



March 7, 2022

Tracking Number: 398941

Authorization Number: 110576

REGISTERED MAIL

CITY OF PORT ALBERNI
4850 ARGYLE ST
PORT ALBERNI, BC
V9Y 1V8

Dear Operational Certificate Holder:

Enclosed is Operational Certificate 110576 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the operational certificate. An annual fee will be determined according to the Permit and Approval Fees and Charges Regulation.

Archaeological sites, whether known or undocumented are protected under the Heritage Conservation Act and must not be damaged or altered without a permit from the Archaeology Branch. If an archaeological site is disturbed without a permit, halt activities and immediately inform the Provincial Archaeology Branch. If you have any questions about the protection of archaeological sites please contact the Archaeological Branch at 250-953-3334.

This operational certificate does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the operational certificate holder. It is also the responsibility of the operational certificate holder to ensure that all activities conducted under this authorization are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

When a spill occurs, or there is an imminent risk of one occurring, the responsible person must ensure that it is reported in accordance with the Spill Reporting Regulation, which among other things, requires notification to Emergency Management BC at 1-800-663-3456. Additional information on spill reporting requirements is available at gov.bc.ca/reportaspill

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Administration of this operational certificate will be carried out by staff from the Environmental Protection Division's Regional Operations Branch. Documents pertinent to the operational certificate must be submitted by email or electronic transfer to the director in accordance with the ministry Data & Report Submissions website at:

<https://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/comply> , or as further instructed.

Please be reminded that the director may require the operational certificate holder to do one or more of the following at any time in accordance with section 14(1) of the *Environmental Management Act*:

- repair, alter, remove, improve or add to existing works, or to construct new works, and to submit plans and specifications for works specified in this authorization;
- conduct monitoring, and may specify procedures for monitoring and analysis, and procedures or requirements respecting the handling, treatment, transportation, discharge or storage of waste;
- conduct studies and to report information in accordance with the specifications of the director; and,
- recycle certain wastes and recover certain reusable resources, including energy potential from wastes, in accordance with the specifications of the director.

For more information about how the Ministry will assess compliance with your operational certificate please refer to

<https://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/comply>.

For more information about how to make changes to your operational certificate and to access waste discharge amendment forms and guidance, please refer to

<https://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/change>

If you have any questions or concerns, please contact Regional Operations Branch staff at Authorizations.South@gov.bc.ca .

Yours truly,



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region



MINISTRY OF

CLIMATE CHANGE STRATEGY

OPERATIONAL CERTIFICATE

110576

Under the Provisions of the Environmental Management Act, and in accordance with the City of Port Alberni's approved Liquid Waste Management Plan

CITY OF PORT ALBERNI

**4850 ARGYLE ST
PORT ALBERNI, BC
V9Y 1V8**

is authorized to discharge effluent from a municipal wastewater treatment facility serving the City of Port Alberni (the City), the Alberni-Clayoquot Regional District landfill (*Environmental Management Act* authorization 524), IR 1 Tsahaheh, and IR 1 Ahahswinis, located in Port Alberni, British Columbia, subject to the requirements listed below.

Contravention of any of these requirements is a violation of the *Environmental Management Act* and may lead to prosecution.

This Operational Certificate supersedes waste management Permit PE-297.

General Provisions

Where this authorization provides that the director may require an action to be carried out, the operational certificate holder must carry out the action in accordance with the requirements of the director.

Date issued: March 7, 2022

Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

Publication of Documents

The Ministry of Environment and Climate Change Strategy publishes Regulatory Documents on its website for the purpose of research, public education and to provide transparency in the administration of environmental laws. The operational certificate holder acknowledges that the province may publish any Regulatory Documents submitted by the operational certificate holder, excluding information that would be exempted from disclosure if the document was disclosed pursuant to a request under section 5 of the *Freedom of Information and Protection of Privacy Act*, and the operational certificate holder consents to such publication by the Province.

1. AUTHORIZED DISCHARGES

1.1. Port Alberni Wastewater Treatment Facility to the Somass River Estuary

This section applies to the discharge of municipal effluent from the City of Port Alberni wastewater treatment facility (facility) to the Somass River estuary via outfall. The EMS site reference number for this discharge is E325851.

1.1.1. The maximum rate of discharge is 79,400 cubic meters per day.

1.1.2. The characteristics of the discharge must not exceed:

- | | |
|---|------------------------------|
| a) 5-day Carbonaceous
Biochemical Oxygen
Demand | 45 mg/L |
| b) Total Suspended Solids | 45 mg/L |
| c) Fecal coliforms | 3,200 fecal coliforms/100 mL |
| d) <i>Escherichia coli</i> | 6,400 <i>e. coli</i> /100mL |
| e) Enterococci | 1,120 Enterococci/100mL |
| f) Total phosphorus | 6 mg/L |
| g) Orthophosphates | 4 mg/L |

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

- h) 96-Hr RBT single concentration Test must pass in 100% effluent concentration

1.1.3. The authorized discharge period is continuous.

1.1.4. The Authorized Works are fine screen, two-cell aerated lagoon run in parallel, ultraviolet disinfection and an 778m outfall with 5 operational diffuser ports at a minimum depth of 2.5 m and related appurtenances approximately located as shown on Site Plan A.

1.1.5. The discharge must not cause surface water quality at or beyond the Initial Dilution Zone to exceed the applicable Water Quality Guidelines.

1.1.6. The location of the facilities from which the discharge is authorized to originate is 7TRI_Alberni (Lease Areas 135 & 135A) and Lot 3, Plan VIP72153.

1.1.7. The location of the point where the discharge is authorized to occur is Latitude 49.2397N and Longitude 124.8219 W.

1.1.8. The operational certificate holder must not discharge under this authorization unless the Authorized Works are complete and fully operational.

1.2. Port Alberni Wastewater Treatment Facility to Ground

This section applies to the non-point source discharge of municipal effluent from the City of Port Alberni wastewater treatment facility to ground and groundwater through infiltration.

1.2.1 The maximum rate of discharge is indeterminate.

1.2.2 The discharge must not cause both groundwater and surface water quality at or beyond the City of Port Alberni wastewater treatment facility property boundary to exceed the applicable Water Quality Guidelines.

1.2.3 The authorized discharge period is continuous.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

- 1.2.4 The discharge is authorized from a fine screen and two-cell aerated lagoon run in parallel and related appurtenances approximately located as shown on Site Plan A.
- 1.2.5 The location of the facilities from which the discharge is authorized to originate and the discharge is 7TRI_Alberni (Lease Areas 135 & 135A) and Lot 3, Plan VIP72153.

2. **GENERAL REQUIREMENTS**

2.1. **Maintenance of Works and Emergency Procedures**

- 2.1.1 The operational certificate holder must regularly inspect the Authorized Works (except the submerged section of the outfall addressed in section 2.12.) and maintain them in good working order.
- 2.1.2 If components of the Authorized Works have a manufacturer's recommended maintenance schedule, then those components must, at a minimum, be maintained in accordance with that schedule.
- 2.1.3 The operational certificate holder must maintain a record of inspections and maintenance of the Authorized Works and make the record available to an officer upon request.
- 2.1.4 In the event of an emergency or other condition which prevents normal operation of the Authorized Works or leads to an unauthorized discharge, the operational certificate holder must take remedial action immediately to restore the normal operation of the Authorized Works and to prevent any unauthorized discharges. The operational certificate holder must immediately report the emergency or other condition and the remedial action that has and will be taken to the EnvironmentalCompliance@gov.bc.ca email address and the Indigenous Nations or as otherwise instructed by the director.

2.2. **Bypasses**

The operational certificate holder must not allow any discharge authorized by this authorization to bypass the Authorized Works, except with the prior written approval of the director.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

2.3. Standby Power

The operational certificate holder must provide auxiliary power facilities to ensure continuous operation of the Authorized Works during power outages.

2.4. Process Modifications

The operational certificate holder must notify the director in writing prior to implementing changes to any process that may adversely affect the quality and/or quantity of the discharge.

2.5. Lagoon Berm Assessment

The operational certificate holder must retain a qualified engineer to assess and make recommendations concerning the integrity of the lagoon berms, particularly with respect to protection against earthquakes, tsunamis, storm surges and sea level rise, including recommending an ongoing inspection frequency. The Lagoon Berm Assessment Report prepared by Qualified Professional must be submitted to the director by **September 30, 2021**.

2.6. Lagoon Berm Inspection

The operational certificate holder must retain a qualified engineer to inspect the lagoon berms to assess and make recommendations on their integrity at a frequency recommended in the Lagoon Berm Assessment report required under section 2.5.

2.7. Operating Plan

- 2.7.1.** The operational certificate holder must maintain and implement an Operating Plan prepared by a Qualified Professional for the lift stations, wastewater treatment facility and effluent disposal works.
- 2.7.2.** The Operating Plan must detail the proper operation, maintenance, and monitoring of the lift stations, wastewater treatment facility, and effluent disposal works. The Operating Plan is to be continually updated, as necessary, to reflect the current operation.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

- 2.7.3. The Operating Plan must include standard operating procedures for the Trigger Response Plan and the Managed Release Scenario outlined in the Receiving Environment Monitoring Program (section 3.4.) that include variable-specific triggers and responses including decision-tree flow charts.
- 2.7.4. The operational certificate holder must submit a copy of the Operating Plan to the director and Indigenous Nations. Any revisions to the Operating Plan must be submitted to the director and Indigenous Nations with the Annual Report (see section 4.5.). A copy of the Operating Plan must be retained at the City of Port Alberni wastewater treatment facility and made available for inspection by an officer upon request.

2.8. Contingency Plan

- 2.8.1. The operational certificate holder must maintain and implement a Contingency Plan for the lift stations, City of Port Alberni wastewater treatment facility, and effluent disposal works prepared by a Qualified Professional that will address the appropriate course of action to be taken in any preconceived emergency situation, including, but not limited to the following:
- a) An action plan for mitigating the impacts of tsunamis, earthquakes and storm surges.
 - b) Site specific spill response procedures, including the required training and resources to implement those procedures for each of the identified materials or risks during an emergency event.
 - c) Requirements and procedures for spill reporting and/or emergency notification to various levels of government including Indigenous Nations.
 - d) Procedure for establishing formal interagency communication for the duration of the emergency and clean-up as necessary.
 - e) Invite the Indigenous Nations to participate with the operational certificate holder in conducting scheduled emergency response drills and exercises to test and refine the Contingency Plan.
- 2.8.2. The operational certificate holder must submit a copy of the Contingency Plan to the director and Indigenous Nations. Any revisions to the Contingency Plan must be submitted to the director and

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

Indigenous Nations with the Annual Report (see section 4.5.). A copy of the Contingency Plan must be retained at the City of Port Alberni wastewater treatment facility and made available for inspection by an officer upon request.

2.9. Liquid Waste Management Plan Monitoring Committee

- 2.9.1. The operational certificate holder must maintain a Liquid Waste Management Plan Monitoring Committee (PMC) to provide advice to the City of Port Alberni on Liquid Waste Management Plan commitments and the receiving environment monitoring program (section 3.4.) including the managed release of effluent and trigger response plan.
- 2.9.2. Indigenous Nations must be invited to participate in the PMC.
- 2.9.3. The operational certificate holder must establish terms of reference for the PMC that define the purpose, mandate, membership, structure, meeting frequency, procedures, and reporting structure.
- 2.9.4. The operational certificate holder must seek endorsement on the Terms of Reference, and any revisions to the terms of reference, from the PMC and Indigenous Nations and submit a copy of the terms of reference to the director. Any revisions to the terms of reference must be submitted to the director with the Annual Report.

2.10. Facility Classification and Operator Certification

- 2.10.1. The operational certificate holder must have the Authorized Works classified, and the classification must be maintained with the Environmental Operators Certification Program (EOCP); and
- 2.10.2. The operational certificate holder must cause the Authorized Works to be operated and maintained by persons certified within and according to the program provided by the EOCP; and
- 2.10.3. The operational certificate holder must notify the director of the classification level of the wastewater treatment facility and certification levels of the operators, and changes of operators and/or operator certification levels within 30 days of any change.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

2.11. Posting of Outfalls

The operational certificate holder must erect and maintain a sign above the high-water mark along the alignment of the outfall and all overflow locations. The operational certificate holder must ensure that the sign meets the following criteria:

- (i) identifies the nature of the works including the risks to public health;
- (ii) indicates the length and depth of the outfall;
- (iii) has a surface area of at least 1m²;
- (iv) the colours of the lettering and the background of the sign contrast sufficiently with each other; and,
- (v) is located such that the wording is clearly visible from both land and water.

2.12. Outfall Inspection

The operational certificate holder must cause the outfall to be inspected once every five years under the direction of a qualified person to ensure it is in good working order. The operational certificate holder must submit an inspection report prepared by a Qualified Professional to the director and Indigenous Nations within 30 days after the inspection date. The first inspection report must be submitted by **October 31, 2022**.

2.13. Treatment Plant Sludge Wasting and Disposal

The operational certificate holder must dispose of sludge wasted from the treatment plant at a site and in a manner approved by the director, or as authorized by regulation under the *Environmental Management Act*.

2.14. Dilution Modelling Update

- 2.14.1.** Estimate the minimum dilution on a quarterly basis in 2023 using concurrent effluent and receiving environment water quality samples at the edge of the initial dilution zone (IDZ). Include a discussion of how the calculated minimum dilution based on monitoring data compares to the predicted dilution from the model in the Annual Report for that year.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

2.14.2. The operational certificate holder must update dilution modelling if monitoring data for effluent flow rate, effluent density and ambient density (at point of discharge) are +/- 20% of the assumed model inputs for these variables. If updated dilution modelling is not completed, then sufficient rationale should be provided by the operational certificate holder to demonstrate how the current monitoring program provides a reasonable validation of the original model results.

2.15. Closure Plan for Old Lagoon

2.15.1. The operational certificate holder must have a Closure Plan prepared by a Qualified Professional that describes procedures for decommissioning the old wastewater treatment lagoon.

2.15.2. The operational certificate holder must submit a copy of the Closure Plan to the director and Indigenous Nations by **March 7, 2023**.

2.15.3. The operational certificate holder must decommission the old wastewater treatment lagoon in accordance with the Closure Plan.

2.16. Restoration Plan for Old Lagoon

2.16.1. The operational certificate holder must have a Restoration Plan prepared by a Qualified Professional for the old wastewater treatment lagoon that will restore the lagoon to natural habitat including a monitoring program to evaluate the restoration efforts, timelines and costs.

2.16.2. The operational certificate holder must seek input from the Plan Monitoring Committee, Indigenous Nations, and the public on the Restoration Plan.

2.16.3. The Restoration Plan must be submitted to the director by **March 7, 2024**.

2.16.4. The operational certificate holder must restore the old lagoon in accordance with the Restoration Plan and within the timelines stipulated within.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

2.17. Liquid Waste Management Plan Review

2.17.1. The operational certificate holder must review their Liquid Waste Management Plan every five (5) years. The review must include an assessment of:

- a) Cost estimates;
- b) Objectives and outcomes;
- c) Approach and technologies;
- d) Regulations and standards;
- e) Official community plan and regional growth strategy;
- f) Public support for the plan.

The review must determine whether an amendment or update is required and ensure that the LWMP is still relevant and current and be carried out in accordance with the procedures described in the most recent edition of the “Interim Guidelines for Preparing Liquid Waste Management Plans”.

A copy of the above guidelines is available on the Ministry web page at <https://www2.gov.bc.ca/gov/content/environment/waste-management/sewage/liquid-waste-management-plans>

2.17.2. The first review must occur in 2026 and include a feasibility study of alternate locations for the wastewater treatment facility, alternate treatment methodologies and alternate receiving environments for the discharge.

2.18. Stormwater Management Plan

The operational certificate holder must develop a stormwater management plan prepared by a Qualified Professional by **December 31, 2028**, that includes an action plan with timelines and costs for addressing stormwater quality issues.

2.19. Overflow, and Inflow and Infiltration Requirements

2.19.1. The operational certificate holder must notify the public and Indigenous Nations within 12 hours of every overflow of untreated municipal effluent in addition to the requirements under the Spill Reporting Regulation.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

- 2.19.2.** Every 5-years, with the first report due on **March 31, 2026**, provide a report on progress towards the elimination of combined sewer overflows that includes the following:
- (i) The volume, frequency, and number of overflow occurrences for each overflow location.
 - (ii) An assessment of the potential impact of overflow occurrences on the receiving environment at each overflow location.
 - (iii) Overflow of storm and sewer upgrades undertaken during the period and an assessment of the impacts of those actions on overflows.
 - (iv) Based on items (i-iii), provide a plan designed by a Qualified Professional with cost estimates over the following 5-years to reduce the volume, frequency, and the number of overflow occurrences. This plan must be approved by the director.

3. MONITORING REQUIREMENTS

The director may alter the monitoring and reporting requirements in this operational Certificate as needed. The need for changes to the programs will be based on results submitted to the director as well as any other information obtained by the Ministry in connection with the discharges.

3.1. Flow Measurement

The operational certificate holder must install an effluent flow measuring device and record once per day the effluent volume discharged through the outfall under section 1.1 over a 24-hour period.

3.2. Non-Point Source Discharge to Ground

The operational certificate holder must provide a water balance prepared by a Qualified Professional to assess and estimate the average monthly volume of seepage to ground using influent and effluent flow data, precipitation, and evaporation rates.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

3.3. Effluent Quality

The operational certificate holder must assess the quality of the effluent authorized in section 1.1 as follows:

Parameter	Sample Type	Sample Frequency
CBOD ₅ (mg/L)	Composite	Twice/week
TSS (mg/L)	Composite	Twice/week
Ammonia-N (mg/L)	Composite	Twice/month
Total Phosphorus (mg/L)	Composite	Twice/month
Orthophosphorus (mg/L)	Composite	Twice/month
Total and dissolved metals (mg/L)	Composite	Monthly
Fecal coliform (unit/100mL)	Grab	Twice/month
E.coli (unit/100mL)	Grab	Twice/month
Enterococci (unit/100mL)	Grab	Twice/month
Toxicity (96-Hr RBT single concentration)	Grab	Twice/year (February and September)

3.4. Receiving Environment Monitoring

- 3.4.1. The operational certificate holder must undertake a comprehensive receiving environment monitoring program (“REMP”) in accordance with the approved Wastewater Treatment System Upgrades Pre-discharge and Operational Receiving Environment Monitoring Program (Associated Engineering, July 2021).
- 3.4.2. The REMP must include a trigger response plan for the managed release of effluent only on ebb tides if dissolved oxygen levels in the receiving environment have the potential to have an adverse effect on fish.
- 3.4.3. The REMP must include trigger response plan to implement planned contingency measures to address uncertainties associated with the non-point source discharges from the lagoon (section 1.2.). The trigger response plan must include escalating monitoring activities and management actions including reporting to the director and Indigenous Nations that will be triggered if water quality parameters measured at the groundwater and surface water monitoring sites and vegetation associated with monitoring the effects of seepage exceed triggers specified in the Plan.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

- 3.4.4. Where changes are proposed to the REMP, the operational certificate holder must obtain written approval from the director. Any revisions to the REMP must be discussed with the Plan Monitoring Committee and Indigenous Nations prior to submission to the director for written approval.

3.5. Sampling facilities

The operational certificate holder must install and maintain sampling facilities for the discharge and receiving environment monitoring locations as described in Section 3.

3.6. Sampling Procedures

- 3.6.1. The operational certificate holder must take due care in sampling, storing and transporting the samples to control temperature and avoid contaminations, breakage, and any other factor or influence that may compromise the integrity of the samples.
- 3.6.2. The operational certificate holder must carry out sampling in accordance with the procedures described in the most recent edition of the "British Columbia Field Sampling Manual for Continuous Monitoring and the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples " or by alternative procedures as authorized by the director.

A copy of the above manual is available on the Ministry web page at <https://www2.gov.bc.ca/gov/content/environment/research-monitoring-reporting/monitoring/laboratory-standards-quality-assurance/bc-field-sampling-manual>

3.7. Analytical Procedures

The operational certificate holder must carry out analyses in accordance with procedures described in the most recent edition of the "British Columbia Laboratory Manual", or by alternative procedures as authorized by the director. A copy of the above manual is available on the Ministry web page at <https://www2.gov.bc.ca/gov/content/environment/research-monitoring-reporting/monitoring/laboratory-standards-quality-assurance/bc-field-sampling-manual>

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

3.8. Quality Assurance

- 3.8.1.** The operational certificate holder must obtain from the analytical laboratory(ies) their precision, accuracy and blank data for each sample set submitted by the operational certificate holder and an evaluation of the data acceptability, based on criteria set by such laboratory.
- 3.8.2.** The operational certificate holder must prepare and submit for analysis by the analytical laboratory(ies) duplicates of at least ten percent of the samples collected at each monitoring location sampling event to provide for quality assurance.
- 3.8.3.** The operational certificate holder must submit samples to the analytical laboratory(ies) that meet the definition of a qualified laboratory under the Environmental Data Quality Assurance Regulation.

4. REPORTING REQUIREMENTS

4.1. EMS Reporting

The operational certificate holder must ensure all monitoring data analyzed by a qualified laboratory is uploaded to the EMS database within 30 days of the date of sample collection.

The following EMS ID's are assigned to the effluent and receiving environment monitoring sites:

Site	EMS ID	Description
Effluent	E325851	After treatment prior to discharge
A	E317671	100m north of diffuser
B	E317672	100m south of diffuser
C	E317673	400m southwest of diffuser
D	E317674	400m south of diffuser
E	E317675	Reference site 660 m southwest of diffuser
F	E317676	Reference site 760 southwest of diffuser
Z	E317670	400m north of the diffuser
H	E327680	Hupačasath wharf

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

I	E327681	Marina reference
T1	E327671	Tidal channel
T2	E327672	Tidal channel
T3	E327673	Tidal channel
P1	E327674	Piezometer on east side of lagoon
P4	E327675	Piezometer on south-east side of lagoon on beach
MW21-1	E327676	Reference well
MW21-2	E327677	Monitoring well on south side of lagoon
MW21-3a	E327678	Monitoring well on west side of lagoon - shallow
MW21-3b	E327679	Monitoring well on west side of lagoon - deep

4.2. **Routine Submission of Reports**

The operational certificate holder must submit all reports required to be submitted under this section by email to the Ministry's Routine Environmental Reporting Submission Mailbox (RERSM) at envauthorizationsreporting@gov.bc.ca or as otherwise instructed by the director.

For guidelines on how to properly name the files and email subject lines or for more information visit the Ministry website:

<https://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/data-and-report-submissions/routine-environmental-reporting-submission-mailbox>

4.3. **Non-compliance Notification**

The operational certificate holder must immediately notify the director by email at EnvironmentalCompliance@gov.bc.ca, or as otherwise instructed by the director, of any non-compliance with the requirements of this authorization and must immediately take remedial action to remedy any effects of such non-compliance.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

4.4. Non-compliance Reporting

4.4.1. The operational certificate holder must, within 30 days of any non-compliance event, submit to the director a written report that includes, but is not necessarily limited to, the following:

- a) all relevant test results obtained by the operational certificate holder related to the non-compliance,
- b) an explanation of the most probable cause(s) of the non-compliance, and
- c) a description of remedial action planned and/or taken by the operational certificate holder to prevent similar non-compliance(s) in the future.

4.4.2. The operational certificate holder must submit all non-compliance reporting required to be submitted under this section by email to the Ministry's Compliance Reporting Submission Mailbox (CRSM) at EnvironmentalCompliance@gov.bc.ca or as otherwise instructed by the director.

For guidelines on how to report a non-compliance or for more information visit the Ministry website:

<https://www2.gov.bc.ca/gov/content?id=076C5CA3ABD342A784CC49EC78CBAE12>

4.5. Annual Report

The operational certificate holder must, by March 31st of each year, submit to the director an Annual Report that includes, but is not limited to:

- a) A compendium of the municipal effluent flow, municipal effluent quality and receiving environment monitoring data.
- b) A discussion of the impact of landfill leachate on effluent quality;
- c) A statement outlining the number of non-compliance with the authorization requirements that occurred during the reporting period, the dates of each such non-compliances, an explanation as to the cause of the non-compliance, and a description of the measures taken by the operational certificate holder to rectify the cause of each such non-compliance. If compliance occurred over the reporting period, the required statement must indicate that no non-compliances of the authorization occurred during the reporting period;

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

- d) A comparison of receiving environment monitoring results to the appropriate Water Quality Guidelines and a discussion of the effect of any exceedances on the quality of the receiving environment, using appropriate statistical and graphical analysis.
- e) Include summary tables of parameters discussed to relate data spatially and to data compare between sites and over time for parameters discussed;
- f) Any trends in environmental quality in the receiving environments affected by the discharge, using background and pre-discharge data and all the years of record in which the discharge has taken place;
- g) All laboratory reports of data collected under this authorization;
- h) A summary of all quality assurance/quality control (QA/QC) issues during the calendar year;
- i) Include recommendations from the Plan Monitoring Committee and how they have been addressed including copies of the Plan Monitoring Committee minutes;
- j) An evaluation of the performance of the authorized works and any planned improvements of wastewater facilities for the coming year;
- k) Discuss any implementation of managed release of effluent during ebb tides (section 3.4.2) for the previous year;
- l) Discuss any implementation of the trigger response plan for the non-point source discharge (section 3.4.3.) for the previous year;
- m) Outfall inspection report (section 2.12.), when applicable;
- n) Updated dilution modelling, when applicable (section 2.14);
- o) Stormwater management plan, when applicable (section 2.18);
- p) Combined sewer overflow elimination report, when applicable (section 2.19);
- q) A revised Operating Plan and/or Contingency Plan and/or Plan Monitoring Committee Terms of Reference, when applicable.

4.6. Reporting to Indigenous Nations

The operational certificate holder must submit copies of the Annual Report to the following Indigenous Nations, Hupačasath First Nation and Tseshaht First Nation, unless otherwise agreed to by the Indigenous Nations by email, unless otherwise agreed to by the Indigenous Nations.

The operational certificate holder may not omit any information from the original version of the document, as submitted to the director, without the prior approval of the director.

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

5. GLOSSARY

Capitalized terms referred to in this authorization are defined in the attached Glossary. Other terms used in this authorization have the same meaning as those defined in the Environmental Management Act and applicable regulations.

5.1. "Authorized Works"

"Authorized Works" means [[Authorized Works]] as stated in Section 1.1.4.

5.2. "Indigenous Nations"

"Indigenous Nations" refers to the Tseshah First Nation and the Hupačasath First Nation.

5.3. "Initial Dilution Zone"

"Initial Dilution Zone" is the 3-dimensional zone around the point of discharge where mixing of the municipal effluent and the receiving water occurs.

For the purpose of calculating the initial dilution zone for an estuary, all of the following, measured from the point of discharge and from mean low water apply:

- (i) The height is the distance from the bed to the water surface;
- (ii) The width, perpendicular to the path of the stream, is the lesser of
 - a. 100m, and
 - b. 25% of the width of the estuary;
- (iii) The length, parallel to the path of the stream, is the distance between a point 100 m upstream and a point that is the lesser of
 - a. 100 m downstream, and
 - b. A distance downstream at which the width of the municipal effluent plume equals the width determined under paragraph (ii).

5.4. "Province"

"Province" means Her Majesty the Queen in right of British Columbia;

Date issued: March 7, 2022



Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

5.5. "Qualified Professional"

"Qualified Professional" means an applied scientist or technologist specializing in an applied science or technology applicable to the duty or function, including, if applicable and without limiting this, agrology, biology, chemistry, engineering, geology or hydrogeology and who:

- (i) is registered with the appropriate professional organization, is acting under that organization's code of ethics and is subject to disciplinary action by that organization, and
- (ii) through suitable education, experience, accreditation and/or knowledge, may be reasonably relied on to provide advice within their area of expertise.

All documents submitted to the Director by a Qualified Professional must be signed by the author(s).

5.6. "Regulatory Document"

"Regulatory Document" means any document that the operational certificate holder is required to provide to the director or the Province pursuant to:

- (i) this Authorization;
- (ii) any regulation made under the *Environmental Management Act* that regulates the facility described in this Authorization or the discharge of waste from that facility; or
- (iii) any order issued under the *Environmental Management Act* directed against the operational certificate holder that is related to the facility described in this authorization or the discharge of waste from that facility.

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Liz Archibald, P.Ag.
for Director, *Environmental Management Act*
Authorizations - South Region

5.7. “Toxicity”

“Toxicity” means a 96-Hr rainbow trout single concentration test. Effluent is acutely toxic if there is greater than 50% mortality during a 96-hour Rainbow Trout (*Oncorhynchus mykiss*) single concentration acute toxicity test in a 100% effluent concentration using “ Biological Test Method: Reference Method for Determining Acute Lethality of Effluent to Rainbow Trout, EPS 1/RM/13 “Second Edition December 2000” and if applicable, Procedure for pH Stabilization During the Testing of Acute Lethality of Wastewater Effluent to Rainbow Trout, EPS 1/RM/50 . For the Pass/Fail of a single concentration test an effluent sample is considered to have passed (Pass) if at 100% effluent concentration $\leq 50\%$ of the test fish die after 96-hours of exposure, the test is considered to have failed (Fail) if $> 50\%$ of the test fish die after 96-hours. Test results must be reported in percent (%) mortality.

5.8. “Water Quality Guidelines”

“Water Quality Guidelines” means, as published under the authority of the minister,

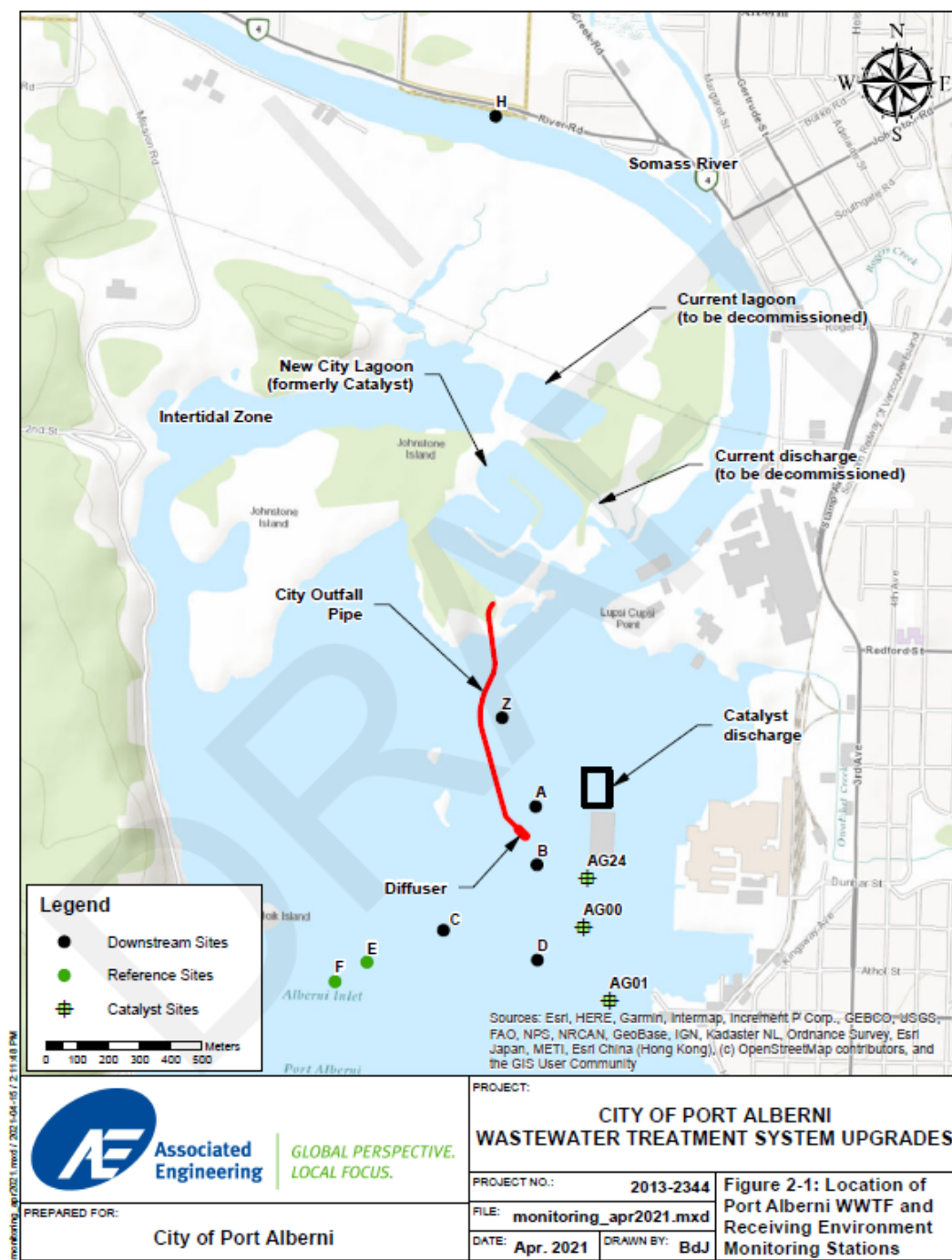
- (i) The water quality guidelines that, by approval of the minister, apply in British Columbia to groundwater and surface water;
- (ii) In relation to a body of water for which water quality objectives have been established, the most recent water quality objectives,
- (iii) If neither of paragraphs (a) or (b) applies, any other quality standard acceptable to the minister such as the Contaminated Sites Regulation Schedule 3.2 and the Canadian Council of Ministers of the Environment Canadian Environmental Quality Guidelines.

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SITE PLAN A



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