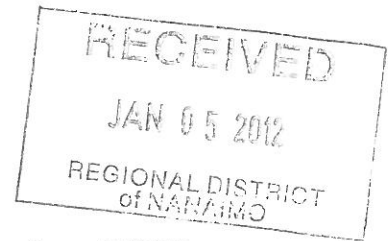


Appendix C – Operational Certificate for Landfill



December 30, 2011

Tracking Number: 155174  
Authorization Number: 1714

**REGISTERED MAIL**

REGIONAL DISTRICT OF NANAIMO  
6300 HAMMOND BAY RD.  
NANAIMO, BC  
V9T 6N2

Dear Operational Certificate Holder:

Enclosed is Amended Operational Certificate 1714 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 Fees Regulation.

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.

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 West Coast Region. Plans, data and reports pertinent to the operational certificate are to be submitted to the Regional Manager, Environmental Protection, at Ministry of Environment, Regional Operations, West Coast Region, 2080A Labieux Road, Nanaimo, BC V9T 6J9.

Yours truly,



Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region

Enclosure

cc: Environment Canada

**OPERATIONAL CERTIFICATE**

1714

*Under the Provisions of the Environmental Management Act*

**REGIONAL DISTRICT OF NANAIMO**

**6300 HAMMOND BAY RD.  
NANAIMO, BC  
V9T 6N2**


is authorized to manage waste and recyclable material from the Regional District of Nanaimo and environs at the regional landfill located in Nanaimo, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the Environmental Management Act and may result in prosecution. This Operational Certificate supersedes and amends all previous versions of Operational Certificate 1714.

1. **DESIGN AND OPERATIONS PLAN**

1.1 **Design and Operations Plan**

- 1.1.1 The operational certificate holder must design, construct, operate, maintain, monitor, close and carry out post-closure, in accordance with the latest version of the Design and Operations Plan by XCG Consultants Ltd., prepared November 2, 2009, as amended from time to time in accordance with 1.1.3 (hereinafter referred to as "the Design and Operations Plan"), and the conditions of this Operational Certificate.
- 1.1.2 The Design and Operations Plan must address the ministry Landfill Criteria for Municipal Solid Waste, as amended from time to time, or its replacement approved by the Director in writing.
- 1.1.3 Only the Director may amend the Design and Operations Plan in writing. Any other amendments to the Design and Operations Plan are without effect unless the Director has approved of such amendments in writing.

Date issued: November 5, 1973  
Date amended: December 30, 2011  
(most recent)



Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region

## 2. MANAGEMENT OF WASTE AND RECYCLABLE MATERIAL

### 2.1 Waste

- 2.1.1 Waste may be discharged to the regional landfill approximately located as shown on Site Plan A. Waste must not be discharged outside the 24.0 hectare landfill footprint area specified in the Design and Operations Plan. Final elevations of the landfill must not exceed those specified in the Design and Operations Plan.
- 2.1.2 The characteristics of the discharge must be:  
(a) municipal solid waste as defined in the Environmental Management Act, or,  
(b) other waste as specified in writing by the Director.
- 2.1.3 The authorized works are an engineered sanitary landfill and related appurtenances as specified in the Design and Operations Plan.


### 2.2 Leachate

- 2.2.1 Leachate must be collected and conveyed to the municipal sewage collection system.
- 2.2.2 The authorized works are engineered landfill liners, leachate collection works, north and south sanitary pipelines, lift stations, and related appurtenances as specified in the Design and Operations Plan.

### 2.3 Surface Water

- 2.3.1 Surface water must be collected, retained, detained and conveyed as specified in the Design and Operations Plan.
- 2.3.2 The authorized works are west wetland, north stormwater pond, south stormwater pond, north and south stormwater pipelines, and related appurtenances as specified in the Design and Operations Plan.

Date issued: November 5, 1973  
Date amended: December 30, 2011  
(most recent)

  
Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region

## 2.4 Ground and Surface Water Quality

- 2.4.1 The quality of ground and surface water at the property boundary must not exceed the appropriate (e.g. freshwater aquatic life, drinking water, etc.) water quality criteria in the British Columbia Approved Water Quality Guidelines and A Compendium of Working Water Quality Guidelines for British Columbia, as amended from time to time, or their replacements approved by the Director in writing. Where natural background water quality exceeds the appropriate water quality criteria, the quality of ground and surface water at the property boundary must not exceed natural background water quality. Water quality criteria from other jurisdictions can only be used for contaminants which have not been dealt with in the British Columbia Guidelines. After considering existing and potential future uses of ground and surface water, a qualified professional may recommend the appropriate water quality criteria. The appropriate water quality criteria are subject to the approval of the Director in writing.

## 2.5 Landfill Gas

- 2.5.1 Landfill gas must be managed in accordance with sections 4.2 and 6.4 of the ministry Landfill Criteria for Municipal Solid Waste, as amended from time to time, or its replacement approved by the Director in writing.

## 2.6 Other Facilities

- 2.6.1 The authorized facilities are perimeter fencing, perimeter access road, lockable gate(s), signs, weigh scales, waste and recyclable material drop-off and storage facilities, wash bay with berms and oil-water separator and connection to sanitary sewer, and related appurtenances as specified in the Design and Operations Plan.

## 2.7 Authorized Facilities and Works

- 2.7.1 The authorized facilities and works must be complete and in operation on and from the date of this Operational Certificate as specified in the Design and Operations Plan.

Date issued: November 5, 1973  
Date amended: December 30, 2011  
(most recent)



Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region

## 2.8 Location

- 2.8.1 The location of the facilities for the management of waste and recyclable material to which this Operational Certificate is applicable is Lot A, Section 2, Nanaimo District, Plan 49841, except that part in Plan VIP58345 and VIP66090, AND, Lot 1, Sections 2 and 3, Nanaimo District, Plan 48020 except Plan VIP66090.

## 3. GENERAL

### 3.1 Qualified Professionals

- 3.1.1 All information, including plans, drawings, assessments, investigations, surveys, programs and reports, must be certified by a qualified professional. As-built plans and drawings of the facilities and works must be certified by a qualified professional.
- 3.1.2 "qualified professional" means a person who  
(a) is registered in British Columbia with his or her appropriate professional association, acts under that professional association's code of ethics, and is subject to disciplinary action by that professional association, and  
(b) through suitable education, experience, accreditation and knowledge may be reasonably relied on to provide advice within his or her area of expertise as it relates to this Operational Certificate.
- 3.1.3 Personnel must be trained to industry standards and at least one employee of the operational certificate holder must be trained and certified as a Manager of Landfill Operations or a British Columbia Qualified Landfill Operator by the Solid Waste Association of North America or equivalent.

### 3.2 Additional Information, Facilities or Works

- 3.2.1 The Director may, in writing, require investigations, surveys, the submission of additional information, and the construction of additional facilities or works. The Director may also, in writing, amend the information, including plans, drawings, assessments, investigations, surveys, programs and reports, required by this Operational Certificate. Any amendments to the information are without effect unless the Director has approved of such amendments in writing.

Date issued: November 5, 1973  
Date amended: December 30, 2011  
(most recent)



Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region

#### 4. MONITORING AND REPORTING

##### 4.1 Environmental Monitoring Program

- 4.1.1 The operational certificate holder must conduct an environmental monitoring program as specified in the Design and Operations Plan.

##### 4.2 Annual Operations and Monitoring Report

- 4.2.1 The operational certificate holder must submit an Annual Operations and Monitoring Report to the Director on or before March 31 of each year for the previous calendar year. The report must satisfy the Design and Operations Plan and include:


- (a) Executive Summary;
- (b) Types and tonnages of waste discharged into the landfill;
- (c) Landfill volume used and remaining, and estimated landfill closure date;
- (d) Leachate quantities and qualities collected, conveyed and discharged;
- (e) Landfill gas quantities and qualities collected, flared, and utilized;
- (f) Review of the previous year and plans for the current year;
- (g) Results of the environmental monitoring program, interpretation, assessment, conclusions and recommendations;
- (h) Any proposed changes to the Design and Operations Plan including the environmental monitoring program;
- (i) Closure/post-closure fund form and amount, and estimated closure/post-closure fund contributions, disbursements and amount, for each year, until at least 25 years after closure;
- (j) In the event of any non-compliance with this Operational Certificate, an action plan and schedule to achieve compliance.

#### 5. CLOSURE AND POST-CLOSURE

##### 5.1 Closure/Post-Closure Fund

- 5.1.1 The operational certificate holder must maintain a closure/post-closure fund in a form and amount acceptable to the Director. The amount of the closure/post-closure fund must meet or exceed the estimated closure and post-closure costs plus a reasonable contingency for any remediation that may be required.

Date issued: November 5, 1973  
Date amended: December 30, 2011  
(most recent)

  
Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region



5.2 **Closure/Post-Closure Plan**

- 5.2.1 The operational certificate holder must submit a closure/post-closure plan to the Director at least 2 years before the closure date of the landfill. The closure/post-closure plan must address the ministry Landfill Criteria for Municipal Solid Waste, as amended from time to time, or its replacement approved by the Director in writing.

Date issued: November 5, 1973  
Date amended: December 30, 2011  
(most recent)



Blake W. Medlar  
for Director, *Environmental Management Act*  
West Coast Region

