TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date:**	**15 Aug 2025**
From:	**Holly Pelletier, Cheng Kuang and Patrick Mueller (Lorax)**	**Project #:**	**A633-9**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #76 for August 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 provides water quality database management and WDA compliance reporting services to Woodfibre LNG.

This technical memorandum (Report #76) was prepared by Lorax Environmental and summarizes WDA monitoring conducted for the period of August 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 #76 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 and Appendix C for contact water and treated water 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 in early 2024 construction of water management infrastructure commenced. 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. 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. To facilitate the replacement of the East Creek discharge culvert at OUT-12 (station SW-04), the lower reach of East Creek was temporarily diverted to an adjacent culvert, OUT-11, on September 17, 2024.

The East WWTP was commissioned April 2024 and the West WWTP was commissioned August 2024. Operation of the West WWTP was subsequently suspended September 25, 2024 for a temporary reconfiguration to conduct pilot-scale evaluations of alternative treatment processes. The evaluations were completed April 2025 and did not yield improved treatment outcomes; therefore, the original treatment process has been maintained. Lower than expected volumes of contaminated contact water have been encountered during construction, therefore operation of the West WWTP remains suspended and all site waters that require treatment are directed to the East WWTP with treated effluent discharged to the East Sedimentation Pond.

The 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.

Discharge from the East and West Sedimentation Ponds is controlled using pumps. Prior to water management upgrades that commenced implementation during the week of June 22 – 28, water stored in the ponds was pumped to a TSS settling system for clarification and then discharged through the authorized outfall structures associated with each pond. Some of the TSS clarified water was recirculated back to the ponds or was re-used for construction (*e.g.*, dust suppression), and this will continue with the revised configuration. 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.

A flocculant-based TSS settling system (2700GPM) is being implemented at West Sedimentation Pond to clarify all non-contaminated construction contact water prior to re-use at site or discharge at SP-W-OUT. The fully built 2700GPM TSS settling system will have the installed capacity to clarify 14,700 m^3/day of contact water and will consist of six parallel treatment trains, each with an installed capacity of 2,450 m^3/day. The number of active trains will be matched to contact water flows. Only one train will be operated during dry conditions or when contact water flows are below approximately 2450 m^3/day, whereas at higher flows additional trains will be activated as needed to match the influent volumes. The individual treatment trains are being commissioned in stages. The first, third and fourth trains have been commissioned, and preparations are underway to commission the remaining three treatment trains (August 3 – 9).

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

A mix of sunny and cloudy weather conditions were observed during the August 3 – 9 monitoring period, with precipitation recorded on August 5 (5 mm), August 6 (12.6 mm), and August 7 (0.4 mm). The daily weather conditions are summarized in Table 1.

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

Date	Precipitation (mm)	Max. Temp (°C)	Min. Temp (°C)	Weather Description
2025-08-03	0	23.5	15.3	Mix of sun and cloud
2025-08-04	0	24.7	16.8	Sunny
2025-08-05	5	22.5	15.8	Mix of sun and cloud
2025-08-06	12.6	22.4	15.5	Overcast and rainy
2025-08-07	0.4	22.2	14.8	Overcast
2025-08-08	0	23.2	12.8	Mix of sun and cloud
2025-08-09	0	24.3	13.7	Mix of sun and cloud

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

From August 3 – 9, the East Sedimentation Pond received recirculated effluent from the East WWTP as well as recirculated effluent from the 2700GPM TSS settling system while the West Sedimentation Pond was off-line for maintenance (Appendix A, Figure 2). There was no discharge to Howe Sound from station SP-E-OUT during the monitoring period. No water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from August 3 – 9 (Appendix B, Table B-4).

Routine operation of the East WWTP continued during the monitoring period (August 3 – 9) except August 5 and 6, when the system was offline for maintenance. Concrete contact water was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond each day during the monitoring period (August 3 – 9) except August 5 and 6. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-4).

From August 3 – 9, the West Sedimentation Pond did not receive any influent as it was drained since July 30 to allow for pond maintenance and installation of the permanent outfall pipe (Appendix A, Figure 3). From July 30 to August 9 the 2700GPM system was reconfigured to clarify and recirculate to the East Sedimentation Pond effluent. There was no discharge to Howe Sound from station SP-W-OUT during the monitoring period. A total of 395 m^3 of clarified effluent was reclaimed for construction use. Daily clarified effluent volumes from the 2700GPM TSS settling system and volumes of reclaimed water are provided in Appendix C (Table C-5).

2. Monitoring Summary

The locations of compliance and supplementary 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 compliance and supplementary monitoring stations are currently being monitored:

- Non-contact diversion ditch outlet monitoring stations (OUT-01, OUT-02, OUT-06, and OUT-11). East Creek water was temporarily diverted to OUT-11 on September 17, 2024, and is monitored at the inlet to temporary diversion (station SW-04), therefore OUT-11 is not currently monitored.
- 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, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and 2700GPM-OUT).
- Effluent compliance stations (SP-E-OUT and SP-W-OUT).
- Howe Sound reference and IDZ monitoring stations (WQR1, WQR2, IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2).

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 settling system stations are supplemental to the PE-111578 monitoring requirements and are monitored at the discretion of field staff.

Water quality was monitored at stations SW-01, SW-02, SW-03, SW-04, SW-07, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, 2700GPM-IN, and 2700GPM-OUT during the monitoring period (August 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 (August 3 – 9) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation pond, 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 will 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 stations (SP-E-OUT and SP-W-OUT, respectively) as there was no discharge to Howe Sound during the monitoring period (August 3 – 9). Daily field parameters were not collected from the west catchment influent station (SP-W-IN) during the monitoring period as the West Sedimentation Pond has been drained since July 30 to allow for pond maintenance and installation of the permanent outfall pipe. 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 5 and 6 as it was not operational on those days. 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.

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

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
August 3, 2025	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		
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	2700GPM-OUT	2700GPM TSS settling system at the effluent meter box		
August 4, 2025	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		
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	2700GPM-OUT	2700GPM TSS settling system at the effluent meter box		
	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
	SW-03	Mill Creek Estuary		
	SW-07	Upstream Mill Creek (at the diversion inlet)		
August 5, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	2700GPM-OUT	2700GPM TSS settling system at the effluent meter box		
	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
	SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
August 6, 2025	SP-E-IN	East Sedimentation Pond monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	2700GPM-OUT	2700GPM TSS settling system at the effluent meter box		
August 7, 2025	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		
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	P
	2700GPM-OUT	2700GPM TSS settling system at the effluent meter box	Field, Physical & General Parameters, VH & BTEX, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	P
August 8, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field and Physical Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	WWTP-E-IN	East WWTP at the influent meter box	Field and Physical Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	2700GPM-OUT	2700GPM TSS settling system at the influent meter box	Field and Physical Parameters, EPHs & PAHs	P
August 9, 2025	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		
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	2700GPM-OUT	2700GPM TSS settling system at the effluent meter box		

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.
M_2 – bi-monthly monitoring for physical parameters at WWTP and sedimentation pond stations.
W – high frequency 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 Screening and Reporting Overview

Water quality and flow monitoring results are screened against field quality control (QC) criteria, benchmark values, operational minimum discharge objectives (MDOs) that the WWTPs are currently being operated to meet, PE-111578 discharge limits, as well as Canadian, Federal 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.

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 methylmercury WQG to support the interpretation of total mercury and methylmercury results.

3.2 Summary of Reported Results

Field measurements and analytical results included in this weekly report (Report #76) are listed below in Table 3. 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-E-IN, WWTP-E-IN, and WWTP-E-OUT collected July 10 (dioxins and furans)
- IDZ-E1, IDZ-E2, and WQR1 collected July 12 (dioxins and furans)
- 2700GPM-IN and 2700GPM-OUT collected July 14 (dioxins and furans)
- IDZ-W1, IDZ-W2 and WQR2 collected July 22 (dioxins and furans)
- 2700GPM-IN and 2700GPM-OUT collected July 25 (dioxins and furans)
- 2700GPM-IN and 2700GPM-OUT collected July 29 (dioxins and furans)
- SW-02, SW-03 and SW-07 collected August 4 (field and all analytical parameters)
- SW-01 and SW-04 collected August 5 (field and all analytical parameters)
- 2700GPM-IN and 2700GPM-OUT collected August 7 (dioxins and furans)
- SP-E-IN, WWTP-E-IN, and WWTP-E-OUT collected August 8 (methylmercury)
- 2700GPM-OUT collected August 8 (all analytical parameters)

Table 3: Summary of Analytical Results Included in Weekly Discharge and Compliance Report #76.

Sample	Description	Sampling Date	Parameters Reported
2700GPM-IN	2700 GPM TSS settling system at the influent meter box	August 7, 2025	Field, Physical & General Parameters, VH & BTEX, Total, Dissolved and Speciated Metals, VOCs, Methylmercury,
2700GPM-OUT	2700 GPM TSS settling system at the effluent meter box		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	August 8, 2025	Field and Physical Parameters, Total and Dissolved Metals, Hexavalent Chromium.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		

3.3 East Catchment

The east catchment water quality monitoring results for stations at the East Sedimentation Pond, East WWTP and the authorized discharge location are discussed in this section. Results for the sedimentation pond and authorized discharge location are screened against PE-111578 discharge limits. Parameters without a discharge limit are screened against Canadian, Federal and BC WQGs for the protection of marine water aquatic life. East WWTP monitoring results are screened against operational MDOs which are equivalent to the PE-111578 discharge limits and the lowest applicable WQGs for parameters without discharge limits. The screened water quality results for analytical samples available at the time of reporting and for field parameters collected during the monitoring period are presented in Appendix B. Exceedances of PE-111578 discharge limits and WQGs in samples of effluent discharged to Howe Sound and results received for methylmercury, dioxins and furans are summarized below.

There were no discharges from the SP-E-OUT authorized discharge location during the monitoring period (August 3 – 9). East WWTP treated effluent volumes and discharge volumes from SP-E-OUT are listed in Appendix B, Table B-4.

Field measurements were collected August 3 – 9 at multiple influent and effluent locations, as outlined in Section 2, and are tabulated in Appendix B, Table B-3. Analytical samples collected August 8 (stations SP-E-IN, WWTP-E-IN, and WWTP-E-OUT) were available at the time of reporting. Screening results for east catchment contact water quality are summarized in Table B-1 and Table B-2 of Appendix B.

Dissolved oxygen (4.50 – 6.59 mg/L) was below the lower limit of the MDO (≥8 mg/L) in East WWTP effluent (WWTP-E-OUT) in field measurements collected each day during the August 3 – 9 monitoring period (Appendix B, Table B-3), and total mercury concentration (0.0000695 mg/L) was above the MDO (0.000016 mg/L) in East WWTP effluent collected August 8 (Appendix B, Table B-2). The depletion of dissolved oxygen was also observed in contact water during dry conditions in 2024 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 treated effluent was directed to the East Sedimentation Pond and there was no discharge to Howe Sound from the authorized discharge location (SP-E-OUT) during the August 3 – 9 monitoring period. Mercury parameters 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, the West WWTP monitoring stations, and the authorized discharge location are discussed in this section. Results for sedimentation pond and TSS settling system influent and effluent stations are screened against PE-111578 discharge limits. Parameters

without a discharge limit are screened against Canadian, Federal and BC WQGs for the protection of marine water aquatic life. The screened water quality results for analytical samples and field parameters are presented 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. Exceedances of PE-111578 discharge limits and WQGs in samples of effluent discharged to Howe Sound and results received for methylmercury, dioxins and furans are summarized below.

During the monitoring period (August 3 – 9), pilot testing of the 2700GPM TSS settling system continued (Section 1.1 and Section 1.2). From July 30 to August 9 the 2700GPM system was temporarily reconfigured to clarify and recirculate East Sedimentation Pond effluent (Section 1.2). There were no discharges to Howe Sound from the west catchment discharge location (SP-W-OUT) during the monitoring period. Daily clarified effluent and discharge volumes from the west catchment are summarized in Appendix C, Table C-5.

Field measurements were collected August 3 – 9 at multiple influent and effluent locations, as outlined in Section 2, and are tabulated in Appendix C, Table C-4. Analytical samples collected August 7 (stations 2700GPM-IN and 2700GPM-OUT) were available at the time of reporting. Screening results for west catchment contact water quality are tabulated in Table C-1 and Table C-2 of Appendix C.

During the monitoring period (August 3 – 9), field measurements and analytical results for samples collected at station 2700GPM-OUT met PE-111578 discharge limits and WQGs except for dissolved oxygen on August 3, 6, and 9 (5.87 – 7.76 mg/L), which was lower than the WQG (≥8 mg/L). The depletion of dissolved oxygen was also observed in contact water during dry conditions in 2024 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. Clarified effluent from the 2700GPM system was recirculated to the East Sedimentation Pond and there was no discharge to Howe Sound from the authorized discharge location (SP-W-OUT) during the August 3 – 9 monitoring period.

Methylmercury results were available for West Sedimentation Pond influent (SP-W-IN) and 2700GPM TSS settling system influent and effluent (2700GPM-IN and 2700GPM-OUT, respectively) collected August 7. The methylmercury concentration was 0.000637 µg/L in the 2700GPM-OUT sample collected August 7 (Appendix C, Table C-3), which is above the WQG (0.0001 µg/L). Clarified effluent from the 2700GPM system was recirculated to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound on August 7. The total mercury concentration is also listed in Appendix C, Table C-3 and is above the WQG. Mercury parameters are tracked in Table 4.

3.5 Non-Contact Water Diversion Ditch Outlets

Non-contact water diversion ditch samples are screened against Canadian, Federal and BC WQGs for the protection of freshwater aquatic life.

East Creek was temporarily diverted to OUT-11 on September 17, 2024, to facilitate replacement of the OUT-12 culvert through which East Creek previously discharged. Only East Creek water is flowing through the OUT-11 culvert. East Creek is monitored at freshwater receiving environment station SW-04 and station OUT-11 is not monitored while the diversion is in place.

There are no outstanding analytical results for non-contact diversion ditch outlet stations at the time of reporting.

3.6 Freshwater and Estuarine Water Receiving Environment

Freshwater and estuarine water receiving environment samples are screened against Canadian, Federal and BC WQGs for the protection of freshwater and estuarine aquatic life. Parameter concentrations above a WQG value, but within the range of values observed in the baseline monitoring program are considered to represent the natural condition of the water and are not flagged as a possible indicator of project influence.

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

3.7 Marine Water Receiving Environment

Marine water receiving environment samples are screened against Canadian, Federal and BC WQGs for the protection of marine water aquatic life. Parameter concentrations above a WQG value, but within the range of values observed in the baseline monitoring program or reference stations are considered to represent the natural condition of the water and not flagged as a possible indicator of project influence. Similarly, WQG exceedances at marine reference stations are considered to represent background conditions that are not influenced by the project. It is expected that 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.

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

4. 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 recordkeeping, 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 3 – 9, Report #76)		
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 has been temporarily diverted through OUT-11 outfall since September 17, 2024, to facilitate replacement of the East Creek outfall culvert (OUT-12). 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.
Pending Data	Analytical results not reported.	Field parameters and analytical results for freshwater and estuarine receiving environment samples collected August 4 and 5 and analytical results for the August 8 sample collected at 2700GPM-OUT were not included with Report #76. Dioxins and furans results for contact water and treated water samples collected August 7, and methylmercury results for contact water and treated water samples collected August 8 were not included with Report #76. The pending results will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #62: WWTP Performance Evaluation	Total copper above the MDO.	This item was first noted in Report #46 (January 8 sample). From January 8 onwards the WWTP-E-OUT total copper concentrations were 0.00809, 0.00595, 0.00895, 0.00518, 0.00542, 0.00525, 0.00450, 0.00734, 0.00464, 0.00462, and 0.00573 mg/L in samples collected at WWTP-E-OUT on January 8, 14, 24, 28, February 24, March 8, 17, April 24, May 10, June 3, and June 9, respectively, and ranged from 0.00613 to 0.0108 mg/L in four replicate samples collected on February 15 which are above the MDO. The HSMT metal removal media was replaced on June 5 and the fresh media was expected to improve copper removal; however, the total copper result for WWTP-E-OUT collected June 9 (0.00573 mg/L) following the media replacement was above the MDO. Follow-up samples collected June 19, 23, July 2, 10, 13 and 21 returned total copper concentrations of 0.00264, 0.00263, 0.00181, 0.00185, 0.00215 and 0.00174 mg/L, respectively, and met the MDO. A detailed process evaluation was conducted on July 13 and a modification to how the treatment reagents are added was developed to improve copper removal. BCER was notified of the planned modification on July 21, and it was subsequently implemented. A sample collected July 28 returned a total copper concentration of 0.00797 mg/L and was above the MDO while the sample collected August 8 returned a total copper concentration of 0.00206 mg/L and was below the MDO. The WWTP treatment performance for total copper continues to be reviewed. This item remains open.
Report #67: WQG Evaluation	Total mercury and methylmercury above WQG.	In general, there has been an increased incidence of total mercury and methylmercury concentrations above the WQGs in site contact waters since late April. In contrast, as of Weekly Report #75, receiving environment samples have met WQGs since May 19. Since late April, site conditions have been drier than through the winter months. Total methylmercury results in contact water from SP-E-OUT, SP-W-OUT, WWTP-E-OUT and 2700GPM-OUT from May 3 to August 7 have been generally above the WQG (0.0001 µg/L) ranging from 0.000089 to 0.00194 µg/L with the highest value observed at WWTP-E-OUT on July 13 (0.00194 µg/L). Possible project related sources have been evaluated, and upstream contact water monitoring data indicate methylmercury is elevated in the hydrovac sump. Excess water from this sump is directed to the East WWTP. Further data evaluation will be conducted after additional data are collected. This item remains open.
Report #72: Pending Data	Analytical results not reported.	Dioxins and furans results for contact water and treated water samples collected July 7 and for freshwater and estuarine water receiving environment samples collected July 8 and 9 are discussed in Sections 3.4 and 3.6 of Report #75. Dioxins and furans results for contact water and treated water samples collected July 10 and for marine water receiving environment samples collected July 12 were not included with Report #75. The pending results will be included in future weekly reports when available. This item remains open.
Report #73: Pending Data	Analytical results not reported.	Dioxins and furans results for contact water and treated water samples collected July 14 were not included with Report #75. The pending results will be included in future weekly reports when available. This item remains open.
Report #74: Pending Data	Analytical results not reported.	Field parameters and analytical results for marine water receiving environment samples collected July 22 are discussed in Section 3.7 of Report #75. Dioxins and furans results for marine water receiving environment samples collected July 22 and for contact water and treated water samples collected July 25 were not included with Report #75. The pending results will be included in future weekly reports when available. This item remains open.
Report #75: Non-Compliance - Effluent Bypass	Bypass of the SP-E-OUT discharge location.	On July 31, following the temporary reconfiguration of water transfer lines to recirculate East Sedimenation Pond water through the 2700GPM system and the subsequent commencement of recirculation, an estimated 2.84 m^3 of clarified effluent from the 2700GPM system leaked from the water return line and flowed onto the Marine Offloading Facility (MOF). The leak was detected and repaired shortly after pumping was initiated. Before the leak was fully contained, a portion of the 2.84 m^3 2700GPM clarified effluent had flowed off the MOF into Howe Sound, bypassing the SP-E-OUT authorized discharge location. BCER has been notified. Review of the non-compliance is underway. This item remains open.
Report #75: Potential Project Influence	Total copper at IDZ-W2 above WQG and the baseline concentration range.	The total copper concentration (0.0310 mg/L) observed at 2 m below the surface at IDZ-W2 on July 22 was 16 and 10 times greater than the short- and long-term WQGs, respectively, and 3 times greater than the maximum concentration (0.00974 mg/L) observed in the pre-construction baseline monitoring program or within background ranges observed at marine reference stations. In contrast, the total copper concentrations measured in the sample collected at 0.5 m below the surface at IDZ-W2 (0.00111 mg/L) and at IDZ-W1 (both shallow depths < 0.0011 mg/L) were below the WQGs. The result for the IDZ-W2 sample collected 2 m below surface was verified by the laboratory. The cause of the elevated result within the IDZ has not been identified; however, based on the results from the other IDZ-W2 samples, the elevated result is suspected to be erroneous and not representative of water quality at IDZ-W2 at 2 m below surface at the time of sampling. This item is closed.
Report #75: Pending Data	Analytical results not reported.	Dioxins and furans results for contact water and treated water samples collected July 29 were not included with Report #76. The pending results 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.

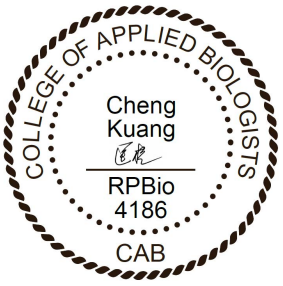
5. Closure

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.

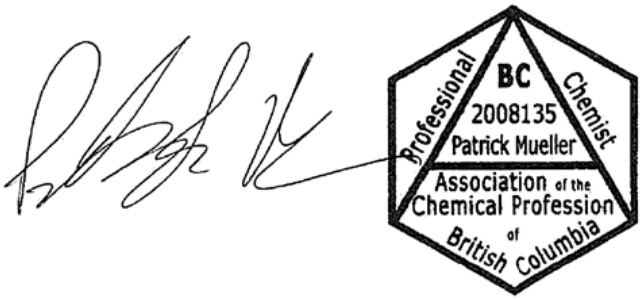
Regards,

LORAX ENVIRONMENTAL SERVICES LTD.

Holly Pelletier, B.Sc., GIT.
Environmental Geoscientist



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



Patrick Mueller, B.Sc., P.Chem.
Environmental Chemist

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
- East Creek Temporary Diversion
- Non-Contact Ditch
- Culvert / Outfall / Pipeline

DATE SAVED:	Aug 11, 2025
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

CLIENT: Woodfibre LNG

LORAX ENVIRONMENTAL

PROJECT:

Woodfibre LNG Project Construction Phase

TITLE: Site Layout and Water Quality Monitoring Stations for PE-111578 (August 9, 2025)

PROJECT #: A633-9

FIGURE: 1

P:\@202506\Woodfibre\Drafting Figures\APRX\WLNG Weekly Report Figure\WLNG Weekly Report.aprx Figure 1 - Monitoring and Compliance Locations

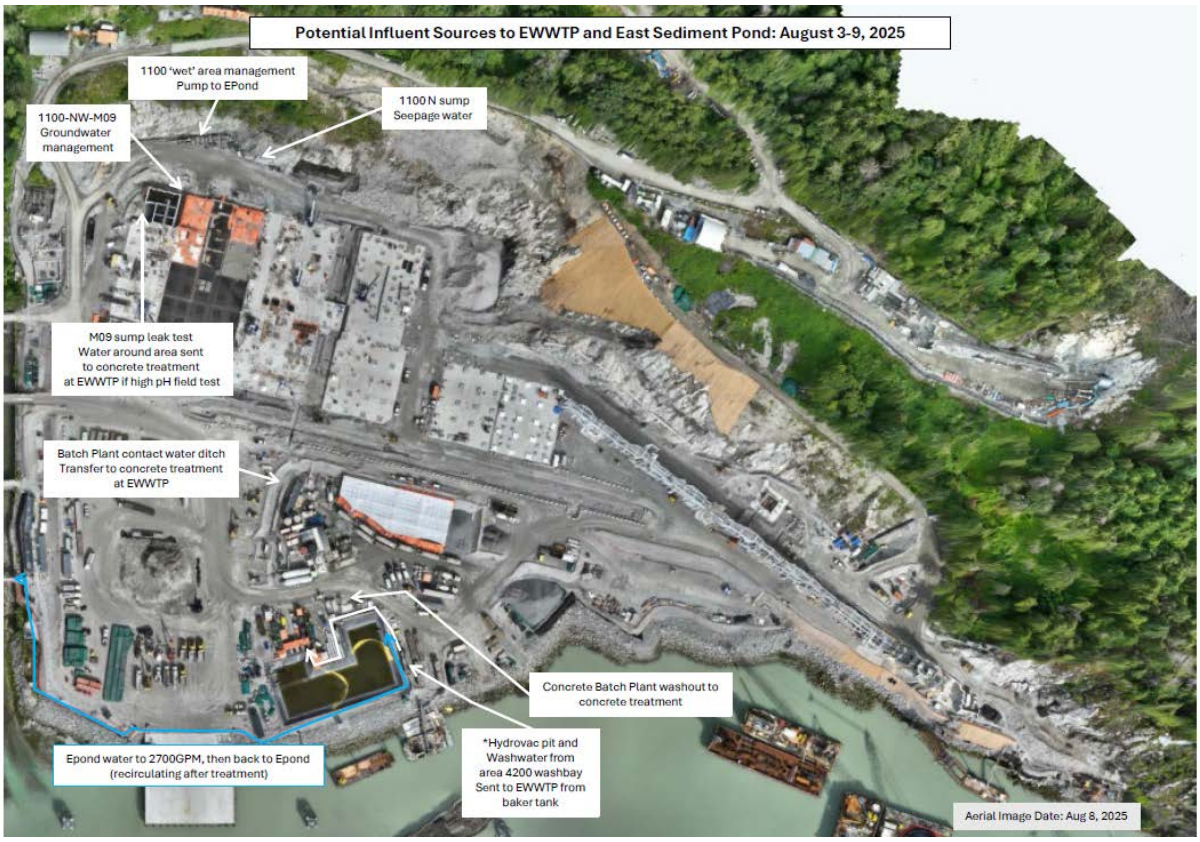


Figure 2: East Catchment contact water management facilities (August 3 – 9).

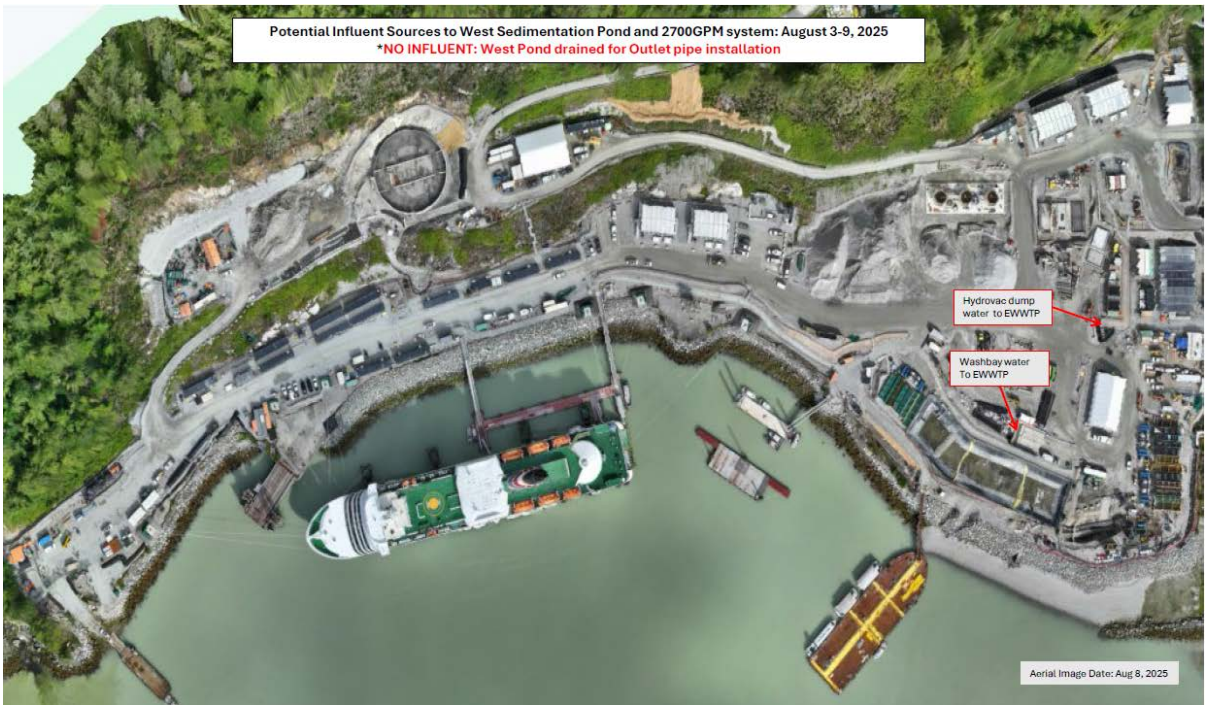


Figure 3: West Catchment contact water management facilities (August 3 – 9).

Figure 4: Aerial view of the East Sedimentation Pond (August 8, 2025). The East WWTP is located on the left side of the pond.

Figure 5: Aerial view of the West Sedimentation Pond (August 8, 2025). The West Sedimentation Pond has been drained since July 30 for cleaning and outfall pipe installation.

Appendix B: East Catchment Monitoring Results

Table B-1: East Catchment Contact Water Influent 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 VA25B9766-006 2025-08-08 10:29	Station WWTP-E-IN Influent WWTP-E-IN VA25B9766-004 2025-08-08 09:41
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.4	7.3
Specific Conductivity - Field	µS/cm	-	-	-	2874	2680
Temperature - Field	°C	-	-	-	22.5	22.1
Salinity - Field	ppt	-	-	-	1.49	1.47
Turbidity - Field	NTU	-	-	-	2.96	2.07
TSS	mg/L	-	-	25 or 75 [6]	8.4	3.2
Dissolved Oxygen - Field	mg/L	≥8	-	-	***7.6***	***7.49***
Anions and Nutrients						
Sulphate	mg/L	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-
Fluoride	mg/L	-	1.5	-	-	-
Ammonia (N-NH_3)	mg/L	9.4 [3]	62 [3]	-	-	-
Nitrite (N-NO_2)	mg/L	-	-	-	-	-
Nitrate (N-NO_3)	mg/L	3.7	339	-	-	-
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.219	0.132
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00187	0.00185
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.00358	0.00346
Barium, total (T-Ba)	mg/L	-	-	-	0.00664	0.00741
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.084	0.086
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000300	<0.0000250
Chromium, total (T-Cr)	mg/L	-	-	-	0.00104	<0.00100
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020	<0.00020
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00183	0.00199
Iron, total (T-Fe)	mg/L	-	-	-	0.25	0.204
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000407	0.00039
Manganese, total (T-Mn)	mg/L	-	-	-	0.0111	0.0136
Mercury, total (T-Hg)	mg/L	0.000016 [5]	-	-	***0.0000359***	***0.0000284***
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.125	0.123
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	0.0014
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000448	0.000529
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	0.000068	0.000072
Uranium, total (T-U)	mg/L	-	-	-	0.0197	0.0168
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00409	0.0039
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	<0.0060	0.0163
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000300	<0.0000350
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00156	0.00176
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.107	0.171
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000196	0.00032
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00778	0.013
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.211	0.232
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00371	0.00370
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0027	0.0112
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	0.11	-	-	-	-
Ethylbenzene	mg/L	0.25	-	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-
Styrene	mg/L	-	-	-	-	-
Toluene	mg/L	0.215	-	-	-	-
Total Xylenes	mg/L	-	-	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	-

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 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 3 – 9).
[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] 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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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.

Table B-2: East Catchment Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station WWTP-E-OUT
					Effluent
					WWTP-E-OUT
					VA25B9766-005
		Long Term	Short Term		2025-08-08 15:32
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	6.7
Specific Conductivity - Field	µS/cm	-	-	-	3165
Temperature - Field	°C	-	-	-	22.8
Salinity - Field	ppt	-	-	-	1.65
Turbidity - Field	NTU	-	-	-	1.69
TSS	mg/L	-	-	25 or 75 [6]	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	***5.27***
Anions and Nutrients					
Sulphate	mg/L	-	-	-	-
Chloride	mg/L	-	-	-	-
Fluoride	mg/L	-	1.5	-	-
Ammonia ($N\text{-}NH_3$)	mg/L	9.4 [3]	62 [3]	-	-
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	-	-
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	-	-
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.0981
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00192
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.00357
Barium, total (T-Ba)	mg/L	-	-	-	0.00513
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.065
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000375
Chromium, total (T-Cr)	mg/L	-	-	-	0.00235
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00206
Iron, total (T-Fe)	mg/L	-	-	-	0.241
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000487
Manganese, total (T-Mn)	mg/L	-	-	-	0.0266
Mercury, total (T-Hg)	mg/L	0.000016 [5]	-	-	***0.0000695***
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.136
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000513
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	0.000118
Uranium, total (T-U)	mg/L	-	-	-	0.00841
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00416
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	<0.0060
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00056
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000375
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00142
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.151
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000291
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.027
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.165
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00409
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0054
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	0.11	-	-	-
Ethylbenzene	mg/L	0.25	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-
Styrene	mg/L	-	-	-	-
Toluene	mg/L	0.215	-	-	-
Total Xylenes	mg/L	-	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-

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 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 3 – 9).
[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] 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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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.

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

Parameter			**Temp.**	**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	2025-08-03 16:20	26.1	8.3	1.38	4.89	6.6	7.2	2678	No
SP-E-IN	Influent	2025-08-04 08:56	23.8	***6.71***	1.46	2.95	5.2	7.2	2811	No
SP-E-IN	Influent	2025-08-05 14:27	24.5	***6.91***	1.42	2.23	4.7	7.5	2751	No
SP-E-IN	Influent	2025-08-06 09:05	21.8	***6.72***	1.36	25.01	21.7	7.8	2633	No
SP-E-IN	Influent	2025-08-07 09:36	22.3	***7.63***	1.44	4.98	6.7	7.3	2774	No
SP-E-IN	Influent	2025-08-08 10:29	22.5	***7.6***	1.49	2.96	5.2	7.4	2874	No
SP-E-IN	Influent	2025-08-09 11:37	23	***7.47***	1.61	6.4	7.8	7.0	3082	No
WWTP-E-IN	Influent	2025-08-03 16:13	26.1	8.28	1.38	3.26	5.4	7.1	2670	No
WWTP-E-IN	Influent	2025-08-04 09:06	24.3	***6.83***	1.44	2.21	4.6	7.2	2783	No
WWTP-E-IN	Influent	2025-08-07 10:00	22.7	***7.08***	1.41	3.08	5.3	7.7	2725	No
WWTP-E-IN	Influent	2025-08-08 09:41	22.1	***7.49***	1.47	2.07	4.5	7.3	2680	No
WWTP-E-IN	Influent	2025-08-09 11:58	23.5	8.05	1.54	1.68	4.3	7.1	2964	No
Effluent [5]										
WWTP-E-OUT	Effluent	2025-08-03 15:43	24.8	***6.59*** [7]	1.42	2.81	5.1	6.5	2752	No
WWTP-E-OUT	Effluent	2025-08-04 09:10	24.3	***5.82*** [7]	1.66	3.25	5.4	6.2	3180	No
WWTP-E-OUT	Effluent	2025-08-07 09:58	22.1	***4.5*** [7]	1.52	5.24	6.9	6.3	2911	No
WWTP-E-OUT	Effluent	2025-08-08 15:32	22.8	***5.27*** [7]	1.65	1.69	4.3	6.7	3165	No
WWTP-E-OUT	Effluent	2025-08-09 12:06	22.3	***6.17*** [7]	1.62	2.9	5.2	6.7	3097	No

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.
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 parameters for WWTP-E-IN were not collected on August 5 and 6 as the East WWTP was not operational on those days.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (August 3 – 9), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field parameters for WWTP-E-OUT were not collected on August 5 and 6 as the East WWTP was not operational on those days.
[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.
[7] East WWTP treated effluent is directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound during the monitoring period (August 3 – 9).

Table B-4: East Catchment Daily Discharge Volumes for the Monitoring Period (August 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)**
Unit	**m^3**	**m^3**	**m^3**	**m^3**
PE-111578 Discharge Limit	-	-	1100	- [1]
Date				
2025-08-03	0	0	550	0
2025-08-04	0	0	245	0
2025-08-05	0	0	0	0
2025-08-06	0	0	0	0
2025-08-07	0	0	547	0
2025-08-08	0	0	717	0
2025-08-09	0	0	745	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 m^3/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 Catchment Contact Water Influent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station 2700GPM-IN Influent 2700GPM-IN VA25B9629-001 2025-08-07 09:42
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.9
Specific Conductivity - Field	µS/cm	-	-	-	2389
Temperature - Field	°C	-	-	-	22.5
Salinity - Field	ppt	-	-	-	1.23
Turbidity - Field	NTU	-	-	-	3.79
TSS	mg/L	-	-	25 or 75 [6]	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.16
Anions and Nutrients					
Sulphate	mg/L	-	-	-	939
Chloride	mg/L	-	-	-	29.9
Fluoride	mg/L	-	1.5	-	<0.400
Ammonia ($N\text{-}NH_3$)	mg/L	0.97-1.5 [3]	6.4-10 [3]	-	0.0531
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	-	<0.0200
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	-	<0.100
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.198
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00172
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.00334
Barium, total (T-Ba)	mg/L	-	-	-	0.0077
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.081
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000300
Chromium, total (T-Cr)	mg/L	-	-	-	0.00116
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00229
Iron, total (T-Fe)	mg/L	-	-	-	0.174
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000328
Manganese, total (T-Mn)	mg/L	-	-	-	0.0149
Mercury, total (T-Hg)	mg/L	0.000016 [5]	-	-	***0.0000181***
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.124
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000576
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	0.000047
Uranium, total (T-U)	mg/L	-	-	-	0.0182
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00358
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	<0.0060
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000300
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00222
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.12
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000249
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0126
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.218
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00349
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.003
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.006	-	-	<0.000010
Acridine	mg/L	-	-	-	<0.000010
Anthracene	mg/L	-	-	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	<0.000010
Fluoranthene	mg/L	-	-	-	<0.000010
Fluorene	mg/L	0.012	-	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050
Phenanthrene	mg/L	-	-	-	<0.000020
Pyrene	mg/L	-	-	-	<0.000010
Quinoline	mg/L	-	-	-	<0.000050
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.11	-	-	<0.00050
Ethylbenzene	mg/L	0.25	-	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050
Styrene	mg/L	-	-	-	<0.00050
Toluene	mg/L	0.215	-	-	<0.00040
Total Xylenes	mg/L	-	-	-	<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 ***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 3 – 9).
[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] 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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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.

Table C-2: West Catchment Contact Water Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station 2700GPM-OUT Effluent 2700GPM-OUT VA25B9629-002
		Long Term	Short Term		2025-08-07 09:13
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.1
Specific Conductivity - Field	µS/cm	-	-	-	2701
Temperature - Field	°C	-	-	-	22.2
Salinity - Field	ppt	-	-	-	1.4
Turbidity - Field	NTU	-	-	-	1.72
TSS	mg/L	-	-	25 or 75 [6]	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.14
Anions and Nutrients					
Sulphate	mg/L	-	-	-	938
Chloride	mg/L	-	-	-	26.7
Fluoride	mg/L	-	1.5	-	<0.400
Ammonia (N-NH_3)	mg/L	1.5 [3]	10 [3]	-	0.0366
Nitrite (N-NO_2)	mg/L	-	-	-	<0.0200
Nitrate (N-NO_3)	mg/L	3.7	339	-	<0.100
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.121
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00171
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.00289
Barium, total (T-Ba)	mg/L	-	-	-	0.00561
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.074
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000200
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00100
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00235
Iron, total (T-Fe)	mg/L	-	-	-	0.117
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000252
Manganese, total (T-Mn)	mg/L	-	-	-	0.0026
Mercury, total (T-Hg)	mg/L	0.000016 [5]	-	-	***0.0000125***
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.122
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000555
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	0.000041
Uranium, total (T-U)	mg/L	-	-	-	0.0183
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00327
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	<0.0060
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000250
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00194
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.093
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000183
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00179
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.206
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00314
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	0.11	-	-	<0.00050
Ethylbenzene	mg/L	0.25	-	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050
Styrene	mg/L	-	-	-	<0.00050
Toluene	mg/L	0.215	-	-	<0.00040
Total Xylenes	mg/L	-	-	-	<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 ***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 3 – 9).
[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] 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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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.

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]	0.0020-0.0023 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
2700GPM-IN	Influent	2700GPM-IN	VA25B9629-001	2025-08-07	***0.000785***	***0.0181***
Effluent						
2700GPM-OUT	Effluent	2700GPM-OUT	VA25B9629-002	2025-08-07	***0.000637*** [5]	***0.0125*** [5]

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 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.
[5] 2700GPM clarified effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound on August 7.

Table C-4: West Catchment Field Measurements Collected During the Monitoring Period (August 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**								
Influent [4]										
2700GPM-IN	Influent	2025-08-03 16:16	26.5	8.17	1.36	2.02	4.5	7.5	2649	No
2700GPM-IN	Influent	2025-08-04 09:02	23.9	***7.99***	1.39	1.97	4.5	7.5	2680	No
2700GPM-IN	Influent	2025-08-05 14:35	24.7	8.13	1.42	1.85	4.4	7.6	2739	No
2700GPM-IN	Influent	2025-08-06 09:12	22.2	8.11	1.38	14.09	13.5	7.9	2663	No
2700GPM-IN	Influent	2025-08-07 09:42	22.5	8.16	1.23	3.79	5.8	7.9	2389	No
2700GPM-IN	Influent	2025-08-08 09:58	22.3	8.45	1.48	1.84	4.4	7.5	2843	No
2700GPM-IN	Influent	2025-08-09 11:52	23.2	8.36	1.54	1.62	4.2	7.3	2963	No
Effluent [5]										
2700GPM-OUT	Effluent	2025-08-03 15:03	25.7	***7.64*** [7]	1.36	3.8	5.8	7.9	2642	No
2700GPM-OUT	Effluent	2025-08-04 08:47	23.7	***7.34*** [7]	1.39	1.78	4.3	7.8	2687	No
2700GPM-OUT	Effluent	2025-08-05 14:17	24.3	***7.1*** [7]	1.4	1.48	4.1	7.7	2712	No
2700GPM-OUT	Effluent	2025-08-06 10:06	22.3	***7.76*** [7]	1.38	1.52	4.1	7.9	2670	No
2700GPM-OUT	Effluent	2025-08-07 09:13	22.2	8.14	1.4	1.72	4.3	8.1	2701	No
2700GPM-OUT	Effluent	2025-08-08 10:47	22.1	8.79	1.47	1.43	4.1	7.7	2834	No
2700GPM-OUT	Effluent	2025-08-09 11:24	22.8	***5.87*** [7]	1.53	0.68	3.5	7.6	2942	No

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.
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 parameters were not collected at station SP-W-IN during the monitoring period (August 3 – 9) as the West Sedimentation Pond has been drained since July 30 to allow for pond maintenance and installation of the permanent outfall pipe.
[5] 2700GPM clarified effluent was directed to the East Sedimentation Pond and there was no discharge at the authorized discharge location (SP-W-OUT) during the monitoring period (August 3 – 9), therefore daily field measurements for SP-W-OUT were not collected on those days.
[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.
[7] Clarified effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound during the monitoring period (August 3 – 9).

Table C-5: West Catchment Daily Discharge Volumes for the Monitoring Period (August 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**
PE-111578 Discharge Limit	-		-	120	- [2]
Date					
2025-08-03	0	1,139	72	0	0
2025-08-04	0	635	33	0	0
2025-08-05	0	797	9	0	0
2025-08-06	0	1,508	0	0	0
2025-08-07	0	1,520	71	0	0
2025-08-08	0	1,318	103	0	0
2025-08-09	0	1,261	107	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 m^3/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] Commissioning and pilot testing of a larger TSS settling system (2700GPM) continued during the monitoring period (August 3 – 9). From August 3 – 9, clarified effluent from the 2700GPM TSS settling system was temporarily directed to the East Sedimentation Pond while the West Sedimentation Pond was drained to allow for pond maintenance and installation of the permanent outfall pipe. Clarified effluent from the 2700GPM TSS settling system was recirculated to the East Sedimentation Pond or reclaimed for construction purposes based on operational considerations.