



**REGIONAL DISTRICT
of Fraser-Fort George**

**FOOTHILLS BOULEVARD REGIONAL LANDFILL
2024 ANNUAL REPORT
PRINCE GEORGE, BRITISH COLUMBIA**

Prepared by:

THE REGIONAL DISTRICT OF FRASER-FORT GEORGE
155 George Street
Prince George, British Columbia
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Laura Zapotichny
General Manager of Environmental Services



March 3, 2026

Attention: British Columbia Ministry of Environment and Parks

Subject: Qualified Professional Annual Report Review
Foothills Boulevard Regional Landfill 2024 Annual Report

The Regional District of Fraser-Fort George has retained Tetra Tech Canada Inc. (Tetra Tech) as a Qualified Professional (QP) to review the Foothills Boulevard Regional Landfill (the Site) 2024 Annual Report (Annual Report).

Relevant third-party information, which has been relied upon, has been used in, and/or is appended to this report. Tetra Tech has reviewed the Annual Report and, based on the information provided and knowledge of the Site, Tetra Tech is in general agreement with the information provided. Tetra Tech has reviewed the information presented in the Annual Report and is not responsible for the information that is included, or that may have been omitted.

Respectfully submitted,
Tetra Tech Canada Inc.

2026-03-04



Reviewed by:
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PERMIT TO PRACTICE
TETRA TECH CANADA INC.
PERMIT NUMBER: 1001972

/js

Enclosure: Declaration of Competency
Conflict of Interest Disclosure Statement

Declaration of Competency

The Ministry of Environment and Climate Change Strategy relies on the work, advice, recommendations and in some cases decision making of qualified professionals¹, under government's professional reliance regime. With this comes an assumption that professionals who undertake work in relation to ministry legislation, regulations and codes of practice have the knowledge, experience and objectivity necessary to fulfill this role.

1. Name of Qualified Professional Michel Lefebvre, M.Sc., P.Eng.
Title Senior Project Engineer

2. Are you a registered member of a professional association in B.C.? Yes No

Name of Association: Engineers & Geoscientists BC Registration # 26071

3. Brief description of professional services:

Qualified Professional Review of Landfill Annual Reports 2024 for the Regional District of Fraser-Fort George.

This declaration of competency is collected under section 26(c) of the *Freedom of Information and Protection of Privacy Act* for the purposes of increasing government transparency and ensuring professional ethics and accountability. By signing and submitting this statement you consent to its publication and its disclosure outside of Canada. This consent is valid from the date submitted and cannot be revoked. If you have any questions about the collection, use or disclosure of your personal information please contact the Ministry of Environment and Climate Change Strategy Headquarters Office at 1-800-663-7867.

Declaration

I am a qualified professional with the knowledge, skills and experience to provide expert information, advice and/or recommendations in relation to the specific work described above.

Signature: 
X 

Print Name: Michel Lefebvre

Witnessed by: 
X 

Print Name: Lauren Quan

Date signed: March 3, 2026

¹ *Qualified Professional, in relation to a duty or function under ministry legislation, means an individual who*

- a) *is registered in British Columbia with a professional association, is acting under that organization's code of ethics, and is subject to disciplinary action by that association, and*
- b) *through suitable education, experience, accreditation and knowledge, may reasonably be relied on to provide advice within his or her area of expertise, which area of expertise is applicable to the duty or function.*

Conflict of Interest Disclosure Statement

A qualified professional¹ providing services to either the Ministry of Environment and Climate Change Strategy (“ministry”), or to a regulated person for the purpose of obtaining an authorization from the ministry, or pursuant to a requirement imposed under the *Environmental Management Act*, the *Integrated Pest Management Act* or the *Park Act* has a real or perceived conflict of interest when the qualified professional, or their relatives, close associates or personal friends have a financial or other interest in the outcome of the work being performed.

A real or perceived conflict of interest occurs when a qualified professional has

- a) an ownership interest in the regulated person’s business;
- b) an opportunity to influence a decision that leads to financial benefits from the regulated person or their business other than a standard fee for service (e.g. bonuses, stock options, other profit sharing arrangements);
- c) a personal or professional interest in a specific outcome;
- d) the promise of a long term or ongoing business relationship with the regulated person, that is contingent upon a specific outcome of work;
- e) a spouse or other family member who will benefit from a specific outcome; or
- f) any other interest that could be perceived as a threat to the independence or objectivity of the qualified professional in performing a duty or function.

Qualified professionals who work under ministry legislation must take care in the conduct of their work that potential conflicts of interest within their control are avoided or mitigated. Precise rules in conflict of interest are not possible and professionals must rely on guidance of their professional associations, their common sense, conscience and sense of personal integrity.

Declaration

I Michel Lefebvre, as a member of Engineers & Geoscientists BC
declare

Select one of the following:

Absence from conflict of interest

Other than the standard fee I will receive for my professional services, I have no financial or other interest in the outcome of this work involving annual report reviews.

I further declare that should a conflict of interest arise in the future during the course of this work, I will fully disclose the circumstances in writing and without delay to Leonard Cook Ministry Contact Name, erring on the side of caution.



Real or perceived conflict of interest

Description and nature of conflict(s):

I will maintain my objectivity, conducting my work in accordance with my Code of Ethics and standards of practice.

In addition, I will take the following steps to mitigate the real or perceived conflict(s) I have disclosed, to ensure the public interest remains paramount:

Further, I acknowledge that this disclosure may be interpreted as a threat to my independence and will be considered by the statutory decision maker accordingly.

This conflict of interest disclosure statement is collected under section 26(c) of the *Freedom of Information and Protection of Privacy Act* for the purposes of increasing government transparency and ensuring professional ethics and accountability. By signing and submitting this statement you consent to its publication and its disclosure outside of Canada. This consent is valid from the date submitted and cannot be revoked. If you have any questions about the collection, use or disclosure of your personal information please contact the Ministry of Environment and Climate Change Strategy Headquarters Office at 1-800-663-7867.

Signature: _____
X _____

Witnessed by: _____
X _____

Print name: Michel Lefebvre

Print name: Lauren Quan

Date: March 3, 2026

¹Qualified Professional, in relation to a duty or function under ministry legislation, means an individual who
a) is registered in British Columbia with a professional association, is acting under that organization's code of ethics, and is subject to disciplinary action by that association, and
b) through suitable education, experience, accreditation and knowledge, may reasonably be relied on to provide advice within his or her area of expertise, which area of expertise is applicable to the duty or function.

EXECUTIVE SUMMARY

This 2024 Annual Operations Report has been prepared for the Foothills Boulevard Regional Landfill (Site) located in the northwest portion of the City of Prince George, British Columbia at 6595 Foothills Boulevard, northwest of the intersection with West Austin Road. The landfill site has a total permitted area of approximately 87.3 hectares.

The objective of the 2024 Annual Operations Report is to summarize the development of the Site for the period of January 1, 2024 to December 31, 2024. The results of the Environmental Monitoring Program were submitted to the British Columbia Ministry of Environment and Climate Change Strategy (BC MOECCS) in the report entitled, “2024 Annual Groundwater Monitoring Report Foothills Boulevard Regional Landfill” generated by Tetra Tech Canada Inc.

The landfill operated by the City of Prince George commenced at the Site in 1976 and was operated until 1994, when the RDFFG took over management of the Site. It currently operates under Operational Certificate MR-01697, issued October 31, 2005 by the BC MOECCS under the provisions of the *Environmental Management Act* and in accordance with the Regional District of Fraser-Fort George Solid Waste Management Plan. The quantity of materials received which were recycled, used as landfill cover, or composted at the Site during the reporting period was approximately 26,582 tonnes. According to the RDFFG records, there were five composting cycles in 2024 which included yard and garden waste, grass, and manure. The total amount of composted material sold in 2024 was 6,086 cubic metres.

According to the weigh scale records, approximately 70,552 tonnes of waste was landfilled at the Site during the 2024 reporting period. The conservative waste projection for 2024 presented in the draft “Integrated Landfill Management Plan,” prepared by XCG (March 2010) projected the lifespan for the Site to approximately 2032. Based on the information currently available, the lifespan of Cell 1 (current fill area) will not likely extend beyond mid-2030.

In recognition of this date the Regional District has commenced the process of exploring and considering the next phase site development.

The remaining operations airspace for Cell 1, as of August 2009, was reported as an estimated value of 2 million cubic metres (excluding final cover).

Based on a comparison of the May 10, 2024, and April 22, 2025, topographical contours, approximately 122,848 cubic metres of airspace was consumed at the Site for the period in which the survey took place. Of which, 61,868 cubic meters were filled within Fill Area 1, in the southern area of Cell One, 47,740 cubic meters were filled within Fill Area 2 in the northern section of Cell One, and finally 13,240 cubic meters were filled in Fill Area 3, located in the eastern section of Cell. It is estimated that the remaining airspace for Cell 1 is approximately 540,353 cubic metres as of April 22, 2025.

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1. INTRODUCTION

The objective of the Annual Operations Report is to summarize the development and operations of the Site for the period of January 1, 2024 to December 31, 2024 (Reporting Period). The results of the Environmental Monitoring Plan are submitted to the British Columbia Ministry of Environment and Parks (BC MOEP) under separate cover.

This report fulfills the annual reporting requirements outlined in Section 8.2 of the Operational Certificate (OC) MR-01697, issued by the BC MOEP on October 31, 2005.

2. SITE AND REGULATORY SETTING

2.1 Site Description

The Site is located in the northwest portion of the City of Prince George, British Columbia at 6595 Foothills Boulevard, northwest of the intersection with West Austin Road. The legal description of the Site is Block A of the northwest ¼ of District Lot 4053 and Block A of the northwest ¼ of District Lot 4048, Cariboo District. The location of the Site is shown on Figure 1.

The Site property (Figure 2) is bounded to the east by Foothills Boulevard and to the south by a gravel pit maintained and operated by the BC Ministry of Transportation and Infrastructure. The Site is bounded to the north and west by naturalized northern coniferous forest. A residential area, referred to as the Hart Highlands area of Prince George, is located approximately 500 metres east of the Site, and a sport and recreation facility is located approximately 250 metres east of the Site entrance. The Site is located approximately 2.5 kilometres north of the Nechako River.

The Site serves a population of approximately 96,900 people (as per Statistics Canada 2021 Census) and receives approximately 98 percent of the regional solid waste stream (Gartner Lee Ltd., 2008). The Site accepts waste from the Prince George municipal and commercial collection services, the general public, local institutions, businesses, numerous regional transfer stations, the District of Mackenzie and the villages of McBride and Valemount.

The property boundary for the Site encompasses an area of approximately 87.3 hectares. The landfill, composting, and recycling activities conducted at the Site encompass an area of approximately 25 hectares within the permitted landfill property.

2.2 Background

The presence of the gravel pit located immediately south of the Site is believed to be evidence that the original use of the Site was for gravel extraction. A landfill operated by the City of Prince George commenced at the Site in 1976 and was operated until 1994, when the RDFFG took over management of the Site. Since that time, a number of changes have been made to the Site, including the following (AMEC, 2006):

- Installation or upgrade of site utilities including municipal water supply and a three-phase hydro service;
- Construction of a scale house/operating building and installation of two 80-tonne weigh scales commissioned in January 1995;
- Development of a composting site for green waste, and animal bedding;
- Installation of groundwater monitoring wells and continuation of the Site monitoring program;
- In 2002, final cover, landfill gas collection and flare infrastructure, and a condensate and leachate recirculation system were designed and constructed for the eastern portion of the landfill;
- The Site is 100% fenced by a chain link fence as of September 2013;

- A Leachate force main was constructed in 2015 to allow for eventual leachate discharge into the wastewater collection system of City of Prince George;
- Between 2017 and 2020 the landfill gas (LFG) main header perimeter pipe and main perimeter road were completed;
- In May 2020 the Landfill commenced offsite discharge of landfill leachate to the City of Prince George wastewater collection system and treatment facility;
- In 2021 the South Slope LFG Gas wellfield expansion consisting of 16 vertical LFG collection wells was completed; and in 2024 an additional 8 vertical LFG collection wells were constructed on the Northwest slope.
- The remediation of 5.2 hectares of final closed area of Cell 1 commenced in 2020, addressing infrastructure failure and providing additional air space. The project was completed in July of 2022 with the completion of the removal of final cover.

2.3 **Regulatory Setting**

The Site currently operates under OC MR-01697 issued October 31, 2005 by the BC MOEP under the provisions of the *Environmental Management Act*. The following section provides an overview of the regulatory environment which governs landfill design, operations, and closure of the Site.

2.3.1 **Provincial Regulations**

There are currently seven documents published by the BC MOECCS, which regulate landfill design, operations, and monitoring:

- Landfill Criteria for Municipal Solid Waste, Second Edition (June 2016);
- Guidelines for Environmental Monitoring at Municipal Solid Waste Landfills (January 1996);
- Hazardous Waste Regulation, (March 2024);
- Contaminated Sites Regulation, (March 1, 2023);
- Organic Matter Recycling Regulation, (June 30, 2023)
- Environmental Management Act (October 2003); and
- Landfill Gas Management Regulation (March 2020).

2.3.1.1 **Landfill Operational Certificate**

The landfill is currently approved to operate under Operational Certificate No. MR-01697 issued by the BC MOECCS on October 31, 2005. Key elements of this approval with respect to design, operation, closure and monitoring include the following:

- The Regional District is required to monitor wildlife (medium and large carnivores) activity at the facility and keep records of occurrences and observations of wildlife (medium and large carnivores);
- Composting facilities shall be operated and maintained in accordance with the *Organic Matter Recycling Regulation*;
- The management of landfill gas shall be managed in accordance with Sections 4.2 and 9.3 of the *Landfill Criteria for Municipal Solid Waste*;

- Waste asbestos is authorized for disposal subject to compliance with the requirements of Section 40 of the *Hazardous Waste Regulation* and the following conditions:
 - The asbestos waste may not be mixed with any other hazardous waste.
 - The Regional District must approve the disposal before disposal takes place.
 - All other applicable requirements of the *Hazardous Waste Regulation*, including but not limited to manifesting and waste record keeping, must also be complied with.
- The *Environmental Management Act*, the *Contaminated Sites Regulation* and the *Hazardous Waste Regulation* are applicable for the disposal of impacted (contaminated) soil at the facility;
- Hazardous wastes resulting from accidental spills or abandonment of dangerous goods may be accepted at the facility only under the authority of Section 52(1) of the *Hazardous Waste Regulation*;
- A monitoring program shall be developed by a qualified professional to identify potential impacts to the environment and public health from the facility; and
- The monitoring program must address, but not be limited to, subsections 4.1 and 9.2 of the *Landfill Criteria for Municipal Solid Waste* and the *Guidelines for Environmental Monitoring at Municipal Solid Waste Landfills*.

A copy of the Operational Certificate is included as Appendix A.

2.3.2 Permit Amendment

In October of 2021 a certificate amendment (See Appendix B) was issued by the MOECCS to ensure the continued proper handling and disposal of waste asbestos was carried out at the Foothills Blvd Regional Landfill facility in accordance with Hazardous Waste Regulation.

To ensure compliance with this amendment staff carry out an inspection and reporting program regarding all asbestos received at the facility.

3. LANDFILL OPERATION AND MANAGEMENT

3.1 Site Operations

The Foothills Boulevard Regional Landfill is currently operated under Operational Certificate MR-01697 issued by the BC MOEP, Ministry of Environment and Parks, on October 31, 2005. The Site accepts municipal solid waste from the approved service area. In addition, the Site collects recyclable materials as part of the RDFFG’s waste diversion initiative.

Under the Operational Certificate, waste asbestos is accepted through an application process with prior approval and is restricted in delivery to specific times and days of the week.

3.2 Site Facilities

100% of the perimeter of the landfill is secured with a fence. Access to the Site is provided via Foothills Boulevard, northwest of the intersection with West Austin Road. Access gates control entrance and/or exit from the Site at this location. The gate is locked outside of normal operating hours to prohibit vehicle entrance and uncontrolled disposal when the Site is closed.

Existing facilities located at the Site include the following (Figure 3):

- Scale house;
- Public tipping area;
- Asphalt compost area; and
- Landfill gas utilization facility.

Signage is provided at the site entrance and throughout the Site as follows:

- Site owner;
- Traffic control and directions;
- Hours of operation; and
- Tipping fees.

Normal operating hours for the site are as follows:

| | |
|------------------|--------------------|
| Monday to Friday | 7:00 AM to 5:00 PM |
| Saturday | 9:00 AM to 5:00 PM |
| Sunday | 9:00 AM to 5:00 PM |

The facility operates on Easter Monday, Victoria Day, Labour Day and Thanksgiving Day from 9:00 a.m. to 5:00 p.m.

The facility is closed on New Year’s Day, Family Day, Good Friday, Canada Day, BC Day, National Day of Truth and Reconciliation, Remembrance Day, Christmas Day and Boxing Day.

3.3 Wildlife Observations

Wildlife tracks of medium or large carnivores were observed on Site during the reported period.

Medium carnivores (coyote) were observed 29 times over the reporting period with foxes spotted twice.

Large carnivores (black bear) were observed 35 times over the reporting period.

Cervids (deer) were spotted 2 times over the reporting period while moose were spotted 10 times over the reporting period.

3.4 Volume Reduction Statement

The RDFFG encourages the reduction of solid waste generated and subsequently landfilled by the following means:

- The transfer station provides recycling opportunities for the following materials as summarized in Table 2:
 - Scrap metal;
 - White goods including ozone depleting substances (ODS) containing appliances;
 - Automotive batteries;
 - Single use batteries and cell phones;
 - Corrugated cardboard and mixed paper;
 - Plastic cartons and containers, metal food cans;
 - Yard and garden waste;
 - Used motor oil, oil filters and containers;
 - Used antifreeze and containers; and
 - Demolition Land-Clearing and Construction (DLC) (See Section 3.6 Diverted Materials).
- As of May 31, 2024, the bins for corrugated cardboard, mixed paper, plastic cartons and containers and metal food cans were removed from the site. Site users were directed to Recycle BC depots operating within Prince George, including the Quinn Street Regional Recycling depot and curbside collection.

3.5 Waste Disposal

The quantity of waste received at the Site is weighed and recorded. A summary of the mass of waste disposed at the Site is provided in Table 1. According to RDFFG records, the total mass of waste landfilled at the Site during the reporting period was approximately 70,552 tonnes.

3.6 *Diverted Materials*

The quantity of on-site diverted materials which are either recycled, used as landfill cover, or composted at the Site is weighed and recorded. A summary of these materials is provided in Tables 2 and 3. According to RDFFG records, the total mass of diverted materials (sum mass of reported materials in Tables 2 and 3) at the Site during the reporting period was approximately 26,582 tonnes.

A waste diversion initiative for demolition, land clearing and construction waste was implemented at the Site starting on July 2, 2021. This program includes differential tipping fees for various DLC materials. Customers are encouraged to divert DLC waste to a local private recycling facility in Prince George rather than for disposal at the landfill.

3.7 *Composted Materials*

According to the RDFFG records, there were five composting cycles in 2024 which included yard and garden waste, grass, and manure. The total amount of compostable materials received at the Site was 6,471 tonnes (Table 3). The total volume of composted material sold in 2024 was 6,086 cubic metres.

3.8 *Per Capita Waste Disposal Rates*

Based on an estimated population of 96,900 (Statistics Canada 2021 Census) in the Site service area, the average daily mass of waste landfilled per capita (not using the Ministry of Environment and Climate Change Waste Diversion Calculator) was approximately 2.3 kilograms during the reporting period.

3.9 *Landfill Volume Consumed*

As indicated in Section 3.5, the total amount of waste compacted and buried was approximately 70,552 tonnes during the Reporting Period (January 1, 2024 to December 31, 2024).

The apparent waste density was estimated from the calculated landfill airspace consumption and annual tonnage landfilled. The apparent waste density is not a true density but is a relationship that represents the mass of waste disposed in each cubic metre of landfill air space. Based on a comparison of the May 10, 2024, and April 22, 2025, topographical contours, approximately 122,848 cubic metres (Tetra Tech) of airspace has been filled at the Site for the period in which the survey took place. Based upon approximately 64,900 tonnes of waste landfilled at the Site during this time period, the apparent density for the landfill was calculated to be approximately 0.53 tonnes per cubic metre. This apparent density is not typical to the 0.70 tonnes per cubic metre of the previous year or representative of historic waste densities at the site and adjustments to operations have been made.

The Remediation project in the eastern portion of cell one, completed in July of 2022, is now being utilized to develop Cell One to final grade.

Between the May 10, 2024 and the April 22, 2025 survey dates, 61,868 cubic meters were filled within Fill Area 1, located in the southern area of Cell One, 47,740 cubic meters were filled within Fill Area 2 in the northern section of Cell One, and finally

13,240 cubic meters were filled in Fill Area 3, located in the eastern section of Cell. It is estimated that the remaining airspace for Cell 1 is approximately 540,353 cubic metres as of April 22, 2025. (Figure 3).

3.10 Remaining Capacity and Site Life

The remaining operations airspace for Cell 1, as of August 2009, was reported as an estimated value of 2 million cubic metres (excluding final cover) (XCG, 2010).

According to the technical memo “Volume Assessment, Foothills Boulevard Regional Landfill,” (Tetra Tech Canada) presented to the RDFFG on December 10, 2025, approximately 122,848 cubic metres of airspace was consumed at the Site from May 10, 2024 to April 22, 2025, based on a comparison of the May 10, 2024 to April 22, 2025, topographical contours. It is estimated that the remaining airspace for Cell 1 is approximately 540,353 cubic metres, as of April 22, 2025, (Tetra Tech Canada). Based on the information currently available, the lifespan of Cell 1 (current fill area) will not likely extend beyond mid 2030.

3.11 2025 Operation Plan

Site operations during the 2025 reporting period are anticipated to remain unchanged from those outlined in Section 3.1. Additional waste diversion programs will be implemented in accordance with the 2015 Regional Solid Waste Management Plan.

The Regional District Capital Projects for 2025 are as follows:

Future Site Development and Expansion:

Phase 1: Logging, grubbing and geotechnical investigation work for Cell 2 construction.

Intermediate cover:

Intermediate cover application to Eastern and North – Eastern slopes of Cell 1 to meet regulatory requirements.

Landfill Gas System Instrumentation and Process Upgrade:

In preparation of the 2026 beneficial use project, the required upgrades to the process and instrumentation sides are now being undertaken to increase the LFG systems compatibility with current technologies and seamless integration, (with both internal and external applications).

Landfill Gas Wellfield Review and Expansion:

Expansion of the existing landfill gas wellfield onto the northwest slope of the landfill to increase overall collection efficiency.

Design, Operations, and Closure Plan Update:

Update the existing DOCP to incorporate elements of Cell 2 Development and increasing Cell 1 efficiencies.

Operational Certificate amendment:

To incorporate the development and operations of Cell 2.

4. SUMMARY AND CLOSURE

The 2024 Annual Report was prepared by the RDIFFG to summarize the development and operations of the Foothills Boulevard Regional Landfill, for the period of January 1, 2024, to December 31, 2024.

According to the weigh scale records, approximately 70,552 tonnes of waste and 25,324 tonnes of recyclable materials were received at the Site during the 2024 reporting period. Based on the information currently available, the lifespan of Cell 1 (current fill area) will not likely extend beyond 2030. It is estimated that the remaining airspace for Cell 1 is approximately 540,353 cubic metres, as of April 22, 2025.

5. REFERENCES

1. British Columbia Ministry of Environment, 1996. “Guidelines for Environmental Monitoring at Municipal Solid Waste Landfills.”
2. AMEC Earth and Environmental Ltd., December 2006. “Design and Operations Plan.”
3. British Columbia Ministry of Environment, 2006. “Guidelines for Environmental Monitoring at Municipal Solid Waste Landfills.”
4. XCG Consultants Ltd., March 2010. “Draft – Integrated Landfill Management Plan, Foothills Boulevard Regional Landfill.”
5. Maura Walker and Associates Environmental Consultants Ltd. in association with XCG Consultants Ltd., March 2016. “2015 Regional Solid Waste Management Plan.”
6. British Columbia Ministry of Environment, Second Edition (June 2016). “Landfill Criteria for Municipal Solid Waste.”
7. British Columbia Ministry of Environment, 2020. “Environmental Management Act.”
8. British Columbia Ministry of Environment, 2020. “Landfill Gas Management Regulation.”
9. Tetra Tech Inc., 2020/2021. “Volume Assessment.”
10. Dillion 2022/2023. Volume Assessment
11. Tetra Tech Canada 2023/2024 Volume Assessment
12. Tetra Tech Canada 2024/2025 Volume Assessment
13. Aero Geometrics Ltd., 2023. “Air Survey.”

FIGURES

FIGURE 1
SITE LOCATION MAP



Figure 1
**Foothills Boulevard Regional Landfill
 Site Location Map**

FIGURE 2
SITE PLAN

LEGEND:

- - - PROPERTY BOUNDARY
- MW02-12 - MONITORING WELL



NOTE: EXISTING CONDITIONS AS OF MAY, 2025

FIGURE 3
AERIAL SURVEY



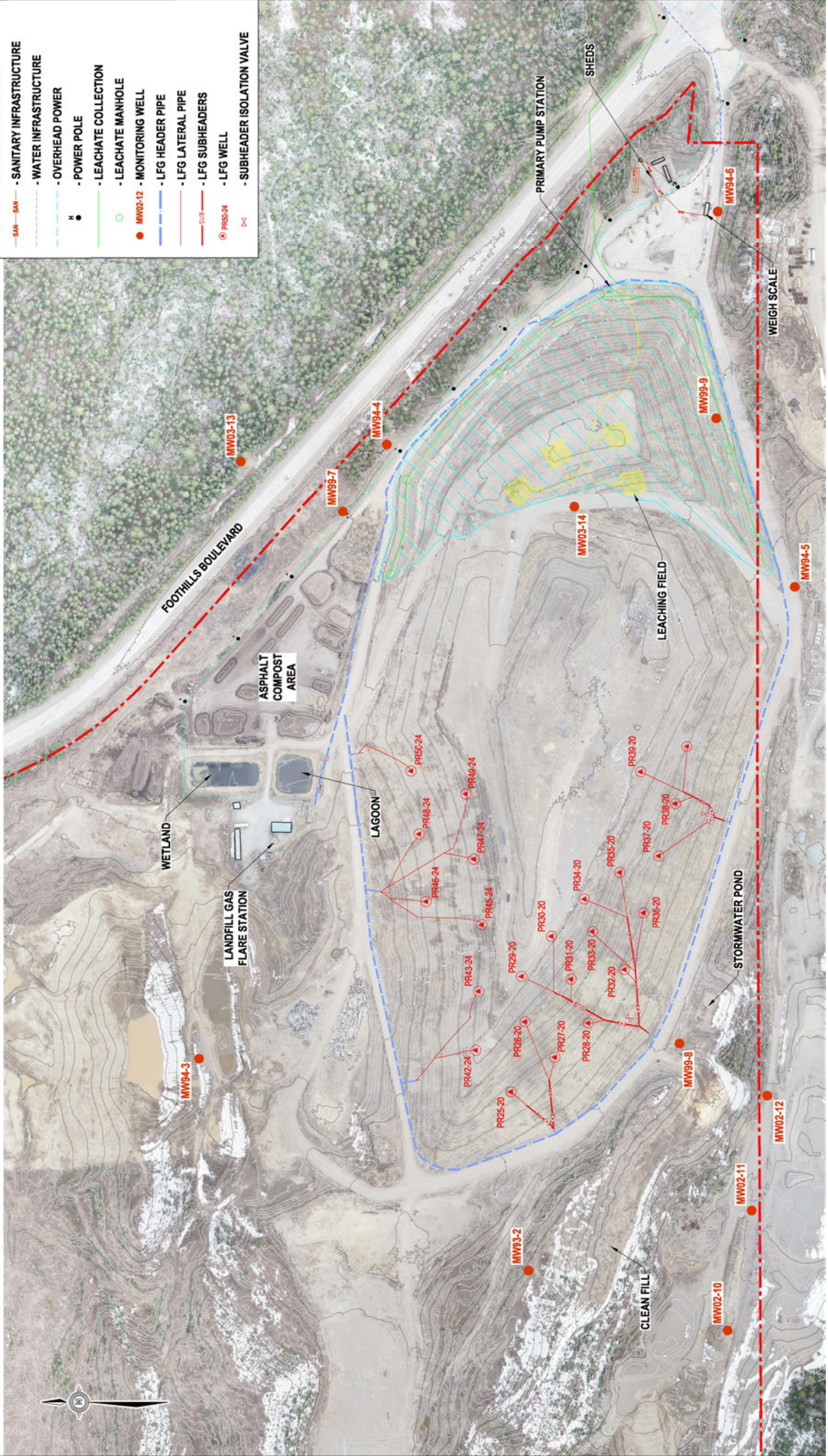
REGIONAL DISTRICT
of Fraser-Fort George

POLLUTION CONTROL INFRASTRUCTURE AT FOOTHILLS BOULEVARD REGIONAL LANDFILL

May 15, 2025

LEGEND:

- PROPERTY BOUNDARY
- FINAL COVER
- LEACHATE FOREMAIN
- SANITARY INFRASTRUCTURE
- WATER INFRASTRUCTURE
- OVERHEAD POWER
- POWER POLE
- LEACHATE COLLECTION
- LEACHATE MANHOLE
- MW02-12 - MONITORING WELL
- LFG HEADER PIPE
- LFG LATERAL PIPE
- LFG SUBHEADERS
- LFG WELL
- SUBHEADER ISOLATION VALVE



NOTE: EXISTING CONDITIONS AS OF MAY, 2025

TABLES

Table 1 Solid Waste Disposal Summary 2024

| Solid Waste Disposal Summary | | | | | | | |
|------------------------------|----------------------|------------------------------------|--------------------------------------|-------------------|----------------------------|---------------------------|--|
| Date | Residential (tonnes) | Industrial and Commercial (tonnes) | Construction and Demolition (tonnes) | Asbestos (tonnes) | TS Correction (-) (tonnes) | Total Landfilled (tonnes) | |
| Jan-24 | 2,546.3 | 1,892.8 | 446.1 | 5.2 | 314.7 | 4,575.7 | |
| Feb-24 | 2,139.0 | 1,880.9 | 490.1 | 7.2 | 293.8 | 4,223.4 | |
| Mar-24 | 2,694.1 | 1,915.8 | 673.2 | 11.0 | 414.0 | 4,880.1 | |
| Apr-24 | 3,294.9 | 2,449.1 | 1,358.9 | 24.4 | 555.1 | 6,572.2 | |
| May-24 | 3,571.6 | 2,351.1 | 1,511.6 | 10.4 | 672.8 | 6,771.9 | |
| Jun-24 | 3,469.8 | 2,169.3 | 1,509.6 | 23.1 | 615.4 | 6,556.3 | |
| Jul-24 | 3,722.5 | 2,342.8 | 1,330.5 | 21.5 | 705.6 | 6,711.5 | |
| Aug-24 | 3,508.2 | 2,350.6 | 1,589.4 | 8.8 | 661.9 | 6,795.1 | |
| Sep-24 | 3,294.0 | 2,073.5 | 1,352.2 | 9.4 | 545.9 | 6,183.3 | |
| Oct-24 | 3,522.9 | 2,408.0 | 1,407.3 | 13.7 | 543.2 | 6,808.6 | |
| Nov-24 | 2,789.1 | 1,934.6 | 862.0 | 17.5 | 417.2 | 5,186.0 | |
| Dec-24 | 2,583.0 | 2,067.6 | 996.2 | 12.4 | 371.5 | 5,287.7 | |
| Total | 37,135.3 | 25,835.8 | 13,527.2 | 164.6 | 6,111.2 | 70,551.7 | |

Notes:

1. Data provided by the RDIFFG.
2. TS Correction adjustment for double weighted materials originating from on-site transfer station.

Table 2 Recycled and Non-Landfilled Materials 2024

| Recycled and Non-Landfilled Materials | | | | | | |
|---------------------------------------|------------------------|-------------------------|-----------------------------|------------------------------|-------------------|--|
| Date | Appliances (tonnes) | Scrap Metal (tonnes) | Cover and Soils (tonnes) | Transfer Station (tonnes) | Total (tonnes) | |
| Jan-24 | 5.1 | 43.0 | 69.7 | 0.1 | 118.0 | |
| Feb-24 | 4.0 | 40.9 | 35.4 | 0.3 | 80.6 | |
| Mar-24 | 6.4 | 383.6 | 557.3 | 1.3 | 948.5 | |
| Apr-24 | 9.0 | 95.8 | 3,250.6 | 2.1 | 3,357.5 | |
| May-24 | 10.8 | 110.1 | 2,816.7 | 1.6 | 2,939.2 | |
| Jun-24 | 8.2 | 89.8 | 1,142.4 | 1.3 | 1,241.7 | |
| Jul-24 | 8.9 | 94.7 | 1,497.4 | 2.2 | 1,603.2 | |
| Aug-24 | 8.5 | 102.4 | 2,401.5 | 2.8 | 2,515.2 | |
| Sep-24 | 9.5 | 90.7 | 1,447.0 | 2.4 | 1,549.5 | |
| Oct-24 | 8.0 | 93.5 | 4,120.6 | 1.0 | 4,223.2 | |
| Nov-24 | 5.8 | 64.8 | 1,019.5 | 1.4 | 1,091.5 | |
| Dec-24 | 39.1 | 39.1 | 364.4 | 0.8 | 443.6 | |
| Total | 123.2 | 1,248.4 | 18,722.6 | 17.3 | 20,111.5 | |

Notes:

1. Data provided by the RDIFFG.

Table 3 Composted Materials Insert 2024

| Date | Manure | | Grass | | Chipped Yard and Commercial (tonnes) | Yard and Garden | | Total (tonnes) |
|--------------|---|-------------------------|---|-------------------------|---|---|-------------------------|-------------------|
| | Industrial and Commercial (tonnes) | Residential (tonnes) | Industrial and Commercial (tonnes) | Residential (tonnes) | | Industrial and Commercial (tonnes) | Residential (tonnes) | |
| Jan-24 | 76.0 | 1.5 | - | 0.1 | 6.6 | 3.2 | 25.5 | 106.4 |
| Feb-24 | 72.9 | 0.9 | - | 0.2 | 21.1 | 15.8 | 59.9 | 149.7 |
| Mar-24 | 94.0 | 1.8 | - | 3.6 | 31.2 | 15.2 | 212.7 | 327.3 |
| Apr-24 | 90.0 | 1.3 | 18.2 | 53.7 | 78.9 | 55.5 | 618.7 | 837.3 |
| May-24 | 100.2 | 1.5 | 23.5 | 45.2 | 56.5 | 73.5 | 739.1 | 983.0 |
| Jun-24 | 68.6 | 0.3 | 10.2 | 47.4 | 47.8 | 72.1 | 648.9 | 847.6 |
| Jul-24 | 64.0 | 0.1 | 3.8 | 28.5 | 86.2 | 49.0 | 494.8 | 640.1 |
| Aug-24 | 90.8 | 6.3 | 4.9 | 33.6 | 73.4 | 62.5 | 457.9 | 655.8 |
| Sep-24 | 62.2 | - | 0.6 | 16.0 | 45.7 | 62.9 | 382.3 | 523.9 |
| Oct-24 | 102.6 | - | 10.6 | 49.2 | 85.7 | 175.5 | 522.1 | 860.0 |
| Nov-24 | 95.8 | - | 0.6 | 13.6 | 31.2 | 28.6 | 230.0 | 368.6 |
| Dec-24 | 122.8 | 0.5 | - | 0.4 | 28.0 | 25.5 | 21.7 | 170.8 |
| Total | 1,040.0 | 14.2 | 72.3 | 291.5 | 592.1 | 639.2 | 4,413.3 | 6,470.6 |

Notes:

1. Data provided by the RDFFG.

APPENDIX A
OPERATIONAL CERTIFICATE MR-01697

MINISTRY OF ENVIRONMENT

OPERATIONAL CERTIFICATE

MR-01697

*Under the Provisions of the Environmental Management Act
and in accordance with the
Regional District of Fraser-Fort George
Solid Waste Management Plan*

Regional District of Fraser-Fort George

155 George Street

Prince George, British Columbia

V2L 1P8

is authorised to manage recyclable material and municipal solid waste at a sanitary landfill located at **6595 Foothills Boulevard**, Prince George, 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.

1. LOCATION OF AUTHORISED FACILITY

The location of the facility for the management of recyclable material and municipal solid wastes to which this Operational Certificate is applicable is the Foothills Landfill, Block A of the Northeast $\frac{1}{4}$ of District Lot 4053 and Block A of the Northwest $\frac{1}{4}$ of District Lot 4048, Cariboo District as shown in the attached plan and containing 87 hectares more or less.

2. ENTRANCE FACILITIES

The authorised facility includes recyclable material and municipal solid waste drop-off facilities, weigh scales and related appurtenances approximately as shown on the attached Site Plan.


3. MANAGEMENT OF MUNICIPAL SOLID WASTE

3.1. Sanitary Landfill

3.1.1. The authorised facilities are a sanitary landfill area, composting area, landfill gas management, recyclable material storage areas and related appurtenances approximately as shown on the attached Site Plan. The site reference number for the discharge is E211018.

Date Issued:

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Del Reinheimer, P.Eng.
for Director, Environmental Management Act

- 3.1.2. The characteristics of the discharge must be municipal solid waste as defined under the *Environmental Management Act* and other wastes as approved in writing by the Director.
- 3.1.3. Waste may be discharged to the areas specified in the Regional District's Design and Operation Plan, approximately located as shown on the attached Site Plan.

4. GENERAL REQUIREMENTS

4.1. Qualified Professionals

All facilities and information, including works, plans, assessments, investigations, surveys, programs and reports, must be certified by qualified professionals.

4.2. Plans

4.2.1. The Regional District shall prepare a Design and Operation Plan that will include considerations for site operation and development, leachate and landfill gas management, composting operations, monitoring programs and environmental impact mitigation management.

The Design and Operation Plan must be submitted to the Director by November 30, 2005.

4.2.2. The Design and Operation Plan must address, but not be limited to, each of the subsections in the *Landfill Criteria for Municipal Solid Waste* including performance, siting, design, operational and closure and post-closure criteria.

4.2.3. The facilities must be developed and operated in accordance with the Design and Operation Plan.

4.2.4. Any updates to the plan shall be immediately submitted to the Director.

4.3. Additional Facilities or Works

The Director may require investigations, surveys, and the construction of additional facilities or works. The Director may also amend information requirements of this Operational Certificate including plans, programs, assessments and reports.

5. OPERATIONAL REQUIREMENTS

5.1. Operator Training and Development

At a minimum, the Regional District will ensure that operating personnel are trained to industry standards and at least one member of the on-site personnel are trained and current in a SWANA recognized landfill operator course or equivalent.

5.2. Wildlife Management and Control

At the time of issuance of this certificate the Regional District is not required to install electric fencing for the purpose of preventing access to the site by bears.

The Regional District is required to monitor wildlife (medium and large carnivores) activity at the facility and keep records of occurrences and observations of wildlife (medium and large carnivores).

The Director may request the Regional District to develop a Wildlife Management Plan that presents solutions for preventing wildlife access to the facility.

5.3. Compost

Composting facilities shall be operated and maintained in accordance with the *Organic Matter Recycling Regulation*.

5.3. Management of Landfill Gas


The management of landfill gas shall be managed in accordance with sections 4.2 and 6.4 of the *Landfill Criteria for Municipal Solid Waste*. In addition, the Regional District will have a qualified professional prepare an Operations and Maintenance Manual for the landfill gas management system.

6. HAZARDOUS WASTE MANAGEMENT

6.1. Hazardous Waste

“Hazardous Wastes” as defined by the *Hazardous Waste Regulation* pursuant to the *Environmental Management Act* are prohibited from disposal unless expressly authorised by the *Hazardous Waste Regulation*, approved by the Director or as specified in the Operational Certificate.

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6.2. Waste Asbestos

Waste asbestos is authorized for disposal subject to compliance with the requirements of section 40 of the *Hazardous Waste Regulation* **and** the following conditions:

- 6.2.1. The asbestos waste may not be mixed with any other hazardous waste.
- 6.2.2. The Regional District must approve the disposal before disposal takes place.
- 6.2.3. All other applicable requirements of the *Hazardous Waste Regulation*, including but limited to manifesting and waste record keeping, must also be complied with.

6.3. Handling of Impacted Soil

The *Environmental Management Act*, the *Contaminated Sites Regulation* and the *Hazardous Waste Regulation* are applicable for the disposal of impacted (contaminated) soil at the facility.

6.4. Hazardous Wastes from Accidental Spills or Abandonment

Hazardous wastes resulting from accidental spills or abandonment of dangerous goods may be accepted at the facility only under the authority of Section 52(1) of the *Hazardous Waste Regulation*.

7. **MONITORING**

7.1. Monitoring Program

- 7.1.1. A monitoring program shall be developed by a qualified professional to identify potential impacts to the environment and public health from the facility.
- 7.1.2. The monitoring program shall be submitted as part of the Design and Operation Plan.
- 7.1.3. The monitoring program must address, but not be limited to, subsections 4.1, 4.2 and 7.15 of the *Landfill Criteria for Municipal Solid Waste* and the *Guidelines for Environmental Monitoring at Municipal Solid Waste Landfills*.
- 7.1.4. Monitoring must be conducted in accordance with the monitoring program.