

TECHNICAL MEMORANDUM

To: Ian McAllister, Ashleigh Crompton, Mike Champion,
and Ryan Schucroft (Woodfibre LNG) **Date:** 28 August 2026

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

Subject: PE-111578 Weekly Discharge and Compliance Report #128 for August 16 – 22

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 #128) was prepared by Lorax and summarizes WDA monitoring conducted for the period of August 16 – 22. 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 #128 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 weather conditions were observed during the August 16 – 22 monitoring period, with precipitation recorded on August 18 (11.2 mm) and August 22 (1.0 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
2026-08-16	0	21.9	14.7	Sunny
2026-08-17	0	24.0	14.5	Sunny
2026-08-18	11.2	24.9	15.2	Rain
2026-08-19	0	21.7	14.9	Sunny
2026-08-20	0	25.6	14.6	Sunny
2026-08-21	0	26.9	16.0	Sunny
2026-08-22	1.0	23.3	16.5	Sunny

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

From August 16 – 22, the East Sedimentation Pond received water from the MOF Sump and 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 August 16 – 22 (Appendix B, Table B-4).

Routine operation of the East WWTP continued during the monitoring period (August 16 – 22). Concrete contact water and water from the Hydrovac Pit 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 on August 16, 18 and 20. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-4).

From August 16 – 22, 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 on August 16 – 19 and recirculated back to the pond. West Sedimentation Pond effluent was not discharged to Howe Sound and clarified effluent was not reclaimed for construction use during the monitoring period (August 16 – 22). Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond 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, IDZ-W1, IDZ-W2, WQR1, WQR2, SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN and W2700T4-OUT during the monitoring period (August 16 – 22). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (August 16 – 22) 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 (August 16 – 22). 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 August 16, 17, 19, 21 and 22 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 (August 16 – 22).

Table 2:
Summary of PE-111578 Monitoring Samples Collected August 16 – 22.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
August 16, 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
August 17, 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, 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
	W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		
August 18, 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		
	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 & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	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
August 19, 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
August 20, 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
	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		
August 21, 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
August 22, 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
	IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M
	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		

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.
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 #128) 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:

- SP-W-IN, 2700GPM-IN and W2700T1-OUT collected August 3 (total mercury, methylmercury, dioxins and furans);
- SW-01, SW-02, SW-03, SW-04 and SW-07 collected August 3 (field measurements and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected August 6 (total mercury, methylmercury, dioxins and furans);
- COMB-WWTP-E-IN collected August 6 (total mercury and methylmercury);
- SP-W-IN, 2700GPM-IN and W2700T2-OUT collected August 13 (total mercury and methylmercury);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected August 14 (total mercury and methylmercury);
- SP-W-IN, 2700GPM-IN and W2700T4-OUT collected August 17 (all analytical parameters);
- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected August 18 (all analytical parameters);
- IDZ-E1, IDZ-E2 and WQR1 collected August 20 (field measurements and all analytical parameters);
- IDZ-W1, IDZ-W2 and WQR2 collected August 22 (field measurements and all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #128.

Sample	Description	Sampling Date	Parameters Reported
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	July 28, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, VOCs, 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-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure		Total Mercury, Methylmercury, Dioxins and Furans.
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond		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		
W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	August 13, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T2-OUT	2700GPM TSS settling system at the outlet of Train 2		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	August 14, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		

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. Sediment samples were last collected in May 2026, and the analytical results were presented in Report #122.

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.

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from August 16 – 22 (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.

Results are presented for field measurements of influent quality for the East Sedimentation Pond and East WWTP influent and effluent quality collected August 16 – 22 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT) as well as analytical results for samples collected August 14 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT; as discussed in Report #127) (Appendix B, Table B-1 through Table B-3).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected August 18 and 20 met MDOs except for dissolved oxygen (Appendix B, Table B-3). 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. Total selenium was above the MDO in the WWTP-E-OUT analytical sample collected August 14. Metal parameters above MDOs are tracked in Table 4.

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 (August 16 – 22). 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 quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected August 16 – 22 (stations SP-W-IN and 2700GPM-IN) as well as analytical results for samples collected July 28 (total mercury and methylmercury for stations SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT and W2700T4-OUT; as discussed in Report #125) and August 13 (stations SP-W-IN, 2700GPM-IN and W2700T2-OUT; as discussed in Report #126) (Appendix C, Table C-1 through Table C-3).

Total mercury and methylmercury analytical samples collected at SP-W-OUT on July 28 met WQGs (Appendix C, Table C-3).

Dioxins and furans results for duplicate samples collected July 28 at SP-W-OUT are presented in Appendix C, Table C-4. The lower bound PCDD/F TEQ concentrations ranged from 0.000888 to 0.0398 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 1.09 to 1.22 pg/L.

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 environments.

3.7 Marine Water Receiving Environment

Analytical results and field measurements were available at the time of reporting for marine water samples collected at 0.5 and 2 m below the water surface and 2 m above the seafloor on July 28 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Reports #125. The analytical results, field parameters, and WQGs are summarized in Appendix D.

Parameter concentrations met WQGs except dissolved oxygen, total boron and total copper in some samples (Appendix D; Table D-1 and Table D-2). Dissolved oxygen ranged from 5.44 to 6.15 mg/L and was below the lower limit of the WQG (8 mg/L) in all samples collected at 2 m above the seafloor on July 28. Total boron was above the long-term WQG (1.2 mg/L) and ranged from 1.50 to 4.12 mg/L in all marine water samples collected at 2 m above the seafloor and at 2 m below the surface at reference station WQR2. Total copper was above the long-term WQG (0.002 mg/L), ranging from 0.00219 to 0.00240 mg/L, in samples collected at 0.5 m below the surface at IDZ-W2 and reference station WQR2 as well as at 2 m below the surface at IDZ-W1.

Low concentrations of dissolved oxygen and elevated concentrations of total boron are indicative of influence from the deeper saline waters in the northern basin of Howe Sound and are a natural condition of marine water at the WDA monitoring stations. The dissolved oxygen and total boron concentrations observed at the IDZ monitoring stations are within concentration ranges that have been observed in the pre-construction baseline monitoring program (2.44 to 9.42 mg/L for dissolved oxygen and 0.0893 to 8.38 mg/L for total boron) and within ranges observed at marine reference stations for dissolved oxygen (2.44 to 12.95 mg/L) and total boron (0.114 to 8.38 mg/L). The total copper concentrations observed at IDZ monitoring stations are within concentrations ranges that have been observed in the pre-construction baseline monitoring program (0.00040 to 0.00974 mg/L) and within ranges observed at marine reference stations for total copper (<0.00050 to 0.00974 mg/L).

Methylmercury, dioxin and furans analytical results were available at the time of reporting for all marine water samples collected July 28 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Report #125. For all samples, methylmercury concentrations ranged from <0.000020 to 0.000035 µg/L and met the WQG. The corresponding total mercury results met WQGs. For all samples, the lower bound PCDD/F TEQ concentrations ranged from 0 to 0.0370 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 0.918 to 1.96 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-3 and Table D-4.

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 (August 16 – 22, Report #128)		
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 #128: Pending Data	Analytical results not reported.	Analytical results for contact and treated water samples collected August 17 and 18 as well as field measurements and all analytical parameters for receiving environment samples collected August 20 and 22 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 and on July 10 and 26 were above the MDOs. Total mercury was above the MDO on July 20. 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 #116: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	This item was first noted in Report #116. Hexavalent chromium concentrations in all samples collected at WWTP-E-OUT in July and on August 6 were above the MDO (0.0015 mg/L). The hexavalent chromium concentration in the WWTP-E-OUT sample collected August 14 met the MDO. The WWTP treatment performance for hexavalent chromium will continue to be evaluated through August 2026. This item remains open.
Report #125: Pending Data	Analytical results not reported.	Previously pending field measurements and analytical results for receiving environment samples collected July 28 as well as total mercury, methylmercury, dioxins and furans results for contact and treated water samples collected July 28 are included in Report #128. This item is closed.
Report #126: Pending Data	Analytical results not reported.	Field measurements and analytical results for receiving environment samples collected August 3 as well as total mercury, methylmercury, dioxins and furans results for contact and treated water samples collected August 3 and 6 are pending and will be included in future weekly reports when available. This item remains open.
Report #127: Pending Data	Analytical results not reported.	Previously pending analytical results for contact and treated water samples collected August 13 and 14 are included in Report #128. Total mercury and methylmercury results for these samples are pending and will be included in future weekly reports when available. This item remains open.
Report #127: WWTP Performance Evaluation	Total selenium above the MDO.	The total selenium concentrations in duplicate samples collected at WWTP-E-OUT on August 6 (0.00240 and 0.00256 mg/L) and in the WWTP-E-OUT sample collected on August 14 (0.00252 mg/L) were above the MDO (0.002 mg/L). The WWTP treatment performance for total selenium will be evaluated through August 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. 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.

A handwritten signature in black ink, appearing to read 'Cheng Kuang', is positioned above the name of the Environmental Scientist.

**Holly Pelletier, B.Sc., P.Geo.
Environmental Geoscientist**

**Cheng Kuang, M.Sc., RPBio.
Environmental Scientist**

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: Aug 27, 2026
DRAWN BY: DM
REVIEWED: PM
VERSION: 1

Coordinate System: NAD 1983 UTM Zone 10N
Projection: Transverse Mercator
Datum: North American 1983
Units: Metre
1:6,000
0 100 200 Metres



PROJECT: Woodfibre LNG Project Construction Phase
TITLE: Site Layout and Water Quality Monitoring Stations for PE-111578 (August 22, 2026)
PROJECT #: A825-1
FIGURE: 1

Potential Influent Sources to EWWTP and East Sediment Pond: August 16 - August 22, 2026

Figure 2

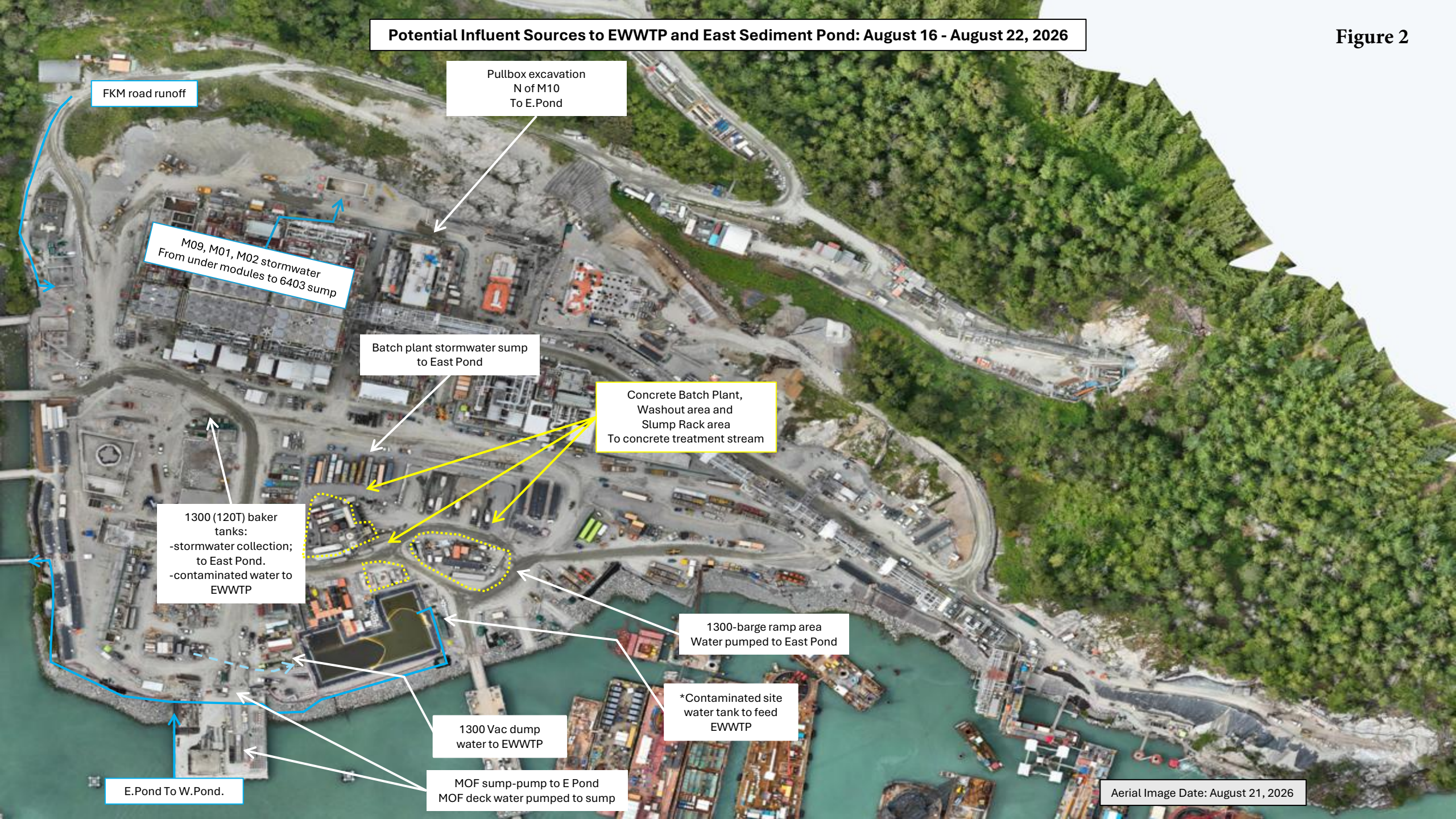


Figure 3

Potential Influent Sources to West Sedimentation Pond and 2700GPM system: August 16 - August 22, 2026

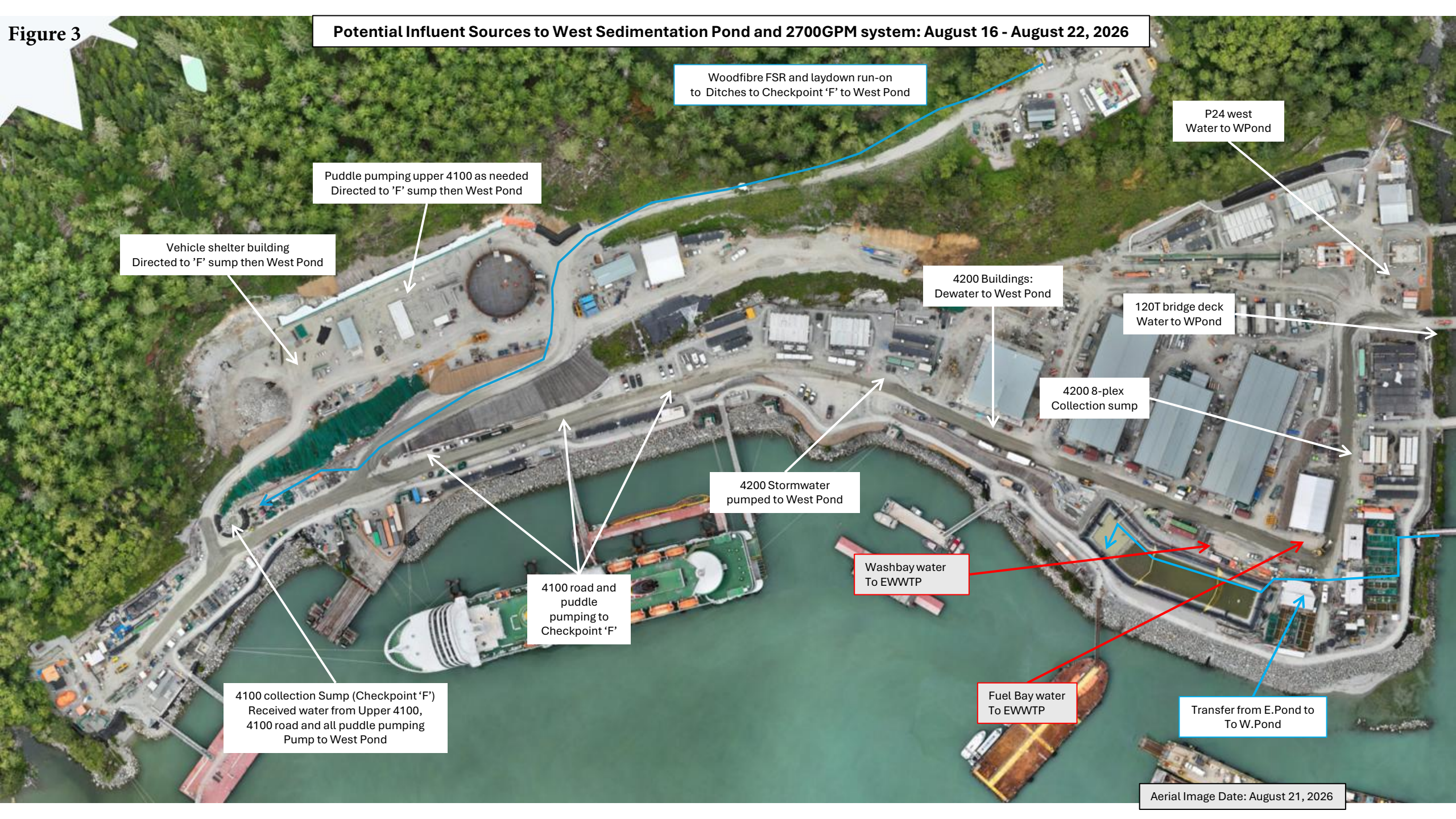




Figure 4: Aerial view of the East Sedimentation Pond (August 22, 2026). The East WWTP is located on the left side of the pond.



Figure 5: Aerial view of the West Sedimentation Pond (August 21, 2026).

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	Station	
					WWTP-E-IN	WWTP-E-OUT	
					Influent	Effluent	
					WWTP-E-IN	WWTP-E-OUT	
		VA26C2414-002	VA26C2414-003				
		Long Term	Short Term			2026-08-14 12:21	2026-08-14 16:02
General Parameters							
pH - Field	pH units	- ²	-	5.5 - 9.0	7.94	6.49	
Specific Conductivity - Field	µS/cm	-	-	-	3508	3611	
Temperature - Field	°C	-	-	-	25.4	24.4	
Salinity - Field	ppt	-	-	-	1.84	1.9	
Turbidity - Field	NTU	-	-	-	3.05	3.88	
TSS	mg/L	-	-	25 or 75 ⁵	<3.0	<3.0	
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.99	<u>5.75</u>	
Total Hardness	mg/L	-	-	-	126	55.7	
Dissolved Hardness	mg/L	-	-	-	125	55.2	
Anions and Nutrients							
Sulphate	mg/L	-	-	-	1290	1310	
Chloride	mg/L	-	-	-	21.4	22.2	
Fluoride	mg/L	-	1.5	-	<0.400	<0.400	
Ammonia (N-NH ₃)	mg/L	1.5-9.4 ³	10-62 ³	-	0.111	0.132	
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0596	0.0718	
Nitrate (N-NO ₃)	mg/L	3.7	339	-	0.748	1.2	
Total Organic Carbon (TOC)	mg/L	-	-	-	5.18	4.70	
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	4.60	3.91	
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	0.260	0.155	
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00242	0.00255	
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00258	0.00266	
Barium, total (T-Ba)	mg/L	-	-	-	0.0297	0.00796	
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040	<0.000100	
Boron, total (T-B)	mg/L	1.2	-	-	0.292	0.223	
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000600	<0.0000550	
Chromium, total (T-Cr)	mg/L	-	-	-	0.00364	0.0027	
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020	<0.00050	
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00333	<0.00250	
Iron, total (T-Fe)	mg/L	-	-	-	0.21	0.523	
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000165	<0.000250	
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0227	0.0127	
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.269	0.259	
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	<0.00250	
Selenium, total (T-Se)	mg/L	0.002	-	-	<u>0.00235</u>	<u>0.00252</u>	
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020	<0.000050	
Thallium, total (T-Tl)	mg/L	-	-	-	0.00008	0.000086	
Uranium, total (T-U)	mg/L	-	-	-	0.0103	0.00982	
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00359	0.00449	
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0060	<0.0150	
Hexavalent Chromium, total	mg/L	0.0015	-	-	<u>0.00234</u>	0.00146	
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000450	<0.0000450	
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00020	<0.00050	
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00253	0.00174	
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.05	<0.050	
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100	<0.000250	
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00969	0.00778	
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00250	
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.851	0.558	
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.0032	0.00416	
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0027	<0.0050	
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:
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 (August 16 – 22).

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 27G and 27H 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
					Influent
					SP-E-IN
		Long Term	Short Term		VA26C2414-001 2026-08-14 11:43
General Parameters					
pH - Field	pH units	- ²	-	5.5 - 9.0	7.37
Specific Conductivity - Field	µS/cm	-	-	-	3440
Temperature - Field	°C	-	-	-	18.7
Salinity - Field	ppt	-	-	-	1.8
Turbidity - Field	NTU	-	-	-	18.73
TSS	mg/L	-	-	25 or 75 ⁵	9.4
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.03
Total Hardness	mg/L	-	-	-	121
Dissolved Hardness	mg/L	-	-	-	127
Anions and Nutrients					
Sulphate	mg/L	-	-	-	1280
Chloride	mg/L	-	-	-	20.3
Fluoride	mg/L	-	1.5	-	<0.400
Ammonia (N-NH ₃)	mg/L	8.7 ³	58 ³	-	0.108
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0531
Nitrate (N-NO ₃)	mg/L	3.7	339	-	0.492
Total Organic Carbon (TOC)	mg/L	-	-	-	6.11
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	5.75
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	1.5
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00253
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00326
Barium, total (T-Ba)	mg/L	-	-	-	0.0319
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000100
Boron, total (T-B)	mg/L	1.2	-	-	0.309
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.000065
Chromium, total (T-Cr)	mg/L	-	-	-	0.00343
Cobalt, total (T-Co)	mg/L	-	-	-	0.00054
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00378
Iron, total (T-Fe)	mg/L	-	-	-	1.16
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000485
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0776
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.249
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00250
Selenium, total (T-Se)	mg/L	0.002	-	-	<u>0.00237</u>
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000050
Thallium, total (T-Tl)	mg/L	-	-	-	0.000075
Uranium, total (T-U)	mg/L	-	-	-	0.00852
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00585
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0150
Hexavalent Chromium, total	mg/L	0.0015	-	-	<u>0.00215</u>
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000500
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00020
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00204
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.020
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0254
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.913
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00366
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0020
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:
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 (August 16 – 22).
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 27G and 27H 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 (August 16 – 22).

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	2026-08-16 15:38	24.1	12.48	1.81	6.53	7.9	7.9	3446	No
SP-E-IN	Influent	2026-08-17 15:15	26.6	12.37	1.86	6.95	8.2	8.2	3557	No
SP-E-IN	Influent	2026-08-18 15:30	25.6	10.08	1.75	4.82	6.6	7.1	3343	No
SP-E-IN	Influent	2026-08-19 14:28	24.6	9.73	1.83	6.29	7.7	7.6	3490	No
SP-E-IN	Influent	2026-08-20 11:27	24.2	8.73	1.84	7.83	8.8	7.6	3502	No
SP-E-IN	Influent	2026-08-21 10:45	24.1	<u>7.90</u>	1.71	5.85	7.4	7.6	3274	No
SP-E-IN	Influent	2026-08-22 15:33	24.9	9.18	1.79	8.55	9.4	7.9	3415	No
WWTP-E-IN	Influent	2026-08-18 12:18	24.6	10.05	1.73	1.30	4.0	7.2	3308	No
WWTP-E-IN	Influent	2026-08-20 11:14	23.8	10.30	1.82	4.19	6.1	8.4	3468	No
Effluent ⁵										
WWTP-E-OUT	Effluent	2026-08-18 15:00	23.6	<u>6.01</u>	1.78	2.15	4.6	6.4	3393	No
WWTP-E-OUT	Effluent	2026-08-20 11:22	23.0	<u>3.39</u>	1.87	2.92	5.2	6.3	3550	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (August 16 – 22). 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 August 16, 17, 19, 21 and 22 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 (August 16 – 22), 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 August 16, 17, 19, 21 and 22 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 (August 16 – 22).

	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				
2026-08-16	0	0	32	0
2026-08-17	0	0	0	0
2026-08-18	0	0	147	0
2026-08-19	0	0	0	0
2026-08-20	0	0	71	0
2026-08-21	0	0	0	0
2026-08-22	0	0	0	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 W2700T2-OUT
					Influent	Effluent
					2700GPM-IN	W2700T2-OUT
					VA26C2168-002	VA26C2168-003
		Long Term	Short Term		2026-08-13 10:09	2026-08-13 10:00
General Parameters						
pH - Field	pH units	- ²	-	5.5 - 9.0	8.62	7.83
Specific Conductivity - Field	µS/cm	-	-	-	1558	2010
Temperature - Field	°C	-	-	-	23.5	21.1
Salinity - Field	ppt	-	-	-	0.78	1.03
Turbidity - Field	NTU	-	-	-	6.28	4.21
TSS	mg/L	-	-	25 or 75 ⁵		
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.17	<u>7.41</u>
Total Hardness	mg/L	-	-	-	71.7	94.2
Dissolved Hardness	mg/L	-	-	-	72.5	93.3
Anions and Nutrients						
Sulphate	mg/L	-	-	-	493	686
Chloride	mg/L	-	-	-	13.7	16.7
Fluoride	mg/L	-	1.5	-	0.209	0.243
Ammonia (N-NH ₃)	mg/L	0.27-1.5 ³	1.8-10 ³	-	0.0248	0.133
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0106	0.0441
Nitrate (N-NO ₃)	mg/L	3.7	339	-	0.242	0.793
Total Organic Carbon (TOC)	mg/L	-	-	-	4.15	3.68
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.96	3.33
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.309	0.0974
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00132	0.00158
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00182	0.00185
Barium, total (T-Ba)	mg/L	-	-	-	0.0106	0.00576
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.037	0.053
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000300	<0.0000300
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050	0.00057
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00156	0.00109
Iron, total (T-Fe)	mg/L	-	-	-	0.103	0.078
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000192	0.000109
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0121	0.0173
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.103	0.128
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000547	0.000949
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000043	0.000045
Uranium, total (T-U)	mg/L	-	-	-	0.0087	0.0106
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00201	0.00222
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0041	0.004
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000200	<0.0000250
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00010	<0.00010
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00126	0.00095
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.032	0.058
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000061	0.000061
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0059	0.0134
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.19	0.272
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00179	0.0021
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0015	0.0032
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 (August 16 – 22).

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 27G and 27H 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 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
					Influent
		SP-W-IN			
					VA26C2168-001
					2026-08-13 10:27
General Parameters					
pH - Field	pH units	- ²	-	5.5 - 9.0	8.3
Specific Conductivity - Field	µS/cm	-	-	-	1887
Temperature - Field	°C	-	-	-	23.4
Salinity - Field	ppt	-	-	-	0.96
Turbidity - Field	NTU	-	-	-	10.19
TSS	mg/L	-	-	25 or 75 ⁵	10.3
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.94
Total Hardness	mg/L	-	-	-	89.2
Dissolved Hardness	mg/L	-	-	-	85.3
Anions and Nutrients					
Sulphate	mg/L	-	-	-	617
Chloride	mg/L	-	-	-	15.6
Fluoride	mg/L	-	1.5	-	0.233
Ammonia (N-NH ₃)	mg/L	0.62 ³	4.2 ³	-	0.0864
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0353
Nitrate (N-NO ₃)	mg/L	3.7	339	-	0.608
Total Organic Carbon (TOC)	mg/L	-	-	-	4.35
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.78
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.488
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00152
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00212
Barium, total (T-Ba)	mg/L	-	-	-	0.00953
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.049
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000400
Chromium, total (T-Cr)	mg/L	-	-	-	0.0007
Cobalt, total (T-Co)	mg/L	-	-	-	0.00019
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00151
Iron, total (T-Fe)	mg/L	-	-	-	0.384
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000264
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0396
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.123
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.00074
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000045
Uranium, total (T-U)	mg/L	-	-	-	0.0105
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00254
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0045
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000200
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00010
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00093
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.04
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0161
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.243
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00199
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.001
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 (August 16 – 22).

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 27G and 27H 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 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	0.0014 - 0.0059 ^{3,4}
Station	Water Type	Sample ID	Lab ID	Sampling Date		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26C0082-001	2026-07-28	<u>0.000121</u>	<u>0.00677</u>
2700GPM-IN	Influent	W2700-IN	VA26C0082-002	2026-07-28	0.000096	0.00565
Effluent						
SP-W-OUT	Effluent	SP-W-OUT	VA26C0082-005	2026-07-28	0.000057	0.00079
W2700T1-OUT	Effluent	W2700T1-OUT	VA26C0082-003	2026-07-28	0.000064	0.00107
W2700T4-OUT	Effluent	W2700T4-OUT	VA26C0082-004	2026-07-28	0.000050	0.00074

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.

Table C-4:
West Catchment 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	Water Type	Sample ID	Lab ID	Sampling Date		
Effluent						
SP-W-OUT	Effluent	SP-W-OUT	VA26C0083-005	2026-07-28	0.000888	1.22
SP-W-OUT	Effluent	SP-W-OUT -DUP	VA26C0083-009	2026-07-28	0.0398	1.09

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 C-5:
West Catchment Field Measurements Collected During the Monitoring Period (August 16 – 22).

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	2026-08-16 10:21	22.1	8.82	0.82	7.53	8.6	8.2	1629	No
SP-W-IN	Influent	2026-08-17 10:21	22.3	9.58	0.82	7.30	8.4	8.3	1629	No
SP-W-IN	Influent	2026-08-18 11:01	22.0	9.2	0.77	5.21	6.9	8.2	1523	No
SP-W-IN	Influent	2026-08-19 14:14	23.5	9.44	0.75	51.58	41.5	8.5	1490	No
SP-W-IN	Influent	2026-08-20 12:16	25.7	9.37	0.70	98.97	76.8	8.5	1411	No
SP-W-IN	Influent	2026-08-21 12:37	27.0	8.51	0.65	92.07	71.7	8.1	1307	No
SP-W-IN	Influent	2026-08-22 10:49	22.6	8.1	0.64	80.01	62.7	8.3	1278	No
2700GPM-IN	Influent	2026-08-16 10:13	23.0	9.14	0.83	2.48	4.8	8.6	1648	No
2700GPM-IN	Influent	2026-08-17 10:52	22.7	9.09	0.84	2.00	4.5	8.5	1663	No
2700GPM-IN	Influent	2026-08-18 10:46	23.3	9.16	0.76	2.66	5.0	8.4	1516	No
Effluent ⁵										
-	-	-	-	-	-	-	-	-	-	-

Notes:
West catchment influents 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 (August 16 – 22); therefore, daily field parameters were not collected from station SP-W-OUT August 16 – 22.
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 (August 16 – 22).**

	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					
2026-08-16	0	77	0	0	0
2026-08-17	0	138	0	0	0
2026-08-18	0	73	0	0	0
2026-08-19	0	118	0	0	0
2026-08-20	0	0	0	0	0
2026-08-21	0	0	0	0	0
2026-08-22	0	0	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.

² As noted in PE-111578 Condition 2.2.4, the annual average authorized discharge rate from the West Sedimentation Pond to Howe Sound was set to 310 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.

³ Clarified effluent from the 2700GPM TSS settling system is recirculated to the West Sedimentation Pond, discharged to Howe Sound or reclaimed for construction purposes based on operational considerations. Daily discharge volumes from station 2700GPM-OUT are a sum of all active treatment trains.

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

Table D-1:
Summary of Marine Water Quality Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		Station IDZ-W1	Station IDZ-W1	Station IDZ-W1	Station IDZ-W1	Station IDZ-W2	Station IDZ-W2	Station IDZ-W2
				0.5 m Below Surface	0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor	0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				IDZ-W1-0.5	IDZ-W1-0.5-DUP	IDZ-W1-2m	IDZ-W1-SF	IDZ-W2-0.5	IDZ-W2-2m	IDZ-W2-SF
				VA26C0086-001	VA26C0086-010	VA26C0086-002	VA26C0086-003	VA26C0086-004	VA26C0086-005	VA26C0086-006
		Long Term	Short Term	2026-07-28 14:06	2026-07-28 14:06	2026-07-28 14:05	2026-07-28 14:01	2026-07-28 11:43	2026-07-28 11:42	2026-07-28 11:37
General Parameters										
pH - Field	pH units	7.0 - 8.7	-	7.99	7.99	8.10	7.47	8.15	8.17	7.40
Specific Conductivity - Field	µS/cm	-	-	3107	-	8230	46785	3585	20322	48046
Temperature - Field	°C	-	-	12.2	-	12.7	10.1	12.3	14.5	9.4
Salinity - Field	ppt	Narrative ²	-	1.63	-	4.6	30.23	1.9	12.18	31.09
Turbidity - Field	NTU	Narrative ²	Narrative ²	21.9	21.9	19.57	1.47	21.87	6.97	1.45
TSS	mg/L	Narrative ²	Narrative ²	9.9	10.3	19.7	3.3	21.8	18.1	2.3
Dissolved Oxygen - Field	mg/L	>=8	-	10.89	10.89	10.5	<u>6.15</u>	10.64	9.84	<u>5.44</u>
Total Hardness	mg/L	-	-	196	188	399	5830	419	1240	6180
Dissolved Hardness	mg/L	-	-	301	289	374	5630	373	1240	6000
Anions and Nutrients										
Sulphate	mg/L	-	-	53	55	121	2050	128	463	2210
Chloride	mg/L	-	-	577	598	1140	15300	1210	3730	16400
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH ₃)	mg/L	0.23-13 ³	1.5-85 ³	<0.0050	<0.0050	<0.0050	<0.0050	0.0066	0.0245	<0.0050
Nitrite (N-NO ₂)	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate (N-NO ₃)	mg/L	3.7	339	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	2.95	3.14	1.32	1.43	1.37	1.65	1.00
Dissolved Organic Carbon (DOC)	mg/L	-	-	2.55	2.61	1.08	1.39	1.1	1.59	1.22
Total Metals										
Aluminum, total (T-Al)	mg/L	-	-	0.664	0.52	1.03	0.0241	1.11	0.698	0.0231
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	<0.00040	<0.00040	0.00152	<0.00040	0.00053	0.0016
Barium, total (T-Ba)	mg/L	-	-	0.0107	0.0111	0.0242	0.0105	0.024	0.0185	0.0101
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	<0.30	0.35	0.32	<u>3.71</u>	0.37	0.87	<u>4.12</u>
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	<0.000020	<0.000020	0.000066	<0.000020	<0.000020	0.000085
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	0.00058	<0.00050	0.00062	0.00053	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000242	0.000246	0.00046	0.000107	0.000465	0.000338	0.000117
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00114	0.00108	<u>0.00219</u>	0.00054	<u>0.00228</u>	0.00199	0.00059
Iron, total (T-Fe)	mg/L	-	-	0.403	0.384	0.821	0.023	0.867	0.579	0.025
Lead, total (T-Pb)	mg/L	0.002	0.14	0.00012	0.00013	0.00018	<0.00010	0.00018	0.00014	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.0139	0.0136	0.0284	0.00443	0.0291	0.0214	0.00338
Molybdenum, total (T-Mo)	mg/L	-	-	0.00068	0.00069	0.00095	0.0083	0.00093	0.00209	0.00864
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000302	0.000355	0.000242	0.00212	0.000247	0.000619	0.00219
Vanadium, total (T-V)	mg/L	0.005	-	0.00125	0.00124	0.0025	0.00138	0.00261	0.00193	0.0015
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	0.0036	<0.0030	0.0035	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150
Dissolved Metals										
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.000020	<0.000020	<0.000020	0.000048	<0.000020	<0.000020	0.000093
Cobalt, dissolved (D-Co)	mg/L	-	-	<0.000050	<0.000050	<0.000050	0.000054	<0.000050	<0.000050	0.000074
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0006	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.01	0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00508	0.00497	0.0061	0.00382	0.00577	0.00546	0.00244
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.338	0.315	0.434	5.63	0.419	1.34	6.25
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	0.0005	0.00128	<0.00050	0.00062	0.00143
Zinc, dissolved (D-Zn)	mg/L	-	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)										
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

Notes:

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.

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

² Induced guidelines for change from background conditions arising from discharges to the aquatic environment. Salinity WQG was not evaluated. The water quality data presented in the table were collected when the site was discharging for <24 hours, therefore the short-term turbidity and TSS WQGs were evaluated.

³ The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26G and 26H 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.

Table D-2:
Summary of Marine Water Quality Results Received at the Time of Reporting

Parameter	Unit	Lowest Applicable Guideline ¹		Reference Station WQR2	Reference Station WQR2	Reference Station WQR2
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				WQR2-0.5	WQR2-2m	WQR2-SF
		VA26C0086-007	VA26C0086-008	VA26C0086-009		
		Long Term	Short Term	2026-07-28 10:11	2026-07-28 10:10	2026-07-28 10:07
General Parameters						
pH - Field	pH units	7.0 - 8.7	-	8.01	8.14	7.45
Specific Conductivity - Field	µS/cm	-	-	3927	9980	45448
Temperature - Field	°C	-	-	11.8	12.5	11.2
Salinity - Field	ppt	Narrative ²	-	2.09	5.65	29.33
Turbidity - Field	NTU	Narrative ²	Narrative ²	31.15	25.69	1.62
TSS	mg/L	Narrative ²	Narrative ²	37.1	24.4	3.5
Dissolved Oxygen - Field	mg/L	>=8	-	10.93	10.72	<u>5.99</u>
Total Hardness	mg/L	-	-	333	2060	5810
Dissolved Hardness	mg/L	-	-	302	1490	5800
Anions and Nutrients						
Sulphate	mg/L	-	-	99	638	1960
Chloride	mg/L	-	-	1010	5070	14500
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0
Ammonia (N-NH ₃)	mg/L	2.0-8.7 ³	13-58 ³	<0.0050	0.0087	0.0086
Nitrite (N-NO ₂)	mg/L	-	-	<0.10	<0.10	<0.10
Nitrate (N-NO ₃)	mg/L	3.7	339	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	1.11	1.57	1.3
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.07	1.02	1.05
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	1.43	0.478	0.044
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	0.00069	0.0015
Barium, total (T-Ba)	mg/L	-	-	0.0271	0.0192	0.0108
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	0.31	<u>1.50</u>	<u>3.58</u>
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000027	0.000088
Chromium, total (T-Cr)	mg/L	-	-	0.00072	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.00058	0.000264	0.000106
Copper, total (T-Cu)	mg/L	0.002	0.003	<u>0.00240</u>	0.00144	0.00067
Iron, total (T-Fe)	mg/L	-	-	1.05	0.385	0.035
Lead, total (T-Pb)	mg/L	0.002	0.14	0.00024	0.00029	0.00072
Manganese, total (T-Mn)	mg/L	0.1	-	0.0341	0.0161	0.00457
Molybdenum, total (T-Mo)	mg/L	-	-	0.0007	0.00321	0.0084
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000174	0.000896	0.00196
Vanadium, total (T-V)	mg/L	0.005	-	0.00305	0.00175	0.00153
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.000020	<0.000020	0.00008
Cobalt, dissolved (D-Co)	mg/L	-	-	<0.000050	<0.000050	0.00008
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	0.00012	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00577	0.00565	0.00347
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.366	1.68	5.94
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.00066	0.00142
Zinc, dissolved (D-Zn)	mg/L	-	-	0.007	<0.0010	<0.0010
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	0.11	-	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<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	0.215	-	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<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:
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.

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

² Induced guidelines for change from background conditions arising from discharges to the aquatic environment. Salinity WQG was not evaluated. The water quality data presented in the table are marine reference stations and represent background conditions, therefore the turbidity and TSS WQGs were not evaluated.

³ The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26G and 26H 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.

Table D-3:
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	0.014-0.019 ^{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	VA26C0086-001	2026-07-28	0.000035	<0.0050
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5-DUP	VA26C0086-010	2026-07-28	0.000026	<0.0050
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26C0086-002	2026-07-28	0.000031	<0.0050
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26C0086-003	2026-07-28	0.000027	<0.0050
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26C0086-004	2026-07-28	0.000034	<0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26C0086-005	2026-07-28	0.000031	<0.0050
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26C0086-006	2026-07-28	<0.000020	<0.0050
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26C0086-007	2026-07-28	0.000025	<0.0050
WQR2	2 m Below Surface	WQR2-2m	VA26C0086-008	2026-07-28	<0.000020	<0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA26C0086-009	2026-07-28	0.000024	<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-4:
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	VA26C0087-001	2026-07-28	0.0370	1.16
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5-DUP	VA26C0087-010	2026-07-28	0.00231	1.76
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26C0087-002	2026-07-28	0.00107	1.09
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26C0087-003	2026-07-28	0	1.06
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26C0087-004	2026-07-28	0	0.918
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26C0087-005	2026-07-28	0.000674	1.48
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26C0087-006	2026-07-28	0.000778	1.21
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26C0087-007	2026-07-28	0	1.12
WQR2	2 m Below Surface	WQR2-2m	VA26C0087-008	2026-07-28	0.00673	1.96
WQR2	2 m Above Seafloor	WQR2-SF	VA26C0087-009	2026-07-28	0	1.49

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.