and 0.499 to 5.65 pg/L, respectively). Results are tabulated in Appendix D, Table D-2.

3.7.2 Marine Sediment Quality

Annual monitoring of marine sediment collected within the IDZ was conducted in May 2026. Sediment quality was screened against BC Contaminated Sites Regulation (CSR) Schedule 3.4 generic numerical marine and estuarine sediment standard for sensitive use, CCME interim sediment quality guidelines (ISQG) and probable effects levels (PEL), as well as the BC lower and upper working sediment quality guidelines for the protection of benthic aquatic life in marine environments. Parameter concentrations above a reference value and outside the upper range of values observed in the 2023 IDZ baseline study were evaluated for project influence.

Analytical results are presented in Appendix D, Table D-3. Although they have been screened against BC and CCME reference values, for consistency the following discussion only describes the screening results for the CCME reference values as these are generally similar to BC values and have reference values for dioxins and furans.

During baseline monitoring in 2023, variability was observed in the dioxin and furan PCDD/F TEQ results. Pronounced variability was noted for the west IDZ duplicate samples collected at station IDZ-W-SED in 2024; and it was speculated the PCDD/F TEQ results reflected heterogeneous distribution of dioxins and furans in marine sediments rather than influence from construction contact water effluent. To further characterize the distribution of dioxins, furans and other parameters in the sediments within the east and west IDZs, the 2025 and 2026 sediment monitoring included replicate samples (*i.e.*, triplicates) collected at the IDZ sediment stations listed in PE-111578, and supplemental samples collected at stations within the IDZs that were monitored during the IDZ baseline study in 2023.

On May 17 and 19, 2026, marine sediments were collected by the on-site environmental monitor (Roe Environmental) at the east and west IDZ sediment stations (IDZ-E-SED and IDZ-W-SED, respectively) as well as at the 2023 baseline monitoring locations in the east IDZ (stations SED-L

and SED-N) and the west IDZ (SED-F, SED-G). Samples were collected in triplicate at the IDZ-E-SED and IDZ-W-SED stations. The station locations are shown in Figure 6. Surface grab samples were collected at each station using a Petite Ponar grab sampler, and multiple grabs were collected for each sample to obtain the volume of sediment required for analytical testing. Replicate samples were collected sequentially from fresh grabs. The marine vessel used for monitoring was repositioned as needed while sampling at each station to counter drift induced by wind and ocean currents.

Field observations of the individual sediment grabs indicate the IDZ sediments are heterogenous, with a large variation in grain size and composition. Grabs frequently contained woody debris in the east and west IDZ. An oily sheen and creosote were observed in a grab sample from station IDZ-W-SED. These observed variation of material composition and grain sizes would likely contribute to the variability of analytical results between samples. Contaminated site investigations and remediation of sediments conducted prior construction of the Woodfibre LNG facility determined that woody debris, creosote and other contaminants in the vicinity of the IDZ sediments are associated with the historic pulp mill operations.

Concentrations of several total metals (arsenic, copper, lead, mercury and zinc) were above the corresponding CCME ISQG and PEL, by up to 6.0 times and 1.0 times respectively. Of the metal parameters, concentrations of copper most frequently exceeded the guideline with the highest values observed at the west IDZ stations.

Concentrations of PAHs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, 2-methylnaphthalene, naphthalene, phenanthrene and pyrene) in the samples collected from the east and west IDZ areas and baseline stations were up to 135 and 10 times, respectively, above the corresponding CCME ISQG and PEL reference values. Field records indicate that creosote, which contains PAHs, was observed at the time of sampling in one of the IDZ-W-SED samples with elevated PAHs. The PAH concentrations were generally higher at the west IDZ stations compared to stations in the east IDZ. Notable variation was observed in the PAH concentrations between the three replicate samples collected from the IDZ-W-SED station, as represented by the results for acenaphthene which ranged from 14 to 135 times the CCME ISQG value. This observation indicates PAHs are heterogeneously (*i.e.*, unevenly) distributed in the IDZ sediments.

Concentrations of polychlorinated biphenyl (PCB) aroclor 1254 were below detection limits in all of the marine sediment samples; however, the reported detection limits for west IDZ samples were up to 2.7 times greater than the CCME ISQG value.

The total PCB parameter is the sum of the results for the individual PCB aroclors, and total PCB was reported to be not detected in all samples; however, the reported detection limits were up to 91 and 11 times greater than the CCME ISQG and PEL values, respectively.

For dioxins and furans, the lower-bound and upper-bound PCDD/F TEQ concentrations in all samples were up to 25 and 27 times, respectively, greater than the CCME ISQG value, and up to 1.0 and 1.1 times, respectively, greater than the CCME PEL value. There is substantial variation in the replicate samples collected at IDZ-W-SED station with the lower-bound and upper-bound PCDD/F TEQ results ranging from 11 to 26 times the CCME ISQG values, indicating uneven distribution of dioxins and furans in the west IDZ sediments.

The concentrations of parameters that exceed CCME reference values at the east and west IDZ sediment stations were within the upper ranges observed during baseline sediment monitoring, except PAHs (acenaphthene, fluorene, and 2-methylnaphthalene) which were 1.4 to 1.6 times greater than the maximum values observed during baseline monitoring. The PCB parameters (Aroclor 1254 and total PCB) were not detectable, however the highest detection limit values for these parameters were 7.8 and 30 times greater, respectively, than the maximum detection limit values observed during baseline monitoring.

The replicate samples indicate there is heterogeneous distribution of PAHs in the IDZ sediments, in particular in the west IDZ where almost all the elevated parameter concentrations were observed. The high variability of the replicate samples from the IDZ-W-SED station (compared to IDZ-E-SED station) indicates that PAH parameters present at elevated concentrations (*i.e.*, above the ranges from the 2023 IDZ sediment baseline) are heterogeneously distributed in the IDZ sediments, in particular in the west IDZ. Observations during site investigation and remediation conducted prior to construction of the LNG facility suggest the heterogeneous distribution of sediment grain size and material composition, as well as parameters present at elevated concentrations, are due to influence from the historic pulp mill activities. The construction effluent discharged to Howe Sound is clarified water that generally meets WQGs and discharge limits and is not a significant source of the parameters that exceeded the CCME reference values. Therefore, the results are not considered to represent influence from construction contact water that has been intermittently discharged to Howe Sound since April 2024.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (Table 4). The evaluation includes a review of field and lab QC, completeness of the weekly report (*e.g.*, pending data), completeness of the monitoring program, confirmation of record keeping, evaluation of compliance and review of water management activities. Items flagged for follow-up in Section 3 are also tracked in Table 4. Any items flagged for follow-up are carried forward to future reports until they are closed.

Table 4:
Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (July 5 - 11, Report #122)		
Authorized Works and Monitoring Program Evaluation	The authorized works and monitoring stations have not been established as described in PE-111578.	The PE-111578 authorized works for water management have been constructed, except for some of the conveyance ditches, which require completion of site grading prior to installation. Sumps, pumps and hoses are used for temporary conveyance until the ditches are completed. Outfall 11 (OUT-11) has been constructed but is currently not in use. This item remains open.
Report #122: Pending Data	Analytical results not reported.	Field measurements and analytical results for receiving environment samples collected July 9 as well as analytical results for contact and treated water samples collected July 10 and 11 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #112: WWTP Performance Evaluation	Total mercury and methylmercury above the MDO.	This item was first noted in Report #112. The total mercury and methylmercury concentrations in the samples collected at WWTP-E-OUT from April 15 through June 8 were above the MDOs. Increased incidence of total mercury and methylmercury concentrations above the MDOs in site contact waters occurred in late April 2025 through September 2025, coinciding with warmer and drier weather relative to winter months. In 2025, possible project related sources had been evaluated, and upstream contact water monitoring data indicate methylmercury was elevated in the Hydrovac sump. Excess water from this sump is directed to the East WWTP. This production of methylmercury is attributed to microbially mediated methylation of total mercury in the bottom sediments of water management sumps, and transfer from the sump sediments to the water column. Enhanced monitoring for methylmercury was implemented in May 2026. This item remains open.
Report #115: Pending Data	Analytical results not reported.	Previously pending marine sediment samples collected May 17 and 18 are included in Report #122. This item is closed.
Report #116: Pending Data	Analytical results not reported.	Acute toxicity and chronic toxicity results for samples collected May 25 and 26, respectively, are pending and will be included in future weekly reports when available. This item remains open.
Report #116: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	This item was first noted in Report #116. Hexavalent chromium concentrations in the samples collected at WWTP-E-OUT on May 21, June 16, 25 and July 2 were above the MDO (0.0015 mg/L). Hexavalent chromium concentrations met the MDO in the WWTP-E-OUT samples collected May 25, June 3, and June 8. The WWTP treatment performance for hexavalent chromium will be evaluated through the end of July 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #118: WWTP Performance Evaluation	Nitrate above the MDO.	This item was first noted in Report #118. Nitrate was above the MDO in the WWTP-E-OUT samples collected June 3, 8, 16, 25 and July 2. East Sedimentation Pond and East WWTP influent samples collected at SP-E-IN and WWTP-E-IN, respectively, on these days also had elevated concentrations of nitrate. As of early July, an ongoing source of nitrate has not been identified. Concrete accelerants contain nitrate, and it is possible the nitrate originated from the use of accelerant during placement of concrete. The concentration of nitrate in the East and West Sedimentation Ponds is trending lower. Therefore, it is speculated the input of nitrate to the East Sedimentation Pond detected early June is a singular event that is not on-going. This item remains open.
Report #119: Pending Data	Analytical results not reported.	Previously pending total mercury, methylmercury, dioxins and furans results for receiving environment samples collected June 15 are included in Report #122. Dioxins and furans results for contact and treated water samples collected June 14, chronic toxicity results for receiving environment samples collected June 15, and total mercury and methylmercury results for contact and treated water samples collected June 16 are pending and will be included in future weekly reports when available. This item remains open.
Report #120: Pending Data	Analytical results not reported.	Previously pending analytical results for contact and treated water samples collected June 22 are included in Report #122. Total mercury and methylmercury results for contact and treated water samples collected June 25 are pending and will be included in future weekly reports when available. This item remains open.
Report #121: Pending Data	Analytical results not reported.	Previously pending analytical results for contact and treated water samples collected July 2 and 3 are included in Report #122. Field parameters and analytical results for receiving environment samples collected July 2 and 3 as well as total mercury, methylmercury, dioxins and furans results for contact and treated water samples collected July 2 and 3 are pending and will be included in future weekly reports when available. This item remains open.

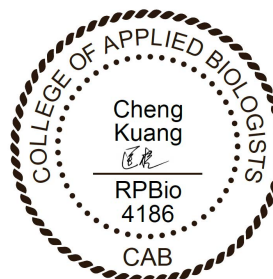
Notes:
Result QA/QC screening includes the evaluation of field and lab QC results, comparison of total and dissolved metal results and review for modified detection limits.
Pending data are outstanding results from monitoring samples reported in the current or previous weekly reports.
Authorized works and monitoring program evaluation is an assessment of the completeness of the authorized works and monitoring program compared to PE-111578 specified or implied requirements.
WWTP performance evaluation is an assessment of WWTP effluent quality compared to operational MDOs.
Data QC indicates an evaluation of data trends or inter-parameter relationships that suggest a test result may not be representative of water quality at the time of monitoring.
Non-compliant discharge indicates exceedance of a discharge limit or a discharge that bypasses the sedimentation pond discharge location.
Potential project influence is an assessment that water quality at creek and Howe Sound baseline stations are above the baseline concentration range and may indicate project influence at these stations.

4. Closure

This weekly report is a desktop review by Lorax of the PE-111578 discharge and compliance monitoring program records, reports and results provided by Woodfibre LNG and prime contractor McDermott International and their sub-contractors. The records reviewed and analyzed by Lorax include ALS Environmental laboratory test reports and site reports (from Roe Environmental, LB LNG, McDermott and Woodfibre LNG). Verbal or electronic communications between Lorax, and Roe Environmental, LB LNG, McDermott, and Woodfibre LNG staff are conducted as needed to confirm the information presented in this report.

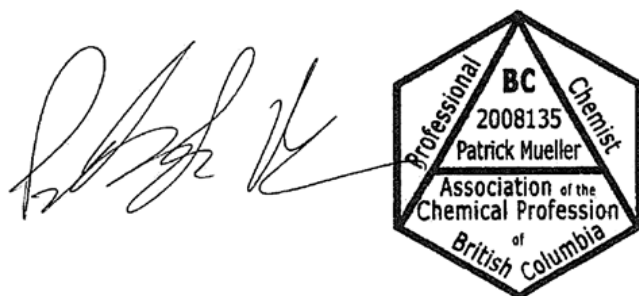
Regards,

LORAX ENVIRONMENTAL SERVICES LTD.



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Lorax Environmental Services Ltd. EGBC Permit to Practice Number: 1001840

Appendix A: Figures and Site Images



LEGEND

- Freshwater Monitoring Station
- Marine Water Monitoring Station
- Clean Water Diversion Discharge Station
- Sedimentation Pond Monitoring Stations (Water Quality)
- Wastewater Treatment Plant (WWTP)
- Certified Project Area
- Watercourse
- Non-Contact Ditch
- Culvert / Outfall / Pipeline
- Non-Contact Water Transfer Hose
- Bathymetry Contour (Major: 50m)
- Bathymetry Contour (Minor: 10m)

DATE SAVED: Jul 17, 2026
DRAWN BY: DM
REVIEWED: PM
VERSION: 1

Coordinate System: NAD 1983 UTM Zone 10N
Projection: Transverse Mercator
Datum: North American 1983
Units: Metre
Scale: 1:6,000



PROJECT: Woodfibre LNG Project Construction Phase
TITLE: Site Layout and Water Quality Monitoring Stations for PE-111578 (July 11, 2026)
PROJECT #: A825-1
FIGURE: 1

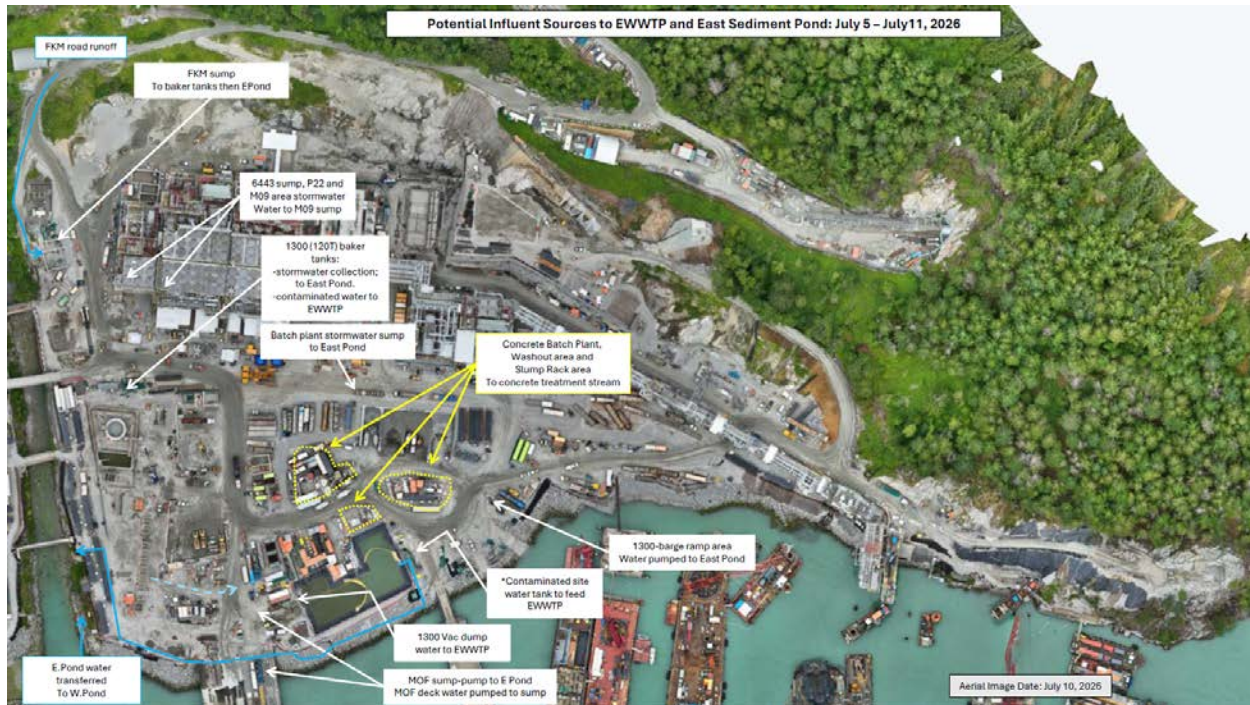


Figure 2: East Catchment contact water management facilities (July 5 - 11).

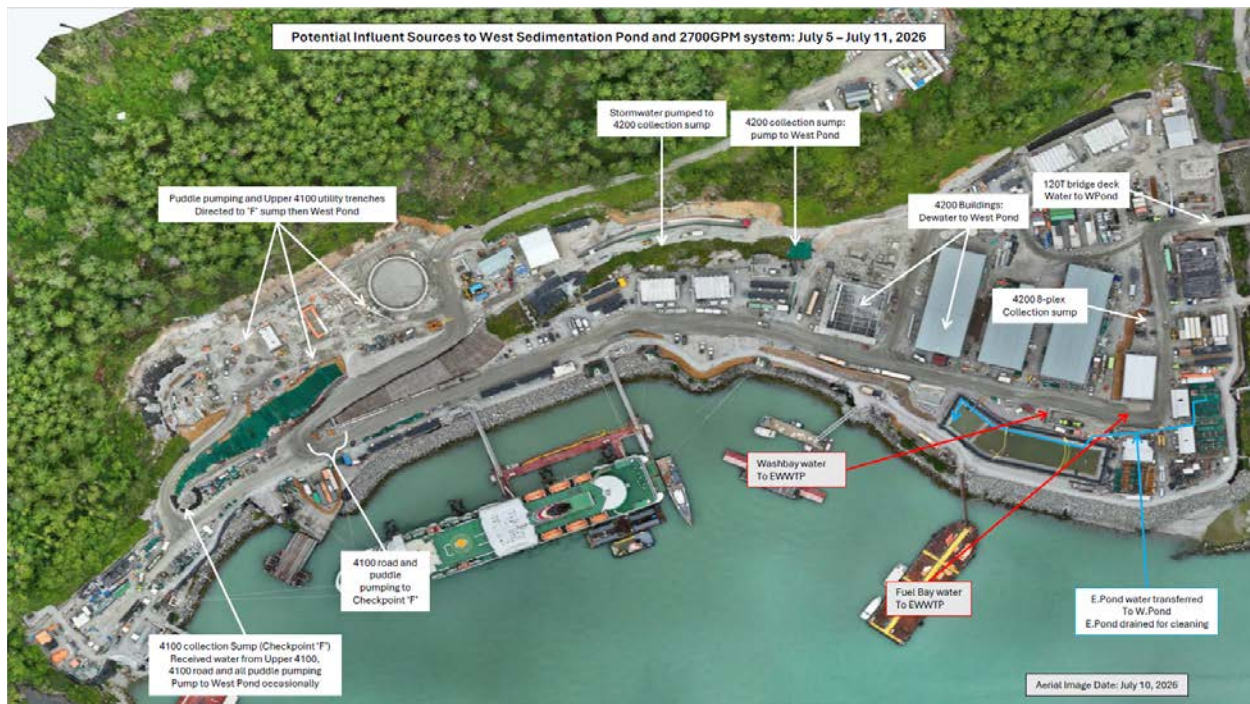


Figure 3: West Catchment contact water management facilities (July 5 - 11).



Figure 4: Aerial view of the East Sedimentation Pond (July 10, 2026). The East WWTP is located on the left side of the pond.



Figure 5: Aerial view of the West Sedimentation Pond (July 10, 2026).



World Imagery: District of Squamish. Additional imagery provided by McDermott International captured April 4, 2026.

482,000

482,000

LEGEND

- ▲ Sediment Pond Outfall
- Annual IDZ Sampling Station
- 2023 Baseline Station
- Certified Project Area
- Bathymetry Contour (Major: 50m)
- Bathymetry Contour (Minor: 10m)

Coordinate System: NAD 1983 UTM Zone 10N
Projection: Transverse Mercator
Datum: North American 1983
Units: Metres

1:3,000



DATE SAVED: Jul 17, 2026
DRAWN BY: DM
REVIEWED: PM
VERSION: 1

CLIENT:



PROJECT:

Woodfibre LNG Project
Construction Phase

TITLE:

WDA Sediment Sampling

PROJECT #:

A825-1

FIGURE:

6

Station ID	Latitude (°)	Longitude (°)
East Sedimentation Pond IDZ		
IDZ-E-SED	49.667433	-123.24830
SED-E	49.667539	-123.24832
SED-K	49.667437	-123.24831
SED-L	49.667426	-123.24816
SED-M	49.667259	-123.24872
SED-N	49.667282	-123.24836
West Sedimentation Pond IDZ		
IDZ-W-SED	49.664250	-123.25358
SED-F	49.664214	-123.25378
SED-G	49.664357	-123.25332
SED-H	49.664343	-123.25395
SED-I	49.664357	-123.25367
SED-J	49.664307	-123.25349

Appendix B:
East Catchment Monitoring Results

Table B-1:
East WWTP Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station WWTP-E-IN	Station COMB-WWTP-E-IN	Station WWTP-E-OUT
					Influent	Influent	Effluent
					WWTP-E-IN	COMB-WWTP-E-IN	WWTP-E-OUT
		VA26B7329-002	VA26B7329-005		VA26B7329-008		
		Long Term	Short Term		2026-07-02 9:20	2026-07-02 10:48	2026-07-02 14:18
General Parameters							
pH - Field	pH units	- ²	-	5.5 - 9.0	7.9	6.5	6.8
Specific Conductivity - Field	µS/cm	-	-	-	1477	-	1465
Temperature - Field	°C	-	-	-	18.9	-	18.1
Salinity - Field	ppt	-	-	-	0.74	-	0.74
Turbidity - Field	NTU	-	-	-	11.95	14	0.99
TSS	mg/L	-	-	25 or 75 ⁵	4.8	11.8	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.56	-	9.42
Total Hardness	mg/L	-	-	-	31.8	200	21.8
Dissolved Hardness	mg/L	-	-	-	30.2	256	21.3
Anions and Nutrients							
Sulphate	mg/L	-	-	-	287	529	305
Chloride	mg/L	-	-	-	27.4	25.3	28.8
Fluoride	mg/L	-	1.5	-	0.64	0.679	0.564
Ammonia (N-NH ₃)	mg/L	2.2-14 ³	15-92 ³	-	0.012	0.0184	0.0187
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0483	0.325	0.0112
Nitrate (N-NO ₃)	mg/L	3.7	339	-	<u>6.40</u>	<u>6.02</u>	<u>5.20</u>
Total Organic Carbon (TOC)	mg/L	-	-	-	2.62	6.18	1.85
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.12	5.15	1.55
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	0.802	0.594	0.0228
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00128	0.00107	0.00109
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00138	0.00118	0.00097
Barium, total (T-Ba)	mg/L	-	-	-	0.0141	0.0731	0.0025
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040	<0.000040	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.23	0.222	0.235
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000400	<0.0000400	<0.0000350
Chromium, total (T-Cr)	mg/L	-	-	-	0.00507	0.0543	0.0102
Cobalt, total (T-Co)	mg/L	-	-	-	0.00031	0.00038	<0.00020
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00447	0.00251	0.00124
Iron, total (T-Fe)	mg/L	-	-	-	0.557	0.989	<0.020
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000611	0.000416	<0.000100
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0332	0.0548	0.0022
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.219	0.376	0.224
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	<0.00100	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000563	<u>0.00236</u>	0.000842
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020	<0.000020	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	<0.000020	<0.000020	<0.000020
Uranium, total (T-U)	mg/L	-	-	-	0.0926	0.0729	0.0788
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00357	0.00318	0.00182
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0086	<0.0060	<0.0060
Hexavalent Chromium, total	mg/L	0.0015	-	-	<u>0.00461</u>	<u>0.0443</u>	<u>0.0102</u>
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000900	<0.000165	<0.000108
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.001	0.00154	0.00099
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.020	<0.020	<0.020
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100	<0.000100	<0.000100
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0106	0.0338	0.00184
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00100	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.129	1.3	0.128
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00252	0.00128	0.0016
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0020	<0.0020	<0.0020
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	<0.000010	-	<0.000010
Acridine	mg/L	-	-	-	<0.000010	-	<0.000010
Anthracene	mg/L	-	-	-	<0.000010	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	<0.000010	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	<0.000010	-	<0.000010
Fluoranthene	mg/L	-	-	-	<0.000010	-	<0.000010
Fluorene	mg/L	0.012	-	-	<0.000010	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050	-	<0.000050
Phenanthrene	mg/L	-	-	-	<0.000020	-	<0.000020
Pyrene	mg/L	-	-	-	<0.000010	-	<0.000010
Quinoline	mg/L	-	-	-	<0.000050	-	<0.000050
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.59	6.0	-	<0.00050	-	<0.00050
Ethylbenzene	mg/L	0.07	1.0	-	<0.00050	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	-	<0.00050
Styrene	mg/L	-	-	-	<0.00050	-	<0.00050
Toluene	mg/L	0.03	3.0	-	<0.00040	-	<0.00040
Total Xylenes	mg/L	0.07	1.0	-	<0.00050	-	<0.00050
Chlorobenzene	mg/L	0.025	-	-	<0.00050	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	-	<0.00050

Notes:
East catchment influents and East WWTP effluent were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.
The East Catchment did not discharge during the monitoring period (July 5 - 11).
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
² The WQG was not evaluated for parameters with discharge limits.
³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-2:
East Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station SP-E-IN	Station SP-E-IN
					Influent	Influent
					SP-E-IN	SP-E-IN
		VA26B7329-001 2026-07-02 9:04	VA26B8115-001 2026-07-09 12:46			
General Parameters						
pH - Field	pH units	- ²	-	5.5 - 9.0	7.5	8.2
Specific Conductivity - Field	µS/cm	-	-	-	1432	2328
Temperature - Field	°C	-	-	-	18.5	24.7
Salinity - Field	ppt	-	-	-	0.72	1.19
Turbidity - Field	NTU	-	-	-	7.38	4.33
TSS	mg/L	-	-	25 or 75 ⁵	3.2	25.8
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.46	11.4
Total Hardness	mg/L	-	-	-	30	32.1
Dissolved Hardness	mg/L	-	-	-	28.9	29.7
Anions and Nutrients						
Sulphate	mg/L	-	-	-	270	-
Chloride	mg/L	-	-	-	27.9	-
Fluoride	mg/L	-	1.5	-	0.643	-
Ammonia (N-NH ₃)	mg/L	0.62-5.3 ³	4.2-35 ³	-	0.0176	-
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0397	-
Nitrate (N-NO ₃)	mg/L	3.7	339	-	5.93	-
Total Organic Carbon (TOC)	mg/L	-	-	-	2.34	-
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.16	-
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.416	0.314
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00128	0.00134
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00142	0.00143
Barium, total (T-Ba)	mg/L	-	-	-	0.00937	0.0104
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.235	0.245
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000250	<0.0000900
Chromium, total (T-Cr)	mg/L	-	-	-	0.00422	0.00331
Cobalt, total (T-Co)	mg/L	-	-	-	0.00023	<0.00020
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.0013	0.00146
Iron, total (T-Fe)	mg/L	-	-	-	0.26	0.158
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000263	0.000287
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0339	0.0833
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.205	0.242
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000535	0.000678
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	<0.000020	<0.000020
Uranium, total (T-U)	mg/L	-	-	-	0.0933	0.105
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.003	0.00287
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0060	0.0099
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00424	0.00326
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000800	<0.0000750
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00074	0.00106
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.020	0.016
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0196	0.0082
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.124	0.155
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00246	0.00247
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0020	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	<0.000010	-
Acridine	mg/L	-	-	-	<0.000010	-
Anthracene	mg/L	-	-	-	<0.000010	-
Benz(a)anthracene	mg/L	-	-	-	<0.000010	-
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050	-
Chrysene	mg/L	0.0001	-	-	<0.000010	-
Fluoranthene	mg/L	-	-	-	<0.000010	-
Fluorene	mg/L	0.012	-	-	<0.000010	-
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-
Naphthalene	mg/L	0.001	-	-	<0.000050	-
Phenanthrene	mg/L	-	-	-	<0.000020	-
Pyrene	mg/L	-	-	-	<0.000010	-
Quinoline	mg/L	-	-	-	<0.000050	-
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	<0.00050	-
Ethylbenzene	mg/L	0.07	1.0	-	<0.00050	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	-
Styrene	mg/L	-	-	-	<0.00050	-
Toluene	mg/L	0.03	3.0	-	<0.00040	-
Total Xylenes	mg/L	0.07	1.0	-	<0.00050	-
Chlorobenzene	mg/L	0.025	-	-	<0.00050	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	-

Notes:
East catchment influents and East WWTP effluent were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceeded the PE-111578 East Sedimentation Pond Discharge Limit.
The East Catchment did not discharge during the monitoring period (July 5 - 11).
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
² The WQG was not evaluated for parameters with discharge limits.
³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-3:
East Catchment Field Measurements Collected During the Monitoring Period (July 5 - 11).

Parameter			Temperature	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS ³	pH	Specific Conductivity	Visibility of Sheen
Unit			°C	mg/L	ppt	NTU	mg/L	s.u.	µS/cm	
PE-111578 Discharge Limit			-	-	-	-	25 or 75 ⁶	5.5 - 9.0	-	-
Lowest Applicable Guideline ¹			-	≥8	-	-	- ²	- ²	-	-
Station ID	Water Type	Date								
Influent ⁴										
SP-E-IN	Influent	2026-07-05 14:34	23.1	9.43	1.16	6.19	7.6	7.3	2261	No
SP-E-IN	Influent	2026-07-06 13:45	23.8	9.62	1.31	9.41	10.0	7.7	2540	No
SP-E-IN	Influent	2026-07-07 9:38	22.9	9.38	1.19	4.59	6.4	7.3	2321	No
SP-E-IN	Influent	2026-07-08 16:07	25.6	12.04	1.19	3.87	5.9	7.9	2316	No
SP-E-IN	Influent	2026-07-09 12:46	24.7	11.4	1.19	4.33	6.2	8.2	2328	No
SP-E-IN	Influent	2026-07-10 8:24	22.8	9.44	1.2	3.22	5.4	8.1	2331	No
SP-E-IN	Influent	2026-07-11 11:11	21.9	8.41	1.56	3.26	5.4	7.2	2986	No
WWTP-E-IN	Influent	2026-07-05 14:19	22.5	10.11	0.97	13.11	12.8	7.7	1912	No
WWTP-E-IN	Influent	2026-07-06 13:51	23.5	9.97	1.16	11.44	11.5	7.6	2263	No
WWTP-E-IN	Influent	2026-07-07 9:47	23.4	9.93	1.21	7.67	8.7	7.7	2359	No
WWTP-E-IN	Influent	2026-07-09 16:02	24.9	11.10	1.22	6.89	8.1	8.2	2384	No
WWTP-E-IN	Influent	2026-07-10 8:53	23.4	9.95	1.24	5.23	6.9	8.3	2405	No
WWTP-E-IN	Influent	2026-07-11 11:03	21.8	9.71	1.23	6.16	7.6	8.2	2388	No
Effluent ⁵										
WWTP-E-OUT	Effluent	2026-07-05 14:25	21.8	<u>6.80</u>	1.24	0.24	3.2	6.9	2404	No
WWTP-E-OUT	Effluent	2026-07-06 13:49	22.3	<u>5.85</u>	1.18	1.87	4.4	6.9	2302	No
WWTP-E-OUT	Effluent	2026-07-07 9:50	23.0	<u>7.01</u>	1.11	0.55	3.4	6.7	2174	No
WWTP-E-OUT	Effluent	2026-07-09 16:05	22.9	<u>4.49</u>	1.2	5.88	7.4	7.4	2339	No
WWTP-E-OUT	Effluent	2026-07-10 15:01	22.5	<u>6.37</u>	1.44	1.00	3.7	6.8	2781	No
WWTP-E-OUT	Effluent	2026-07-11 11:06	22.1	<u>7.29</u>	1.97	2.34	4.7	7.2	3724	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (July 5 - 11). Results above screening values are highlighted for comparative purposes. Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life. Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life. Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² The WQG was not evaluated for parameters with discharge limits.
³ TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
⁴ Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond. Daily field measurements for station WWTP-E-IN were not collected on July 8 as the East WWTP was not operational at the time of monitoring.
⁵ There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (July 5 - 11), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field measurements for station WWTP-E-OUT were not collected on July 8 as the East WWTP was not operational at the time of monitoring.
⁶ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-4:
East Catchment Daily Discharge Volumes for the Monitoring Period (July 5 - 11).

	East Sedimentation Pond Effluent	Transfer to West Sedimentation Pond	East WWTP Treated Effluent (Station WWTP-E-OUT) ²	Discharge to Howe Sound (Station SP-E-OUT)
Units	m ³	m ³	m ³	m ³
PE-111578 Discharge Limit	-	-	1,100	- ¹
Date				
2026-07-05	0	0	329	0
2026-07-06	0	0	328	0
2026-07-07	0	0	369	0
2026-07-08	0	0	64	0
2026-07-09	0	0	46	0
2026-07-10	0	0	196	0
2026-07-11	0	0	471	0

Notes:
Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.
¹ As noted in PE-111578 Condition 2.1.4, the annual average authorized discharge rate from the East Sedimentation Pond to Howe Sound was set to 650 m³/day for the purpose of calculating discharge fees as required by the Permit and Approval Fees and Charges Regulation. Therefore, the annual average authorized discharge rate is not evaluated as a discharge limit.
² East WWTP treated effluent was recirculated to the East Sedimentation Pond.

Appendix C:
West Catchment Monitoring Results

Table C-1:
West 2700GPM TSS Settling System Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station 2700GPM-IN	Station 2700GPM-IN	Station W2700T1-OUT	Station W2700T1-OUT	Station W2700T1-OUT
					Influent	Influent	Effluent	Effluent	Effluent
					2700GPM-IN	2700GPM-IN	W2700T1-OUT	W2700T1-OUT	W2700T1-OUT-DUP
		VA26B6217-002	VA26B7464-002		VA26B6217-003	VA26B7464-003	VA26B7464-006		
		Long Term	Short Term		2026-06-22 10:41	2026-07-03 13:04	2026-06-22 10:09	2026-07-03 13:48	2026-07-03 13:48
General Parameters									
pH - Field	pH units	- ²	-	5.5 - 9.0	8.3	8.4	7.9	8.3	8.3
Specific Conductivity - Field	µS/cm	-	-	-	967	759	959	761	-
Temperature - Field	°C	-	-	-	23.8	20.3	22.9	20	-
Salinity - Field	ppt	-	-	-	0.48	0.37	0.47	0.37	-
Turbidity - Field	NTU	-	-	-	5.01	21.64	2.69	8.1	761
TSS	mg/L	-	-	25 or 75 ⁵	4.6	13.7	-	<3.0	3.7
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.69	9.22	8.04	8.98	8.98
Total Hardness	mg/L	-	-	-	57.9	47.6	53.6	44.3	42.8
Dissolved Hardness	mg/L	-	-	-	54.7	46.8	57.7	42.8	44.7
Anions and Nutrients									
Sulphate	mg/L	-	-	-	232	170	-	171	171
Chloride	mg/L	-	-	-	14.6	11.2	-	11.4	11.3
Fluoride	mg/L	-	1.5	-	0.238	0.195	-	0.203	0.196
Ammonia (N-NH ₃)	mg/L	0.41-1.5 ³	2.7-10 ³	-	0.129	0.117	-	0.116	0.114
Nitrite (N-NO ₂)	mg/L	-	-	-	0.185	0.14	-	0.142	0.144
Nitrate (N-NO ₃)	mg/L	3.7	339	-	<u>7.92</u>	3.6	-	<u>3.81</u>	<u>3.79</u>
Total Organic Carbon (TOC)	mg/L	-	-	-	2.98	4.62	-	4.37	4.45
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.71	4.22	-	4.05	4.16
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	-	0.355	1.02	0.222	0.407	0.401
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00133	0.00101	0.00127	0.00103	0.00099
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.0021	0.00236	0.00194	0.00228	0.0022
Barium, total (T-Ba)	mg/L	-	-	-	0.00665	0.0107	0.00401	0.00414	0.00418
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.053	0.025	0.05	0.024	0.023
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000400	<0.0000400	<0.0000350	<0.0000300	<0.0000250
Chromium, total (T-Cr)	mg/L	-	-	-	0.00119	0.00065	0.00108	0.00054	0.00051
Cobalt, total (T-Co)	mg/L	-	-	-	0.00015	0.00035	0.00011	0.00014	0.00013
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00393	0.00252	0.00151	0.00207	0.00204
Iron, total (T-Fe)	mg/L	-	-	-	0.172	0.822	0.075	0.214	0.211
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000763	0.000685	0.000203	0.000248	0.000242
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0117	0.0438	0.00497	0.012	0.0118
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.125	0.0691	0.113	0.0738	0.0687
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000299	0.000175	0.000265	0.000201	0.000161
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000031	0.000044	0.000032	0.000025	0.000023
Uranium, total (T-U)	mg/L	-	-	-	0.0176	0.00992	0.0194	0.0101	0.0102
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00243	0.00309	0.00225	0.00238	0.0023
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0149	0.0088	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00147	<0.00050	0.00106	<0.00050	<0.00050
Dissolved Metals									
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000300	<0.0000250	<0.0000300	<0.0000200	<0.0000200
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.0021	0.00171	0.00136	0.00144	0.00144
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.016	0.045	0.013	0.037	0.038
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000212	0.000145	0.000091	0.000094	0.000107
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00369	0.011	0.00126	0.00213	0.00247
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.128	0.0953	0.122	0.0969	0.0981
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00216	0.00193	0.00213	0.002	0.002
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.005	0.0023	0.0015	0.0011	0.0011
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	mg/L	0.006	-	-	-	<0.000010	-	<0.000010	<0.000010
Acridine	mg/L	-	-	-	-	<0.000010	-	<0.000010	<0.000010
Anthracene	mg/L	-	-	-	-	<0.000010	-	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	-	-	<0.000010	-	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	-	<0.0000050	-	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	-	-	<0.000010	-	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	-	-	<0.000010	-	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	-	-	<0.000010	-	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010	-	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010	-	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	-	-	<0.000050	-	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	-	-	<0.000020	-	<0.000020	<0.000020
Pyrene	mg/L	-	-	-	-	<0.000010	-	<0.000010	<0.000010
Quinoline	mg/L	-	-	-	-	<0.000050	-	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)									
Benzene	mg/L	0.59	6.0	-	-	<0.00050	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.07	1.0	-	-	<0.00050	-	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	<0.00050	-	<0.00050	<0.00050
Styrene	mg/L	-	-	-	-	<0.00050	-	<0.00050	<0.00050
Toluene	mg/L	0.03	3.0	-	-	<0.00040	-	<0.00040	<0.00040
Total Xylenes	mg/L	0.07	1.0	-	-	<0.00050	-	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	-	-	<0.00050	-	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	<0.00050	-	<0.00050	<0.00050

Notes:

West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.

Non-detect results are screened using the detection limit value.

Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.

Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.

Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.

The West Catchment did not discharge during the monitoring period (July 5 - 11).

¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

² The WQG was not evaluated for parameters with discharge limits.

³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.

⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-2:
West 2700GPM TSS Settling System Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station W2700T3-OUT	Station W2700T4-OUT
					Effluent	Effluent
					W2700T3-OUT VA26B7464-004	W2700T4-OUT VA26B7464-005
		Long Term	Short Term		2026-07-03 14:22	2026-07-03 14:33
General Parameters						
pH - Field	pH units	- ²	-	5.5 - 9.0	8.5	8.4
Specific Conductivity - Field	µS/cm	-	-	-	759	759
Temperature - Field	°C	-	-	-	21	20.5
Salinity - Field	ppt	-	-	-	0.37	0.37
Turbidity - Field	NTU	-	-	-	7.98	7.94
TSS	mg/L	-	-	25 or 75 ⁵	5.3	3.3
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.78	9.05
Total Hardness	mg/L	-	-	-	40.1	40.6
Dissolved Hardness	mg/L	-	-	-	41	42.5
Anions and Nutrients						
Sulphate	mg/L	-	-	-	169	170
Chloride	mg/L	-	-	-	11.3	11.3
Fluoride	mg/L	-	1.5	-	0.201	0.193
Ammonia (N-NH ₃)	mg/L	0.41 ³	2.7 ³	-	0.155	0.130
Nitrite (N-NO ₂)	mg/L	-	-	-	0.138	0.135
Nitrate (N-NO ₃)	mg/L	3.7	339	-	3.57	<u>3.72</u>
Total Organic Carbon (TOC)	mg/L	-	-	-	4.31	4.72
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.86	4.32
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.382	0.404
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00106	0.00102
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00239	0.00217
Barium, total (T-Ba)	mg/L	-	-	-	0.00282	0.0028
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.015	0.018
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000250	<0.0000300
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050	0.00385
Cobalt, total (T-Co)	mg/L	-	-	-	0.00015	0.00021
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.0127	0.0105
Iron, total (T-Fe)	mg/L	-	-	-	0.244	0.248
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000784	0.00103
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0303	0.0294
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0714	0.0705
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	0.00198
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000163	0.000148
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000063	0.00006
Uranium, total (T-U)	mg/L	-	-	-	0.00924	0.00982
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00249	0.0024
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0053	0.0107
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000200	<0.0000250
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00233	0.00162
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.033	0.044
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000153	0.000159
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0187	0.0202
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0881	0.0863
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.002	0.00231
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0018	0.0017
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	-	-
Acridine	mg/L	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-	-
Chrysene	mg/L	0.0001	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-
Fluorene	mg/L	0.012	-	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-	-
Naphthalene	mg/L	0.001	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-
Quinoline	mg/L	-	-	-	-	-
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-
Styrene	mg/L	-	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-	-
Total Xylenes	mg/L	0.07	1.0	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	-

Notes:

West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.

Non-detect results are screened using the detection limit value.

Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.

Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.

Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.

The West Catchment did not discharge during the monitoring period (July 5 - 11).

¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

² The WQG was not evaluated for parameters with discharge limits.

³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.

⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-3:
West Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station SP-W-IN	Station SP-W-IN
					Influent	Influent
					SP-W-IN	SP-W-IN
		VA26B6217-001	VA26B7464-001			
		Long Term	Short Term		2026-06-22 11:00	2026-07-03 12:39
General Parameters						
pH - Field	pH units	- ²	-	5.5 - 9.0	8.2	7.3
Specific Conductivity - Field	µS/cm	-	-	-	976	72
Temperature - Field	°C	-	-	-	24.7	19.6
Salinity - Field	ppt	-	-	-	0.48	0.37
Turbidity - Field	NTU	-	-	-	5.1	8.03
TSS	mg/L	-	-	25 or 75 ⁵	6	17.9
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.68	9.09
Total Hardness	mg/L	-	-	-	58.6	45.8
Dissolved Hardness	mg/L	-	-	-	51.3	43.5
Anions and Nutrients						
Sulphate	mg/L	-	-	-	233	172
Chloride	mg/L	-	-	-	14.6	11.4
Fluoride	mg/L	-	1.5	-	0.238	0.192
Ammonia (N-NH ₃)	mg/L	0.62-8.7 ³	4.2-58 ³	-	0.106	0.155
Nitrite (N-NO ₂)	mg/L	-	-	-	0.175	0.14
Nitrate (N-NO ₃)	mg/L	3.7	339	-	<u>8.09</u>	<u>3.86</u>
Total Organic Carbon (TOC)	mg/L	-	-	-	3.86	4.3
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.84	3.88
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.772	1.05
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00128	0.00107
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.0021	0.00234
Barium, total (T-Ba)	mg/L	-	-	-	0.0075	0.00855
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.047	0.021
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000300	<0.0000350
Chromium, total (T-Cr)	mg/L	-	-	-	0.00124	0.00075
Cobalt, total (T-Co)	mg/L	-	-	-	0.00025	0.00037
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00173	0.002
Iron, total (T-Fe)	mg/L	-	-	-	0.416	0.889
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000465	0.000691
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0266	0.0517
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.115	0.0729
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000249	0.000197
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000027	0.000054
Uranium, total (T-U)	mg/L	-	-	-	0.0177	0.00945
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00282	0.00328
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0044	0.0065
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00113	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000300	<0.0000200
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00113	0.00113
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.015	0.048
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000053	0.000101
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00158	0.0159
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.128	0.0903
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00216	0.00212
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	-	<0.000010
Acridine	mg/L	-	-	-	-	<0.000010
Anthracene	mg/L	-	-	-	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	-	<0.000010
Fluoranthene	mg/L	-	-	-	-	<0.000010
Fluorene	mg/L	0.012	-	-	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010
Naphthalene	mg/L	0.001	-	-	-	<0.000050
Phenanthrene	mg/L	-	-	-	-	<0.000020
Pyrene	mg/L	-	-	-	-	<0.000010
Quinoline	mg/L	-	-	-	-	<0.000050
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	-	<0.00050
Ethylbenzene	mg/L	0.07	1.0	-	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	<0.00050
Styrene	mg/L	-	-	-	-	<0.00050
Toluene	mg/L	0.03	3.0	-	-	<0.00040
Total Xylenes	mg/L	0.07	1.0	-	-	<0.00050
Chlorobenzene	mg/L	0.025	-	-	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	<0.00050

Notes:

West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.

Non-detect results are screened using the detection limit value.

Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.

Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.

Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.

The West Catchment did not discharge during the monitoring period (July 5 - 11).

¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

² The WQG was not evaluated for parameters with discharge limits.

³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

⁴ The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.

⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-4:
West Catchment Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

Parameter					Total Methylmercury	Total Mercury
Unit					µg/L	µg/L
Lowest Applicable Guideline ¹					0.0001 ²	0.00098-0.0019 ^{3,4}
Station	Water Type	Sample ID	Lab ID	Sampling Date		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26B6217-001	2026-06-22	<u>0.000131</u>	<u>0.00204</u>
2700GPM-IN	Influent	W2700-IN	VA26B6217-002	2026-06-22	<u>0.000129</u>	<u>0.00250</u>
Effluent						
W2700T1-OUT	Effluent	W2700T1-OUT	VA26B6217-003	2026-06-22	<u>0.000141</u>	<u>0.00138</u>

Notes:
West catchment influents were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine aquatic life.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² From BC Ambient Water Quality Guidelines for Mercury Overview Report. The methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) is indicated as a WQG for the protection of wildlife and is set at a concentration that protects fish from mercury bioaccumulation to a level that may harm wildlife that consume fish.
³ CCME guideline for total mercury = 0.016 µg/L.
⁴ When MeHg ≤ 0.5% of total Hg, BC WQG = 0.02 µg/L. When MeHg > 0.5% of total Hg, BC WQG = 0.0001/(MeHg/Total Hg). Detection limit values are used to calculate the WQG for result reported as not detected.

Table C-5:
West Catchment Field Measurements Collected During the Monitoring Period (July 5 - 11).

Parameter			Temperature	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS ³	pH	Specific Conductivity	Visibility of Sheen
Unit			°C	mg/L	ppt	NTU	mg/L	s.u.	µS/cm	
PE-111578 Discharge Limit			-	-	-	-	25 or 75 ⁶	5.5 - 9.0	-	-
Lowest Applicable Guideline ¹			-	≥8	-	-	- ²	- ²	-	-
Station ID	Water Type	Date								
Influent ⁴										
SP-W-IN	Influent	2026-07-05 11:20	21.6	9.12	0.38	6.43	7.8	7.7	766	No
SP-W-IN	Influent	2026-07-06 9:00	20.1	8.67	0.43	9.99	10.5	6.9	863	No
SP-W-IN	Influent	2026-07-07 9:18	21.0	8.16	0.44	12.51	12.3	8.1	887	No
SP-W-IN	Influent	2026-07-08 13:47	25.3	8.60	0.44	28.32	24.1	8.0	900	No
SP-W-IN	Influent	2026-07-09 12:10	24.5	9.51	0.44	13.51	13.1	8.1	897	No
SP-W-IN	Influent	2026-07-10 11:14	22.2	8.90	0.45	12.31	12.2	8.5	911	No
SP-W-IN	Influent	2026-07-11 12:16	21.9	8.82	0.44	9.11	9.8	8.3	898	No
2700GPM-IN	Influent	2026-07-05 11:11	21.8	9.17	0.38	7.91	8.9	7.9	770	No
2700GPM-IN	Influent	2026-07-06 9:03	21.5	8.68	0.42	8.89	9.6	7.5	863	No
2700GPM-IN	Influent	2026-07-07 9:09	22.3	8.94	0.44	7.71	8.8	8.0	892	No
2700GPM-IN	Influent	2026-07-08 13:33	25.4	8.83	0.44	9.83	10.3	8.4	899	No
2700GPM-IN	Influent	2026-07-11 11:47	21.2	9.09	0.44	10.93	11.2	8.3	895	No
Effluent ⁵										
-	-	-	-	-	-	-	-	-	-	-

Notes:
West catchment influents for July 5 - 11 were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² The WQG was not evaluated for parameters with discharge limits.
³ TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
⁴ Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.
⁵ As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent was not discharged to Howe Sound at the authorized discharge location (SP-W-OUT) during the monitoring period (July 5 - 11); therefore, daily field parameters were not collected from station SP-W-OUT on July 5 - 11.
⁶ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-6:
West Catchment Daily Discharge Volumes for the Monitoring Period (July 5 - 11).

	West Sedimentation Pond Effluent	West TSS Settling System (2700GPM) Clarified Effluent (Station 2700GPM-OUT) ³	Water Reclaimed for Construction Purposes (Station 2700GPM-OUT)	West WWTP Treated Effluent ¹ (Station WWTP-W-OUT)	Discharge to Howe Sound (Station SP-W-OUT)
Unit	m ³	m ³	m ³	m ³	m ³
PE-111578 Discharge Limit	-	-	-	120	- ²
Date					
2026-07-05	0	1,272	139	0	0
2026-07-06	0	791	5	0	0
2026-07-07	0	82	0	0	0
2026-07-08	0	312	0	0	0
2026-07-09	0	0	0	0	0
2026-07-10	0	0	0	0	0
2026-07-11	0	853	0	0	0

Notes:
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
¹ The West WWTP is not being operated therefore discharges are not expected from this facility

***Appendix D:
Marine Receiving Environment Monitoring
Results***

Table D-1:
Marine Water Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

Parameter					Total Methylmercury	Total Mercury
Unit					µg/L	µg/L
Lowest Applicable Guideline ¹					0.0001 ²	0.010-0.017 ^{3,4}
Station	Position in Water Column	Sample ID	Lab ID	Sampling Date		
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA26B5471-001	2026-06-15	0.000021	<0.0050
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5-DUP	VA26B5471-010	2026-06-15	0.000029	<0.0050
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26B5471-002	2026-06-15	<0.000020	<0.0050
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26B5471-003	2026-06-15	0.000024	<0.0050
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26B5471-004	2026-06-15	0.000044	<0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26B5471-005	2026-06-15	0.000048	<0.0050
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26B5471-006	2026-06-15	<0.000020	<0.0050
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26B5471-007	2026-06-15	<0.000020	<0.0050
WQR2	2 m Below Surface	WQR2-2m	VA26B5471-008	2026-06-15	<0.000020	<0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA26B5471-009	2026-06-15	0.000021	<0.0050

Notes:
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine aquatic life.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² From BC Ambient Water Quality Guidelines for Mercury Overview Report. The methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) is indicated as a WQG for the protection of wildlife and is set at a concentration that protects fish from mercury bioaccumulation to a level that may harm wildlife that consume fish.
³ CCME guideline for total mercury = 0.016 µg/L.
⁴ When MeHg ≤ 0.5% of total Hg, BC WQG = 0.02 µg/L. When MeHg > 0.5% of total Hg, BC WQG = 0.0001/(MeHg/Total Hg). Detection limit values are used to calculate the WQG for result reported as not detected.
Non-detect results are screened using the detection limit value.

Table D-2:
Marine Water Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					Lower Bound PCDD/F TEQ	Upper Bound PCDD/F TEQ
Unit					pg/L	pg/L
Station	Position in Water Column	Sample ID	Lab ID	Sampling Date		
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA26B5475-001	2026-06-15	0	3.62
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5-DUP	VA26B5475-010	2026-06-15	0	0.799
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26B5475-002	2026-06-15	0	0.925
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26B5475-003	2026-06-15	0.000334	0.744
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26B5475-004	2026-06-15	0.0551	0.771
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26B5475-005	2026-06-15	0.0000	3.31
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26B5475-006	2026-06-15	0.0124	1.05
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26B5475-007	2026-06-15	0	0.865
WQR2	2 m Below Surface	WQR2-2m	VA26B5475-008	2026-06-15	0	0.877
WQR2	2 m Above Seafloor	WQR2-SF	VA26B5475-009	2026-06-15	0	0.886

Notes:
PCDD = polychlorinated dibenzodioxins (dioxins)
PCDF = polychlorinated dibenzofurans (furans)
TEQ = toxic equivalency
Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).
Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

Table D-3: Marine Sediment Quality Results

Sample		UNITS						East Sedimentation Pond IDZ										West Sedimentation Pond IDZ									
Laboratory ID	CSR		CCME		BC ENV		IDZ-E-SED-A	IDZ-E-SED-B	IDZ-E-SED-C	SED-L	SED-N	IDZ-W-SED-A	IDZ-W-SED-B	IDZ-W-SED-C	SED-F	SED-G											
Sampling Date	Sensitive Use		ISQG	PEL	Lower WSQG	Upper WSQG	VA26B2317-001	VA26B2317-002	VA26B2317-003	VA26B2317-004	VA26B2317-005	VA26B2526-001	VA26B2526-002	VA26B2526-003	VA26B2526-004	VA26B2526-005											
General Parameters	Soluble (2:1) pH	pH	-	-	-	-	7.55	7.59	7.50	7.52	7.61	7.96	7.97	7.97	7.89	7.93											
	Moisture	%	-	-	-	-	62.6	64.7	64.4	73	59.8	42.3	45.1	41.6	43.0	41.6											
	Total Carbon	%	-	-	-	-	7.61	8.07	10.9	15.2	6.80	4.74	1.8	1.86	1.64	2.02											
	Total Inorganic Carbon (TIC)	%	-	-	-	-	0.225	0.227	0.258	0.274	0.23	1.65	0.264	0.252	0.218	0.301											
	Total Organic Carbon (TOC)	%	-	-	-	-	7.38	7.84	10.6	14.9	6.57	3.09	1.54	1.61	1.42	1.72											
Particle Size	Passing(0.063mm)	%	-	-	-	-	81.0	71.6	76.3	65.1	84.5	44.8	53.7	47.9	49.9	44.3											
	Passing(0.125mm)	%	-	-	-	-	86.4	77.3	81.7	67.8	90.2	52.9	64.6	57.5	60.9	53.2											
	Passing(0.250mm)	%	-	-	-	-	92.3	83.5	88.3	71.8	95.1	67.2	84.7	80.5	80.2	76.1											
	Passing(0.50mm)	%	-	-	-	-	96.6	88.5	93.0	76.9	98.0	77.9	95.4	94.5	91.8	89.3											
	Passing(1.0mm)	%	-	-	-	-	97.9	92.2	95.1	80.5	99.2	83.7	97.9	96.8	96.6	94.1											
Metals	Passing(2.0mm)	%	-	-	-	-	98.6	94.1	96.1	83.4	99.8	87.3	98.9	98.3	98.3	95.2											
	Aluminum (Al)	mg/kg	-	-	-	-	18700	17300	15900	15300	22600	17600	17100	17400	17400	17600											
	Antimony (Sb)	mg/kg	-	-	-	-	0.51	0.43	0.52	0.37	0.57	5.58	1.01	1.62	0.93	1.86											
	Arsenic (As)	mg/kg	26	7.24	41.6	7.24	41.6	7.19	6.6	7.44	5	7.59	7.29	5.43	5.79	5.72	7.46										
	Barium (Ba)	mg/kg	-	-	-	-	-	143	128	113	117	167	232	153	183	138											
	Beryllium (Be)	mg/kg	-	-	-	-	-	0.2	0.2	0.18	0.18	0.23	0.27	0.22	0.2	0.24	0.23										
	Bismuth (Bi)	mg/kg	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2										
	Boron (B)	mg/kg	-	-	-	-	-	50.1	40.8	65.5	58.7	48.8	53.7	39.3	33.6	48.7	51.1										
	Cadmium (Cd)	mg/kg	2.6	0.7	4.2	0.7	4.2	0.565	0.525	0.646	0.541	0.649	0.352	0.281	0.267	0.276	0.269										
	Calcium (Ca)	mg/kg	-	-	-	-	-	9650	8730	8650	11100	10500	26400	10400	10500	10100	10700										
	Chromium (Cr)	mg/kg	99	52.3	160	52.3	160	22	22.7	21.7	19.7	25.9	23.1	18.6	19.4	18.8	17.4										
	Cobalt (Co)	mg/kg	-	-	-	-	-	9.51	8.93	8.32	7.71	10.9	8.45	8.72	8.69	8.33	8.58										
	Copper (Cu)	mg/kg	67	18.7	108	18.7	108	59.7	58.8	64.6	55	67.5	112	79.4	79.7	68.6	78.5										
	Iron (Fe)	mg/kg	-	-	-	-	-	27000	26200	26000	21800	31700	26500	26600	26100	25900	26200										
	Lead (Pb)	mg/kg	69	30.2	112	30.2	112	17.4	17.2	17	13.8	17.4	63.8	28.3	21.9	31.8	47.1										
	Lithium (Li)	mg/kg	-	-	-	-	-	16.8	16.6	14.2	13.1	18.6	19.5	20.2	21.5	20.8	21.9										
	Magnesium (Mg)	mg/kg	-	-	-	-	-	11500	10500	11000	10400	13000	9240	9010	9150	8540	9630										
	Manganese (Mn)	mg/kg	-	-	-	-	-	453	426	407	393	451	461	419	454	409	407										
	Mercury (Hg)	mg/kg	0.43	0.13	0.7	0.13	0.7	0.153	0.0597	0.0936	0.0542	0.059	0.0648	0.0604	0.0465	0.0492	0.116										
	Molybdenum (Mo)	mg/kg	-	-	-	-	-	6.26	6.3	8.13	6.2	6.94	5.32	4.08	4.08	4.8	3.71										
	Nickel (Ni)	mg/kg	-	-	-	30	50	14.2	14.1	13.6	12.4	16.4	21.3	30	14.4	14.4	15.2										
	Phosphorus (P)	mg/kg	-	-	-	-	-	910	841	869	740	1030	1010	787	726	862	764										
	Potassium (K)	mg/kg	-	-	-	-	-	5260	4720	4740	4460	5910	4090	4300	4330	3880	4410										
	Selenium (Se)	mg/kg	-	-	-	-	-	0.51	0.41	0.45	0.46	0.43	0.29	0.28	0.28	0.25	0.25										
	Silver (Ag)	mg/kg	-	-	-	1	2.2	0.16	0.15	0.14	0.11	0.16	0.12	0.11	<0.1	0.1	0.11										
	Sodium (Na)	mg/kg	-	-	-	-	-	15000	14200	20700	18900	16500	13800	10100	10400	9200	13600										
	Strontium (Sr)	mg/kg	-	-	-	-	-	111	95.7	107	110	124	288	136	132	218	136										
	Sulfur (S)	mg/kg	-	-	-	-	-	10000	10600	13700	11700	12800	7100	5400	6400	6200	5800										
	Thallium (Tl)	mg/kg	-	-	-	-	-	0.213	0.213	0.211	0.193	0.237	0.146	0.178	0.163	0.166	0.162										
	Tin (Sn)	mg/kg	-	-	-	-	-	3.0	2.3	2.5	<2	2.9	35.1	5	9.7	2.4	7.4										
	Titanium (Ti)	mg/kg	-	-	-	-	-	1410	1230	1200	1140	1630	1110	1220	1300	1240	1150										
	Tungsten	mg/kg	-	-	-	-	-	<0.5	<0.5	0.54	<0.5	<0.5	<0.5	0.68	<0.5	<0.5	<0.5										
	Uranium (U)	mg/kg	-	-	-	-	-	1.93	1.71	2.37	3.01	2	1.58	1.46	1.32	1.72	2.06										
	Vanadium (V)	mg/kg	-	-	-	-	-	67.9	60.9	60.2	55.7	77.6	63.1	68.1	66.1	65.1	64.8										
	Zinc (Zn)	mg/kg	170	124	271	124	271	102	102	107	88.4	122	141	81.9	80.6	73.1	90.8										
	Zirconium (Zr)	mg/kg	-	-	-	-	-	5.2	4.1	5.1	4.7	5.3	5.5	3.5	3.4	5.1	2.8										
	Speciated Metals	Methylmercury	mg/kg	-	-	-	-	0.00209	0.00158	0.00138	0.00125	0.00111	0.542	1.01	0.514	1.48	0.256										
		Trivalent Chromium	mg/kg	-	-	-	-	22	22.7	21.7	19.7	25.9	23.1	18.6	19.4	18.8	17.4										
		Hexavalent Chromium	mg/kg	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1									
		Acenaphthene	mg/kg	0.055	0.00671	0.0889	0.00671	0.0889	0.0984	0.102	0.137	0.164	0.0912	0.253	0.903	0.161	0.525	0.639									
		Acenaphthylene	mg/kg	0.079	0.00587	0.128	0.00587	0.128	0.0278	0.0266	0.0262	0.0308	0.027	0.0456	0.0742	0.0349	0.0639	0.0653									
	Polycyclic Aromatics	Acridine	mg/kg	-	-	-	-	-	0.021	0.021	0.021	0.024	0.023	0.047	0.067	0.024	0.048	0.094									
		Anthracene	mg/kg	0.15	0.0469	0.245	0.0469	0.245	0.128	0.108	0.132	0.14	0.129	0.49	0.522	0.162	0.279	1.15									
		Benzo(a)anthracene	mg/kg	0.43	0.0748	0.693	0.0748	0.693	0.178	0.162	0.168	0.164	0.198	0.463	0.739	0.308	0.421	1.15									
		Benzo(a)pyrene	mg/kg	0.47	0.0888	0.763	0.0888	0.763	0.142	0.142	0.118	0.127	0.167	0.257	0.419	0.2	0.236	0.521									
		Benzo(b&j)fluoranthene	mg/kg	-	-	-	2.3	4.5	0.222	0.232	0.196	0.205	0.251	0.442	0.668	0.299	0.409	0.809									
		Benzo(b+j+k)fluoranthene	mg/kg	-	-	-	-	-	0.299	0.328	0.276	0.286	0.35	0.585	0.9	0.405	0.559	1.11									
		Benzo(g,h,i)perylene	mg/kg	-	-	-	0.44-4.6	1.1-11.6	0.075	0.068	0.057	0.069	0.08	0.087	0.169	0.078	0.089	0.171									
		Benzo(k)fluoranthene	mg/kg	-	-	-	2.3	4.5	0.077	0.096	0.08	0.081	0.099	0.143	0.232	0.106	0.15	0.299									
		Chrysene	mg/kg	0.52	0.108	0.846	0.108	0.846	0.232	0.164	0.159	0.188	0.315	0.692	1.01	0.432	0.616	1.59									
Dibenz(a,h)anthracene		mg/kg	0.084	0.00622	0.135																						