



TECHNICAL MEMORANDUM

To: Ian McAllister, Ashleigh Crompton, Mike Champion,
Mark Zan and Ryan Schucroft (Woodfibre LNG) **Date:** 15 May 2026

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

Subject: PE-111578 Weekly Discharge and Compliance Report #113 for May 3 – 9

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 #113) was prepared by Lorax and summarizes WDA monitoring conducted for the period of May 3 – 9. 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 #113 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 G 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

Warm and sunny weather conditions were observed during the May 3 – 9 monitoring period, with no precipitation. 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
2026-05-03	0	23.3	11.4	Sunny
2026-05-04	0	23.9	12.3	Sunny
2026-05-05	0	20.3	11.2	Sunny
2026-05-06	0	15.0	9.5	Mix of sun and cloud
2026-05-07	0	18.7	10.5	Mix of sun and cloud
2026-05-08	0	17.3	11.1	Sunny
2026-05-09	0	20.6	9.2	Sunny

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

From May 3 – 9, 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 May 3 – 9 (Appendix B, Table B-2).

Routine operation of the East WWTP continued during the monitoring period (May 3 – 9). Concrete contact water and water from the 6443 Sump and Wash Tank 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 (May 3 – 9) except on May 5. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-2).

From May 3 – 9, the West Sedimentation Pond received water from the Area 4100 Sump as well as recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system on May 3, 5, 8 and 9 and recirculated back to the pond. West Sedimentation Pond effluent was not discharged to Howe Sound during the monitoring period May 3 – 9. A total of 141 m³ of clarified effluent was reclaimed for construction use during the monitoring period May 3 – 9. 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-5).

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 SW-01, SW-02, SW-03, SW-04, SW-07, IDZ-W1, IDZ-W2, WQR2, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and W2700T1-OUT during the monitoring period (May 3 – 9). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (May 3 – 9) 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. The PE-111578 spring high-frequency (5-in-30) monitoring requirements for receiving environment stations were met. Daily assessments at OUT-01 and OUT-06 during the spring 5-in-30 monitoring period (March 24 – May 6) confirmed that the outfalls were dry with insufficient water level for sampling, except on April 15 at OUT-01. Consequently, no samples were collected at OUT-06 and only one sample was collected at OUT-01 during this period (March 24 – May 6).

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 (May 3 – 9). Daily field measurements for East WWTP influent and effluent stations (WWTP-E-IN and WWTP-E-OUT, respectively) were not collected on May 3, 5 and 8 as the East WWTP 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 (May 3 – 9).

**Table 2:
Summary of PE-111578 Monitoring Samples Collected May 3 – 9.**

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
May 3, 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
	SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M ₅
	SW-03	Mill Creek Estuary		
	SW-07	Upstream Mill Creek (at the diversion inlet)		
May 4, 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
	SW-01	Lower Reach of Woodfibre Creek (near the mouth)	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M ₅
	SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
May 5, 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
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
May 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
	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			
May 7, 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
May 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
May 9, 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

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 #113) are listed below in Table 3, with additional field measurements presented in Table B-1 (Appendix B) and Table C-4 (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:

- SW-02, SW-03 and SW-07 collected April 15 (dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected April 15 (dioxins and furans);
- SW-01 and SW-04 collected April 16 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected April 16 (dioxins and furans);
- SW-02, SW-03 and SW-07 collected April 21 (dioxins and furans);
- SW-01 and SW-04 collected April 22 (dioxins and furans);
- SW-02, SW-03 and SW-07 collected April 27 (dioxins and furans);
- SW-01 and SW-04 collected April 28 (dioxins and furans);
- SW-02, SW-03 and SW-07 collected May 3 (field and all analytical parameters);
- SW-01 and SW-04 collected May 4 (field and all analytical parameters);
- IDZ-W1, IDZ-W2 and WQR2 collected May 6 (field and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected May 7 (all analytical parameters).

**Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #113.**

Sample	Description	Sampling Date	Parameters Reported
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	April 9, 2026	Dioxins and Furans.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	April 10, 2026	Dioxins and Furans.
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		
OUT-02	Non-contact water diversion ditch outlet	April 13, 2026	Total Mercury and Methylmercury.
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	April 21, 2026	Total Mercury and Methylmercury.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	April 22, 2026	Total Mercury and Methylmercury.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	April 27, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs and Methylmercury.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	April 28, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs and Methylmercury.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	May 5, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium 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		

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 July 2025 and the analytical results were presented in Report #82.

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 May 3 – 9 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected May 3 – 9 met MDOs except for dissolved oxygen on May 4, 6, and 7 (Appendix B, Table B-1). 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.

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from May 3 – 9 (Section 1.2; Table B-2 of Appendix B). Therefore, water quality samples and field measurements were not collected at the SP-E-OUT discharge location.

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 (May 3 – 9). 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 May 3 – 9, as well as analytical samples collected May 5 (stations SP-W-IN, 2700GPM-IN and W2700T1-OUT; Appendix C, Table C-1 through Table C-4).

3.5 Non-Contact Water Diversion Ditch Outlets

Total mercury and methylmercury analytical results were available at the time of reporting for the non-contact water diversion ditch outlet sample collected at station OUT-02 on April 13 (as discussed in Reports #110). The methylmercury concentration was <0.000020 $\mu\text{g/L}$ in the sample collected at OUT-02 and met the WQG. The corresponding total mercury results met the WQG. Results are tabulated in Appendix D, Table D-1.

3.6 Freshwater and Estuarine Water Receiving Environment

Analytical results were available at the time of reporting for freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on April 27 as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on April 28 (as discussed in Report #112). The analytical results, field parameters, and WQGs are summarized in Appendix E (freshwater) and Appendix F (estuarine water).

Parameter concentrations met WQGs except fluoride and total aluminum in some of the freshwater samples (Appendix E, Table E-1). Fluoride was above the long-term WQG in the sample collected from East Creek on April 28 (0.363 mg/L). Total aluminum was above the long-term WQG in samples collected from the background station on Mill Creek on April 27 (0.0705 mg/L) as well as in samples collected from Woodfibre and East Creek on April 28 (0.156 and 0.813 mg/L, respectively).

The total aluminum concentration measured in the downstream station on Woodfibre Creek (station SW-01) on April 28 (0.156 mg/L) was within the range observed in the pre-construction baseline monitoring program for Woodfibre Creek (0.0379 to 0.294 mg/L) and within ranges observed at the background station for Woodfibre Creek (0.0428 to 0.250 mg/L).

The fluoride and total aluminum concentrations measured in East Creek (SW-04) on April 28 (0.363 and 0.813 mg/L, respectively) were above the maximum values observed in the pre-construction baseline monitoring program (<0.1 and 0.264 mg/L, respectively) and above ranges observed at the background station for East Creek (<0.020 to 0.028 mg/L and 0.0299 to 0.411 mg/L, respectively; Table 4). The corresponding dissolved aluminum concentration (0.723 mg/L) and non-detect TSS concentration (<3.0 mg/L) indicate that aluminum is predominantly in the dissolved form of the metal. Potential sources of fluoride and total aluminum to East Creek are being reviewed. This item is tracked in Table 5.

Table 4:
Summary of Parameters Exceeding WQGs and Above Baseline Ranges for East Creek Station SW-04 for Analytical Results Available at the Time of Reporting

Parameter	Units	WQG ¹	N	N >WQG	Commentary
Fluoride	mg/L	0.12	1	1	Fluoride measured in East Creek (SW-04) on April 28 (0.363 mg/L) was 3.0 times greater than the WQG. The fluoride concentration was 3.6 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (<0.1 mg/L).
Total Aluminum	mg/L	0.622	1	1	Total aluminum measured in East Creek (SW-04) on April 28 (0.813 mg/L) was 1.3 times greater than the WQG. The total aluminum concentration was 3.1 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (0.264 mg/L).

N = number of samples.

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

Total mercury and methylmercury analytical results were available at the time of reporting for freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on April 21 and 27 as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on April 22 and 28 (as discussed in Reports #111 and #112). Methylmercury concentrations were <0.000020 µg/L in all samples and met the WQG. The corresponding total mercury results met the WQG. Results are tabulated in Appendix E, Table E-2 (freshwater) and Appendix F, Table F-2 (estuarine water).

Dioxin and furans results were available at the time of reporting for freshwater samples collected near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on

April 9 (as discussed in Report #109). The lower bound PCDD/F TEQ concentrations in these samples were 0 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 1.56 to 1.73 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 pg/L and 0 to 5.25 pg/L, respectively, for Woodfibre and East Creek) or within ranges observed at background stations (0 to 0.163 pg/L and 0.463 to 2.77 pg/L, respectively, for Woodfibre and East Creek). Results are tabulated in Appendix E, Table E-3.

3.7 Marine Water Receiving Environment

Dioxin and furans analytical 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 April 10 (stations IDZ-E1, IDZ-E2 and WQR1), as discussed in Report #109. For all samples, the lower bound PCDD/F TEQ concentrations were 0 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 1.48 to 3.09 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) or 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 G, Table G-1.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (Table 5). 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 5. Any items flagged for follow-up are carried forward to future reports until they are closed.

**Table 5:
Weekly Report QC Evaluations and Ongoing Items**

QC Procedure	Observation	Investigation/Resolution
Reporting Period (May 3 – 9, Report #113)		
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. The lower reach of East Creek was temporarily diverted through Outfall 11 from September 17, 2024 to November 18, 2025. As November 19, 2025, East Creek flows have been returned to the lower Channel that discharges to Howe Sound through the Outfall 12 culverts (OUT-12). The culvert at OUT-01 is being replaced and diversion water flows to OUT-01 have been redirected to OUT-02. Outfall 11 (OUT-11) has been constructed but is not in use. All monitoring stations have been established except at SP-E-IN-1, SP-E-IN-2, SP-W-IN-1 and SP- W- IN- 2 where substitute stations are established in lieu of those listed in PE-111578 (refer to Section 2). This item remains open.
Report #113: Potential Project Influence	Fluoride and total aluminum at East Creek above WQGs and the baseline concentration ranges.	At the East Creek station (SW-04) on April 28, fluoride and total aluminum concentrations (0.363 and 0.813 mg/L) were 3.0 and 1.3 times greater than the WQGs, and 3.6 and 3.1 times greater than the corresponding pre-construction baseline maxima (<0.100 and 0.264 mg/L), respectively. Potential influences to East Creek water quality at station SW-04 are being reviewed. This item remains open.
Report #113: Pending Data	Analytical results not reported.	Field records and analytical results for receiving environment samples collected May 3, 4 and 6 as well as all analytical parameters for contact and treated water samples collected May 7 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #109: Pending Data	Analytical results not reported.	Previously pending dioxins and furans results for receiving environment samples collected April 9 and 10 are included in Report #113. This item is closed.
Report #110: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for non-contact water diversion ditch samples collected April 13 are included in Report #113. Dioxins and furans results for receiving environment samples collected April 15 and 16 are pending and will be included in future weekly reports when available. This item remains open.
Report #111: Potential Project Influence	Total aluminum at non-contact water diversion ditch outlet station OUT-02 above the WQG and the baseline concentration ranges.	At the non-contact water diversion ditch outlet station OUT-02 on April 13, the total aluminum concentration (0.550 mg/L) was 3.2 times greater than the WQG and 1.3 times greater than the corresponding pre-construction baseline maxima (0.433 mg/L). Potential influences to water quality at the non-contact water diversion ditch outlet station OUT-02 were investigated. There was no evidence of bypass of contact water into the catchment of the non-contact water diversion ditch. The subsequent sample collected at OUT-02 on April 19 was within the baseline range for total aluminum in non-contact water. There is no evidence of ongoing influence of contact water in the non-contact water ditch. This item is closed.
Report #111: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury for receiving environment samples collected April 21 and 22 are included in Report #113. Dioxins and furans results for these samples are pending and will be included in future weekly reports when available. This item remains open.
Report #112: WWTP Performance Evaluation	Total mercury and methylmercury above the MDO.	The total mercury and methylmercury concentrations in the samples collected at WWTP-E-OUT on April 15, 22 and 27 were above the MDOs (0.0043 to 0.017 µg/L and 0.0001 µg/L, respectively). The WWTP treatment performance for total mercury and methylmercury will continue to be evaluated through May 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #112: Pending Data	Analytical results not reported.	Previously pending field records and analytical results for receiving environment samples collected April 27 and 28 are included in Report #113. Dioxins and furans results for these samples 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

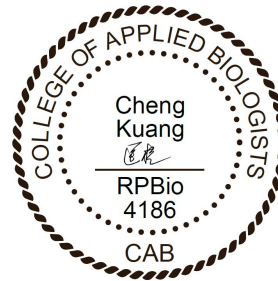
This weekly report is a desktop review by Lorax of the PE-111578 discharge and compliance monitoring program records, reports and results provided by Woodfibre LNG and prime contractor McDermott International and their sub-contractors. The records reviewed and analyzed by Lorax include ALS Environmental 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.



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



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

***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:	May 15, 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

CLIENT:

PROJECT:	Woodfibre LNG Project Construction Phase
TITLE:	Site Layout and Water Quality Monitoring Stations for PE-111578 (May 9, 2026)
PROJECT #:	A825-1
FIGURE:	1

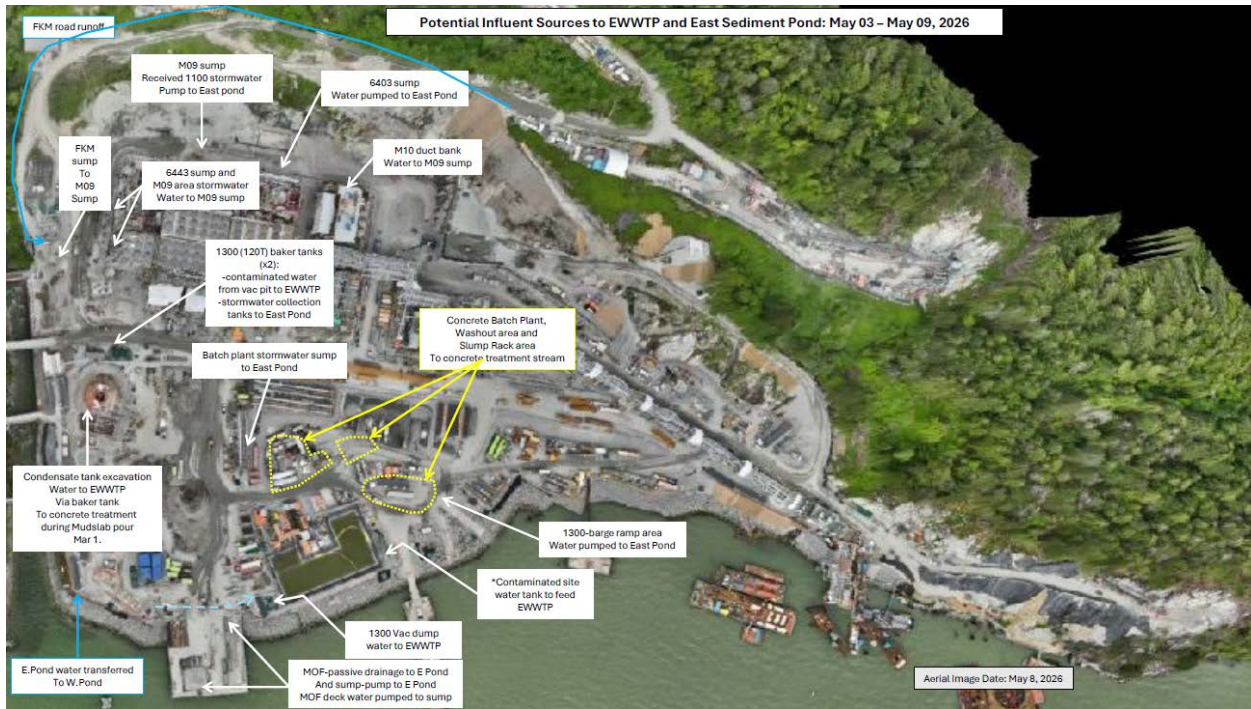


Figure 2: East Catchment contact water management facilities (May 3 – 9).

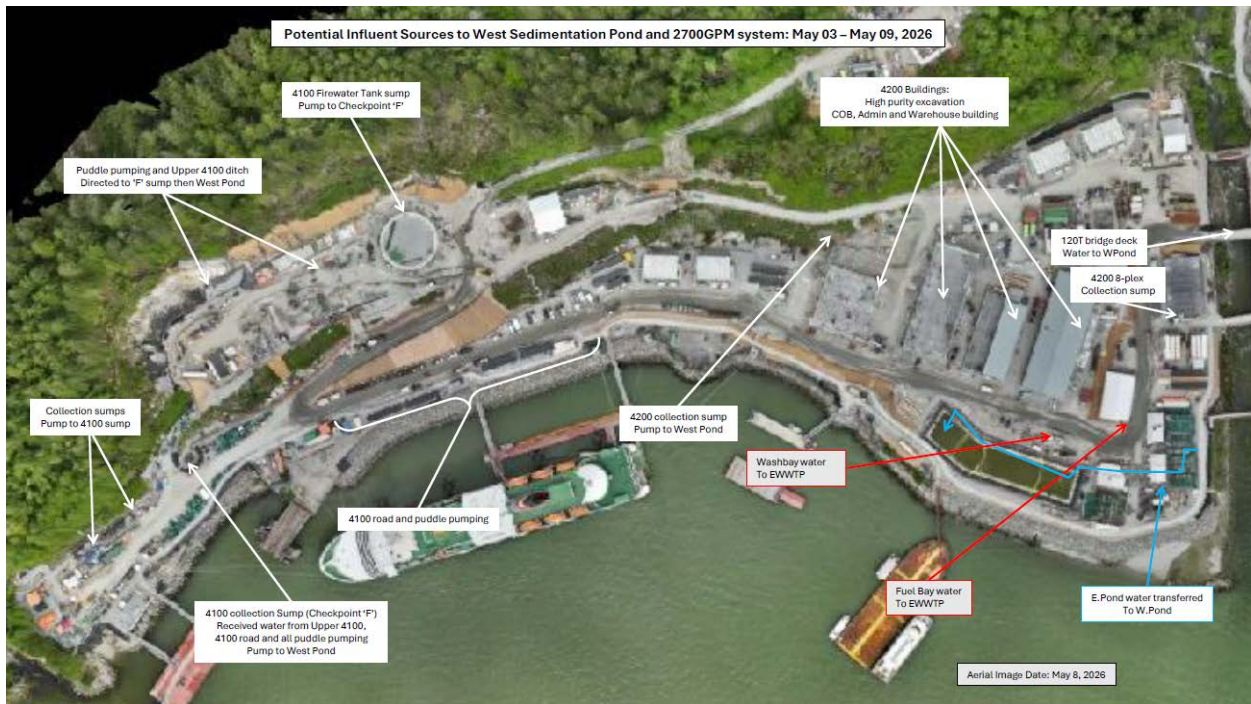


Figure 3: West Catchment contact water management facilities (May 3 – 9).



Figure 4: Aerial view of the East Sedimentation Pond (May 8, 2026). The East WWTP is located on the left side of the pond.

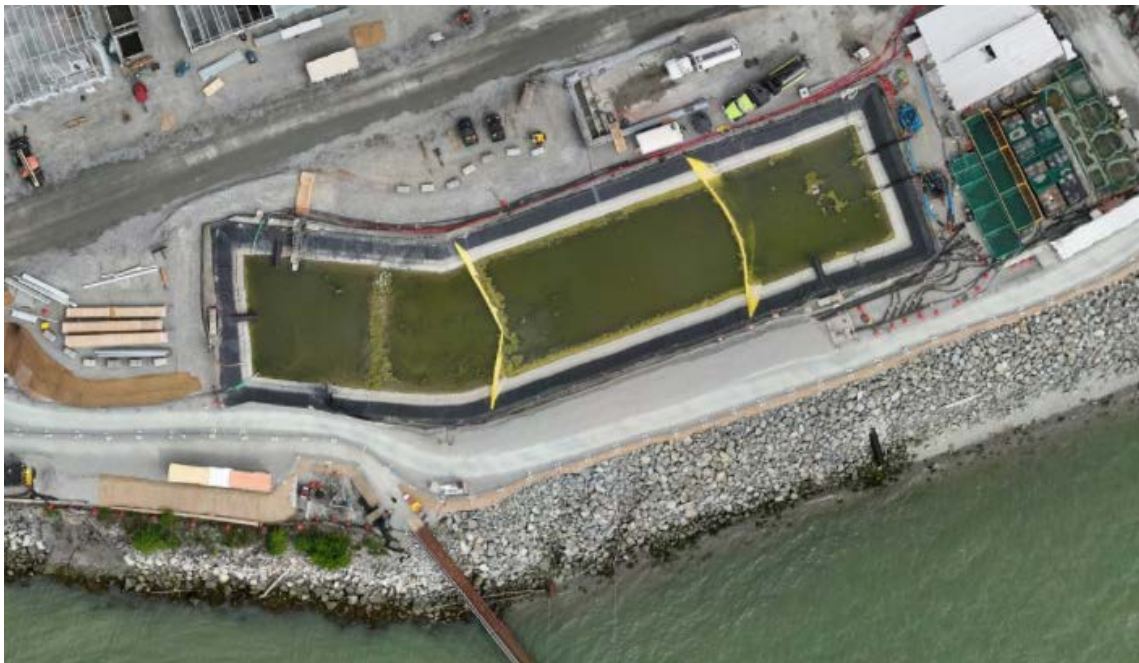


Figure 5: Aerial view of the West Sedimentation Pond (May 8, 2026).

***Appendix B:
East Catchment Monitoring Results***

**Table B-1:
East Catchment Field Measurements Collected During the Monitoring Period (May 3 – 9).**

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 Guideline¹	-	≥8	-	-	- ²	- ²	-	-		
Station ID	Water Type	Date								
Influent⁴										
SP-E-IN	Influent	2026-05-03 13:59	23.3	11.6	0.45	7.99	9.0	7.91	920	Yes
SP-E-IN	Influent	2026-05-04 13:37	22.4	11.53	0.45	9.76	10.3	8.21	919	No
SP-E-IN	Influent	2026-05-05 16:04	25.1	11.63	0.46	16.91	15.6	8.19	933	No
SP-E-IN	Influent	2026-05-06 15:21	19.8	11.69	0.46	15.37	14.5	7.71	921	No
SP-E-IN	Influent	2026-05-07 9:30	18.2	10.71	0.47	6.84	8.1	7.99	941	No
SP-E-IN	Influent	2026-05-08 11:32	19.3	11.66	0.54	9.41	10.0	7.99	1084	No
SP-E-IN	Influent	2026-05-09 9:34	17.7	11.39	0.55	5.89	7.4	7.64	1107	No
WWTP-E-IN	Influent	2026-05-04 13:42	21.8	11.36	0.43	7.01	8.2	8.32	883	No
WWTP-E-IN	Influent	2026-05-06 15:15	20.3	11.46	0.44	6.61	7.9	8.62	886	No
WWTP-E-IN	Influent	2026-05-07 9:05	17.2	6.57	0.32	80.65	63.1	7.84	657	No
WWTP-E-IN	Influent	2026-05-09 10:10	19.5	11.66	0.48	6.27	7.7	8.56	973	No
Effluent⁵										
WWTP-E-OUT	Effluent	2026-05-04 13:40	20.3	5.44	0.48	3.39	5.5	7.06	979	No
WWTP-E-OUT	Effluent	2026-05-06 15:18	19.3	5.10	0.49	5.00	6.7	7.25	997	No
WWTP-E-OUT	Effluent	2026-05-07 9:23	17.9	4.13	0.63	5.00	6.7	7.67	1249	No
WWTP-E-OUT	Effluent	2026-05-07 14:51	18.0	7.95	0.98	3.43	5.6	6.41	1924	No
WWTP-E-OUT	Effluent	2026-05-09 10:25	17.9	8.5	0.78	5.54	7.1	6.88	1548	No

Notes:

The east catchment did not discharge to Howe Sound during the monitoring period (May 3 – 9). 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 $TSS = 0.7458 * [turbidity \text{ as NTU}] + 3$.

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 May 3, 5 and 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 (May 3 – 9), 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 May 3, 5 and 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-2:
East Catchment Daily Discharge Volumes for the Monitoring Period (May 3 – 9).**

	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				
2026-05-03	0	0	54	0
2026-05-04	0	0	65	0
2026-05-05	0	0	0	0
2026-05-06	0	0	32	0
2026-05-07	0	0	147	0
2026-05-08	0	0	41	0
2026-05-09	0	0	170	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 W2700T1-OUT
					Influent	Effluent
		W2700-IN	W2700T1-OUT			
		VA26B0929-002 2026-05-05 10:27	VA26B0929-003 2026-05-05 10:41			
Long Term		Short Term				
General Parameters						
pH - Field	pH units	- ²	-	5.5 - 9.0	8.95	8.33
Specific Conductivity - Field	µS/cm	-	-	-	394	423
Temperature - Field	°C	-	-	-	21.2	20.8
Salinity - Field	ppt	-	-	-	0.2	0.2
Turbidity - Field	NTU	-	-	-	5.94	3.5
TSS	mg/L	-	-	25 or 75 ⁵	6.9	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	10.12	11.07
Total Hardness	mg/L	-	-	-	45.0	40.9
Dissolved Hardness	mg/L	-	-	-	43.2	40.4
Anions and Nutrients						
Sulphate	mg/L	-	-	-	106	106
Chloride	mg/L	-	-	-	3.68	3.59
Fluoride	mg/L	-	1.5	-	0.103	0.1
Ammonia (N-NH ₃)	mg/L	0.18-0.62 ³	1.2-4.2 ³	-	<0.0050	0.0582
Nitrite (N-NO ₂)	mg/L	-	-	-	<0.0010	0.0068
Nitrate (N-NO ₃)	mg/L	3.7	339	-	<0.0050	<0.0050
Total Organic Carbon (TOC)	mg/L	-	-	-	4.74	4.15
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.94	3.88
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.449	0.298
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00059	0.00059
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00099	0.001
Barium, total (T-Ba)	mg/L	-	-	-	0.00449	0.00185
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000150	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00141	0.00144
Iron, total (T-Fe)	mg/L	-	-	-	0.134	0.058
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000267	0.00018
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0105	0.0128
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0283	0.0278
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000112	0.000102
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000027	0.000032
Uranium, total (T-U)	mg/L	-	-	-	0.0045	0.00445
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00135	0.00142
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00099	0.00112
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	0.019
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000062	0.000063
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00135	0.0096
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0604	0.0564
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00115	0.00126
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	0.0012
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 (May 3 - 9).

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 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
		Long Term	Short Term		Influent
					SP-W-IN
General Parameters					
pH - Field	pH units	- ²	-	5.5 - 9.0	7.95
Specific Conductivity - Field	µS/cm	-	-	-	413
Temperature - Field	°C	-	-	-	20.2
Salinity - Field	ppt	-	-	-	0.2
Turbidity - Field	NTU	-	-	-	7.66
TSS	mg/L	-	-	25 or 75 ⁵	4.5
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.4
Total Hardness	mg/L	-	-	-	44.2
Dissolved Hardness	mg/L	-	-	-	43.6
Anions and Nutrients					
Sulphate	mg/L	-	-	-	102
Chloride	mg/L	-	-	-	3.49
Fluoride	mg/L	-	1.5	-	0.1
Ammonia (N-NH ₃)	mg/L	1.5 ³	10 ³	-	0.0789
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0084
Nitrate (N-NO ₃)	mg/L	3.7	339	-	<0.0050
Total Organic Carbon (TOC)	mg/L	-	-	-	4.37
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.91
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.327
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.0006
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00112
Barium, total (T-Ba)	mg/L	-	-	-	0.00308
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00010
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00097
Iron, total (T-Fe)	mg/L	-	-	-	0.14
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000144
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0164
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0271
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000132
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000035
Uranium, total (T-U)	mg/L	-	-	-	0.00404
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00156
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00082
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.028
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00891
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0636
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00137
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010
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 (May 3 - 9).

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 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	0.0016-0.0023 ^{3,4}
Station	Water Type	Sample ID	Lab ID	Sampling Date		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26B0929-001	2026-05-05	0.000078	0.00178
2700GPM-IN	Influent	W2700-IN	VA26B0929-002	2026-05-05	0.000088	0.00187
Effluent						
W2700T1-OUT	Effluent	W2700T1-OUT	VA26B0929-003	2026-05-05	0.000069	0.00112

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-4:
West Catchment Field Measurements Collected During the Monitoring Period (May 3 – 9).**

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								
Influent⁴										
SP-W-IN	Influent	2026-05-03 14:59	22.2	9.53	0.2	67.73	53.5	8.20	415	No
SP-W-IN	Influent	2026-05-04 12:36	22.0	10.05	0.19	12.44	12.3	8.27	405	No
SP-W-IN	Influent	2026-05-05 10:06	20.2	9.40	0.2	7.66	8.7	7.95	413	No
SP-W-IN	Influent	2026-05-06 9:58	18.4	9.77	0	19.84	17.8	7.99	- ⁷	No
SP-W-IN	Influent	2026-05-07 11:42	18.3	10.82	0.18	7.58	8.7	8.51	379	No
SP-W-IN	Influent	2026-05-08 11:11	18.8	10.77	0.18	10.34	10.7	8.74	371	No
SP-W-IN	Influent	2026-05-09 14:32	19.1	9.51	0.22	17.62	16.1	7.97	446	No
2700GPM-IN	Influent	2026-05-03 13:05	21.9	9.50	0.20	4.43	6.3	8.65	425	No
2700GPM-IN	Influent	2026-05-05 10:27	21.2	10.12	0.20	5.94	7.4	8.95	394	No
2700GPM-IN	Influent	2026-05-09 14:37	19.9	9.92	0.22	15.22	14.4	8.71	447	No
Effluent⁵										
-	-	-	-	-	-	-	-	-	-	-

Notes:

West catchment influents for May 3 – 9 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 (May 3 – 9); therefore, daily field parameters were not collected from station SP-W-OUT on May 3 – 9.

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.

⁷ Field specific conductivity measured at SP-W-IN on May 6 (5 µS/cm) is suspected to be erroneous and was removed from the table.

**Table C-5:
West Catchment Daily Discharge Volumes for the Monitoring Period (May 3 – 9).**

	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					
2026-05-03	0	820	141	0	0
2026-05-04	0	0	0	0	0
2026-05-05	0	198	0	0	0
2026-05-06	0	0	0	0	0
2026-05-07	0	0	0	0	0
2026-05-08	0	63	0	0	0
2026-05-09	0	332	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:
Non-Contact Water Diversion Ditch Outlets
Monitoring Results***

**Table D-1:
Non-contact Water Diversion Ditch Outlet 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	0.020 ^{3,4}
Station	Description	Sample ID	Lab ID	Sampling Date		
OUT-02	Non-Contact Water Diversion Ditch Outlet	OUT-02	VA26A8768-001	2026-04-13	<0.000020	0.00637

Notes:

Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of freshwater 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 = 0.026 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.

***Appendix E:
Freshwater Receiving Environment Monitoring
Results***

**Table E-1:
Summary of Freshwater Water Quality Results Received at the Time of Reporting.**

Parameter	Unit	Lowest Applicable Guideline ^{1,2}		Station SW-02	Station SW-07	Station SW-01	Station SW-04
				Mill Creek	Upstream Mill	Woodfibre Creek	East Creek
				Lower Reach	Creek	Lower Reach	Lower Reach
				SW-02	SW-07	SW-01	SW-04
				VA26B0150-001	VA26B0150-003	VA26B0250-001	VA26B0250-002
		Long Term	Short Term	2026-04-27 12:55	2026-04-27 8:37	2026-04-28 9:05	2026-04-28 8:36
General Parameters							
pH - Field	pH units	6.5 - 9.0	-	8.1	7.1	7.5	7.9
Specific Conductivity - Field	µS/cm	-	-	10	10	7	180
Temperature - Field	°C	-	-	6.6	5.5	5.6	11.2
Salinity - Field	ppt	-	-	0	0	0	0
Turbidity - Field	NTU	-	-	0.27	1.99	3.23	3.29
TSS	mg/L	-	-	<3.0	<3.0	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	12.51	12.39	12.7	11.01
Total Hardness	mg/L	-	-	2.80	2.62	2.03	80.1
Dissolved Hardness	mg/L	-	-	2.82	2.62	1.85	73.8
Anions and Nutrients							
Sulphate ²	mg/L	128-309	-	1.19	1.11	<0.30	15.5
Chloride	mg/L	120	600	<0.50	1.13	<0.50	8.5
Fluoride ²	mg/L	0.12	0.400-1.24	<0.020	<0.020	<0.020	0.363
Ammonia (N-NH ₃) ²	mg/L	0.502-4.84	4.84-20.2	<0.0050	<0.0050	<0.0050	<0.0050
Nitrite (N-NO ₂) ²	mg/L	0.0200-0.100	0.06-0.3	<0.0010	<0.0010	<0.0010	0.0049
Nitrate (N-NO ₃)	mg/L	3	32.8	0.0215	0.0247	0.0219	0.172
Total Organic Carbon (TOC)	mg/L	-	-	1.19	1.24	3.1	13.6
Total Inorganic Carbon (DOC)	mg/L	-	-	1.24	1.27	3.15	13.1
Total Metals							
Aluminum, total (T-Al) ²	mg/L	0.0480-0.622	-	0.0692	0.0705	0.156	0.813
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	<0.00010	<0.00010	0.00082
Arsenic, total (T-As)	mg/L	0.005	-	<0.00010	<0.00010	<0.00010	0.00148
Barium, total (T-Ba)	mg/L	1	-	0.00181	0.00157	0.00146	0.00796
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010	<0.010	<0.010	0.011
Cadmium, total (T-Cd) ²	mg/L	0.000036-0.00013	0.00011-0.0017	<0.0000050	0.0000066	<0.0000050	<0.0000200
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	0.00311
Cobalt, total (T-Co) ²	mg/L	0.000389-0.000930	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	-	-	0.00084	<0.00050	<0.00050	0.00136
Iron, total (T-Fe)	mg/L	0.3	1	<0.010	<0.010	0.038	0.214
Lead, total (T-Pb)	mg/L	-	-	<0.000050	<0.000050	0.000062	0.000066
Manganese, total (T-Mn)	mg/L	-	-	0.00046	0.00036	0.00091	0.0165
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000351	0.000306	0.000184	0.0267
Nickel, total (T-Ni) ²	mg/L	0.0250-0.0626	-	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	0.00008
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010	<0.000010	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010	<0.000010	<0.000010	0.00001
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000152	0.000152	0.000583	0.00339
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050	<0.00050	<0.00050	0.00224
Zinc, total (T-Zn)	mg/L	-	-	<0.0030	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0025	-	<0.00050	<0.00050	<0.00050	0.00216
Dissolved Metals							
Cadmium, dissolved (D-Cd) ²	mg/L	0.000018-0.00018	0.000038-0.00047	0.0000056	<0.0000050	<0.0000050	<0.0000150
Copper, dissolved (D-Cu) ²	mg/L	0.000200-0.0187	0.00115-0.0378	<0.00020	<0.00020	0.00020	0.00114
Iron, dissolved (D-Fe)	mg/L	-	0.35	<0.010	<0.010	0.027	0.121
Lead, dissolved (D-Pb) ²	mg/L	0.00120-0.0145	-	<0.000050	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn) ²	mg/L	0.135-0.440	1.97-5.48	0.0002	0.00024	0.00054	0.0125
Nickel, dissolved (D-Ni) ²	mg/L	0.000600-0.00530	0.00910-0.0461	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00427	0.00378	0.00248	0.0704
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	<0.00050	0.00208
Zinc, dissolved (D-Zn) ²	mg/L	0.00149-0.0288	0.00793-0.121	<0.0010	<0.0010	<0.0010	0.0026
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.0058	-	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	0.003	-	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	0.000012	-	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	0.000018	-	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.000001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.000004	-	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.003	-	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010	<0.000010	0.000011
Naphthalene	mg/L	0.001	0.001	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	0.0003	-	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	0.00002	-	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	0.0034	-	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.04	-	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.09	-	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	10	3.4	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	0.072	-	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.0005	-	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	0.03	-	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050

Notes:

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 freshwater aquatic life.

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

¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.² BC WQG or CWQG indicated to be variable are calculated from sample-specific measurements for temperature, field pH, total hardness and dissolved organic carbon (DOC) content. The lowest applicable guidelines are shown in the table; however, water quality data was screened to all applicable guidelines.

**Table E-2:
Freshwater 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	0.0038-0.010 ^{3,4}
Station	Description	Sample ID	Lab ID	Sampling Date		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	SW-01	VA26A9701-001	2026-04-22	<0.000020	0.00209
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	SW-01	VA26B0250-001	2026-04-28	<0.000020	0.00207
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)	SW-04	VA26A9701-002	2026-04-22	<0.000020	0.00118
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)	SW-04	VA26B0250-002	2026-04-28	<0.000020	0.00076
SW-02	Lower Freshwater Reach of Mill Creek (upstream of the third bridge)	SW-02	VA26A9834-001	2026-04-21	<0.000020	0.00115
SW-02	Lower Freshwater Reach of Mill Creek (upstream of the third bridge)	SW-02	VA26B0150-001	2026-04-27	<0.000020	0.00095
SW-07	Upstream Mill Creek (at the diversion inlet)	SW-07	VA26A9834-003	2026-04-21	<0.000020	0.00121
SW-07	Upstream Mill Creek (at the diversion inlet)	SW-07	VA26B0150-003	2026-04-27	<0.000020	0.00097

Notes:

Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of freshwater 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 = 0.026 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 E-3:
Freshwater 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		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	SW-01	VA26A8440-001	2026-04-09	0	1.56
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)	SW-04	VA26A8440-002	2026-04-09	0	1.73

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.

***Appendix F:
Estuarine Water Receiving Environment Results***

**Table F-1:
Summary of Mill Creek Estuary Water Quality Results Received at the Time of Reporting.**

Parameter	Unit	Lowest Applicable Guideline ¹		Station SW-03
				Mill Creek Estuary
		SW-03		
		VA26B0150-002 2026-04-27 12:26		
		Long Term	Short Term	
General Parameters				
pH - Field	pH units	7.0 - 8.7	-	7.6
Specific Conductivity - Field	µS/cm	-	-	1709
Temperature - Field	°C	-	-	6.9
Salinity - Field	ppt	-	-	0.9
Turbidity - Field	NTU	-	-	0.69
TSS	mg/L	-	-	<3.3
Dissolved Oxygen - Field	mg/L	>=8	-	12.47
Total Hardness	mg/L	-	-	144.00
Dissolved Hardness	mg/L	-	-	142.00
Anions and Nutrients				
Sulphate	mg/L	-	-	56.5
Chloride	mg/L	-	-	453
Fluoride	mg/L	-	1.5	<0.200
Ammonia (N-NH ₃)	mg/L	7.2 ²	48 ²	<0.0050
Nitrite (N-NO ₂)	mg/L	-	-	<0.0100
Nitrate (N-NO ₃)	mg/L	3.7	339	0.0502
Total Organic Carbon (TOC)	mg/L	-	-	1.28
Total Inorganic Carbon (DOC)	mg/L	-	-	1.29
Total Metals				
Aluminum, total (T-Al)	mg/L	-	-	0.12
Antimony, total (T-Sb)	mg/L	-	0.27	<0.00010
Arsenic, total (T-As)	mg/L	0.0125	-	0.00012
Barium, total (T-Ba)	mg/L	-	-	0.00226
Beryllium, total (T-Be)	mg/L	0.1	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	0.103
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.0000064
Chromium, total (T-Cr)	mg/L	-	-	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	<0.00010
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00059
Iron, total (T-Fe)	mg/L	-	-	0.06
Lead, total (T-Pb)	mg/L	0.002	0.14	0.000103
Manganese, total (T-Mn)	mg/L	0.1	-	0.00322
Molybdenum, total (T-Mo)	mg/L	-	-	0.000633
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.000050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	<0.000010
Uranium, total (T-U)	mg/L	-	-	0.000234
Vanadium, total (T-V)	mg/L	0.005	-	<0.00050
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00050
Dissolved Metals				
Cadmium, dissolved (D-Cd)	mg/L	-	-	0.0000064
Copper, dissolved (D-Cu)	mg/L	-	-	0.00022
Iron, dissolved (D-Fe)	mg/L	-	-	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	0.0012
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.166
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050
Zinc, dissolved (D-Zn)	mg/L	-	-	<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	-	-	<0.000010
2-methylnaphthalene	mg/L	-	-	<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	-	<0.00050
Ethylbenzene	mg/L	0.07	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050
Styrene	mg/L	-	-	<0.00050
Toluene	mg/L	0.03	-	<0.00040
Total Xylenes	mg/L	0.07	-	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050

Notes:

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

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

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

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

² The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26E and 26F in BC WQG guidance document.

**Table F-2:
Estuarine 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	0.0045 - 0.0065 ^{3,4}
Station	Description	Sample ID	Lab ID	Sampling Date		
SW-03	Mill Creek Estuary	SW-03	VA26A9834-002	2026-04-21	<0.000020	0.00129
SW-03	Mill Creek Estuary	SW-03	VA26B0150-002	2026-04-27	<0.000020	0.00090

Notes:

Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of freshwater 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 = 0.026 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.

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

**Table G-1:
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-E1						
IDZ-E1	0.5 m Below Surface	IDZ-E1-0.5	VA26A8584-001	2026-04-10	0	1.95
IDZ-E1	2 m Below Surface	IDZ-E1-2m	VA26A8584-002	2026-04-10	0	2.69
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF	VA26A8584-003	2026-04-10	0	2.41
Station IDZ-E2						
IDZ-E2	0.5 m Below Surface	IDZ-E2-0.5	VA26A8584-004	2026-04-10	0	2.16
IDZ-E2	2 m Below Surface	IDZ-E2-2m	VA26A8584-005	2026-04-10	0	2.08
IDZ-E2	2 m Above Seafloor	IDZ-E2-SF	VA26A8584-006	2026-04-10	0	2.08
Reference Station WQR1						
WQR1	0.5 m Below Surface	WQR1-0.5	VA26A8584-007	2026-04-10	0	1.48
WQR1	2 m Below Surface	WQR1-2m	VA26A8584-008	2026-04-10	0	1.74
WQR1	2 m Above Seafloor	WQR1-SF	VA26A8584-009	2026-04-10	0	3.09

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.