



**A.Lanfranco
& Associates Inc.**

Environmental Consultants

Prepared for

METRO VANCOUVER

Metrotower III

**4515 Central Boulevard
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Waste-to-Energy Facility

Second Quarter 2026 Emissions Monitoring Report

Operational Certificate 107051

Prepared by Mr. Louis Agassiz

Issued: June 10, 2026

CERTIFICATION

The field monitoring for this survey was conducted by certified stack test technicians as required by the British Columbia Ministry of Environment and Parks (BC MOE) Field Sampling Manual.

The field crew consisted of:

Mr. L. Agassiz (certified), Mr. D. Sampson (certified), Mr. J. Ching (certified), Mr J. Gibbs (certified), and Mr. B. Boulanger.

The report was prepared by Mr. L. Agassiz using reporting principles and guidelines generally acceptable to Metro Vancouver (MV).

The field crew and A. Lanfranco and Associates Inc. certify that the test methods used were BC MOE/MV approved reference methods for the parameters investigated.

Report reviewed on June 9, 2026, by:



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SUMMARY

The following table displays the emission results from the three units located at Metro Vancouver's Waste-To-Energy Facility (WTEF) as well as the current emission limits as defined by the Operational Certificate (OC) issued by BC Ministry of Environment and Parks. This compliance survey represents the second quarter of 2026.

Table 1: Summary Comparison of Emissions Test Results with Limits

Parameter	Limit	Unit 1	Unit 2	Unit 3	Facility Average
Test Date		Apr 29-30, 2026	Apr 30-May 1, 2026	Apr 28-29, 2026	
Filterable Particulate (mg/Sm ³ @ 11% O ₂)	9.0	0.33	2.58	2.51	1.81
Hydrogen Fluoride (mg/Sm ³ @ 11% O ₂)	1.0	0.06	0.14	0.09	0.10
Trace Metals - OC Class (mg/Sm ³ @ 11% O ₂)					
Lead (Pb)	-	0.0005	0.0005	0.0005	0.0005
Arsenic (As)	-	0.0003	0.0003	0.0003	0.0003
Chromium (Cr)	-	0.0001	0.0003	0.0002	0.0002
OC Class Sum (Pb, As and Cr)	0.064	0.0009	0.0012	0.0010	0.0010
Mercury (mg/Sm ³ @ 11% O ₂)	0.02	0.000380	0.000492	0.000227	0.00037
Cadmium (mg/Sm ³ @ 11% O ₂)	0.007	0.000087	0.000087	0.000085	0.00009

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Emissions in Q-2 2026 were slightly greater than Q-1 2026 for most parameters. At these concentrations variability in the microgram range is not significant. All results remain well below regulatory limits and in line with historical averages.

1 INTRODUCTION

Metro Vancouver (MV) commissioned an emission survey at the Waste-To-Energy Facility (WTEF) in Burnaby BC, as required by the provincially approved Operational Certificate (OC). Stationary source monitoring is required Quarterly.

The individual sources that were monitored for compliance are identified as Unit 1, Unit 2 and Unit 3 which represent the three distinct processing lines at the WTEF. The three boilers are identified as discharge E300670 in the operational certificate.

The survey included monitoring for: filterable particulate matter, trace metals, mercury (Hg), hydrogen chloride (HCl), hydrogen fluoride (HF), ammonia (NH₃), nitrous oxide (N₂O) and volatile organic compounds (VOC).

A. Lanfranco and Associates Inc. (Lanfranco), of Surrey, B.C., conducted the sampling program on behalf of MV. The sampling program consisted of, but was not limited to, the planning, execution, analysis, and reporting of three emission sources located at the WTEF.

This report includes a comparison of emission results to limits established in the OC, detailed emission results, a brief outline of methods employed, equipment used, and a discussion of the survey. All supporting data and appendices are presented under separate cover.

The appendices for this report, including computer outputs of calculated data, analytical data, field data sheets, calibrations, and professional certifications are issued separately.

2 METHODOLOGY

All services provided by A. Lanfranco and Associates Inc. were conducted in accordance with approved reference methods as issued by:

- Metro Vancouver (MV)
- BC Ministry of Environment and Parks (BC MOE)
- Environment Canada (EC)
- US Environmental Protection Agency (EPA)

2.1 Sampling and Analytical Methods

The following table lists the test methods used for the different parameters measured. The subsequent paragraphs briefly describe each method.

Table 2: Reference Methods

<u>Parameter</u>	<u>Reference Method</u>
Sample and Velocity traverse points	EPS 1/RM/8 A Determination of Sampling Site and Traverse Points
Velocity and flowrate	EPS 1/RM/8 B Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
Gas molecular weight (O ₂ /CO ₂)	EPS 1/RM/8 C Determination of Molecular Weight by Gas Analysis
Flue gas Moisture	EPS 1/RM/8 D Determination of Moisture Content
Particulate Matter	EPS 1/RM/8 E Determination of Particulate Matter Emissions from Stationary Sources
Trace Metals with Mercury	EPA Method 29 Determination of Metals Emissions from Stationary Sources
HF, HCl, NH ₃	EPA Method 26A EPA Method 26 Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources (non-isokinetic)
Nitrous Oxide (N ₂ O)	US EPA Method 18
Volatile Organic Compounds (VOC)	EPA Method TO-15 Determination of Volatile Organic Compounds in Air

Sampling Site and Traverse Points

Primary: EPS 1/RM/8 Method A

Supporting: EPA Method 1

This method is designed to aid in the representative measurement of pollutant emissions and/or total volumetric flow rate from a stationary source. A measurement site where the effluent stream is flowing in a known direction is selected, and the cross-section of the stack is divided into a number of equal areas. Traverse points are then located within each of these equal areas.

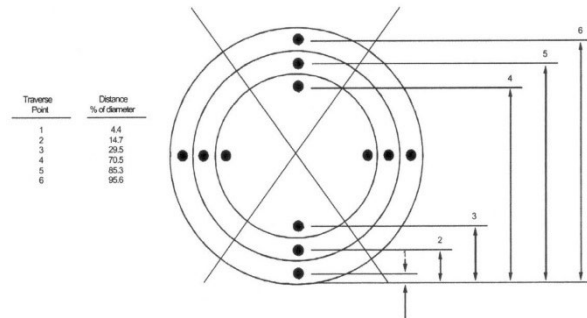


Figure 1: Example showing circular stack cross section divided

Stack Gas Velocity and Volumetric Flow Rate

Primary: EPS 1/RM/8 Method B

Supporting: EPA Method 2

The average gas velocity in a stack or duct is determined from the gas density and from the measurement of velocity pressure with an S-type pitot tube. A standard pitot tube may be used where plugging of the tube openings due to particulate matter and/or moisture is not likely to occur. Stack gas volumetric flow rate is determined from measurements of stack gas velocity, temperature, absolute pressure, dry gas composition, moisture content, and stack diameter.

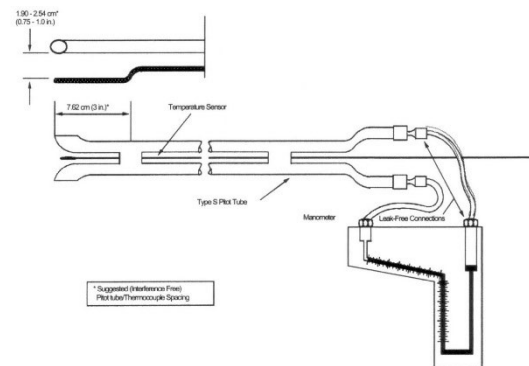


Figure 2: Type S Pitot Tube Manometer Assembly

Molecular Weight by Gas Analysis

Primary: EPS 1/RM/8 Method C
Supporting: EPA Method 3

An integrated or grab sample is extracted from a single point in the gas stream and analyzed for its components using a Fyrite analyzer, a gas chromatograph, or calibrated continuous analyzers.

Moisture Content

Primary: EPS 1/RM/8 Method D
Supporting: EPA Method 4

A gas sample is extracted from a single point in the enclosed gas stream being sampled. The moisture is condensed, and its weight measured. This weight, together with the volume of gas sampled, enables the stack gas moisture content to be calculated.

Particulate Matter

Primary: EPS 1/RM/8 Method E
Supporting: EPA Method 5

Particulate matter is withdrawn isokinetically from a number of sampling or traverse points in an enclosed gas stream. The particulate sample is collected in the nozzle, probe, and on a glass fibre filter, all maintained at a temperature of $120 \pm 14^{\circ}\text{C}$ or such other temperature as is necessary to prevent blinding of the filter from condensation. The particulate weight is determined gravimetrically after removal of uncombined water. Simultaneous determinations of the gas stream moisture content, velocity, temperature, and molecular weight allow calculations of the particulate concentration and the particulate mass emission or release rate to be made.

Trace Metal

Primary: EPA Method 29 (modified)

This method is used in conjunction with the above Method 5. A stack sample is withdrawn isokinetically from the source. Particulate emissions are collected in the probe and on a heated filter, and gaseous emissions are then collected in an aqueous acidic solution of hydrogen peroxide (analyzed for all metals including Hg) and an aqueous acidic solution of potassium permanganate (analyzed only for Hg). The recovered samples are digested, and appropriate fractions are analyzed for Hg by cold vapour atomic absorption spectroscopy (CVAAS). The remaining trace metals are analyzed with inductively coupled argon plasma emission spectroscopy (ICAP), atomic absorption spectroscopy (AAS) and graphite furnace atomic absorption spectroscopy (GFAAS). Figure 3 presents the sample train and its configuration.

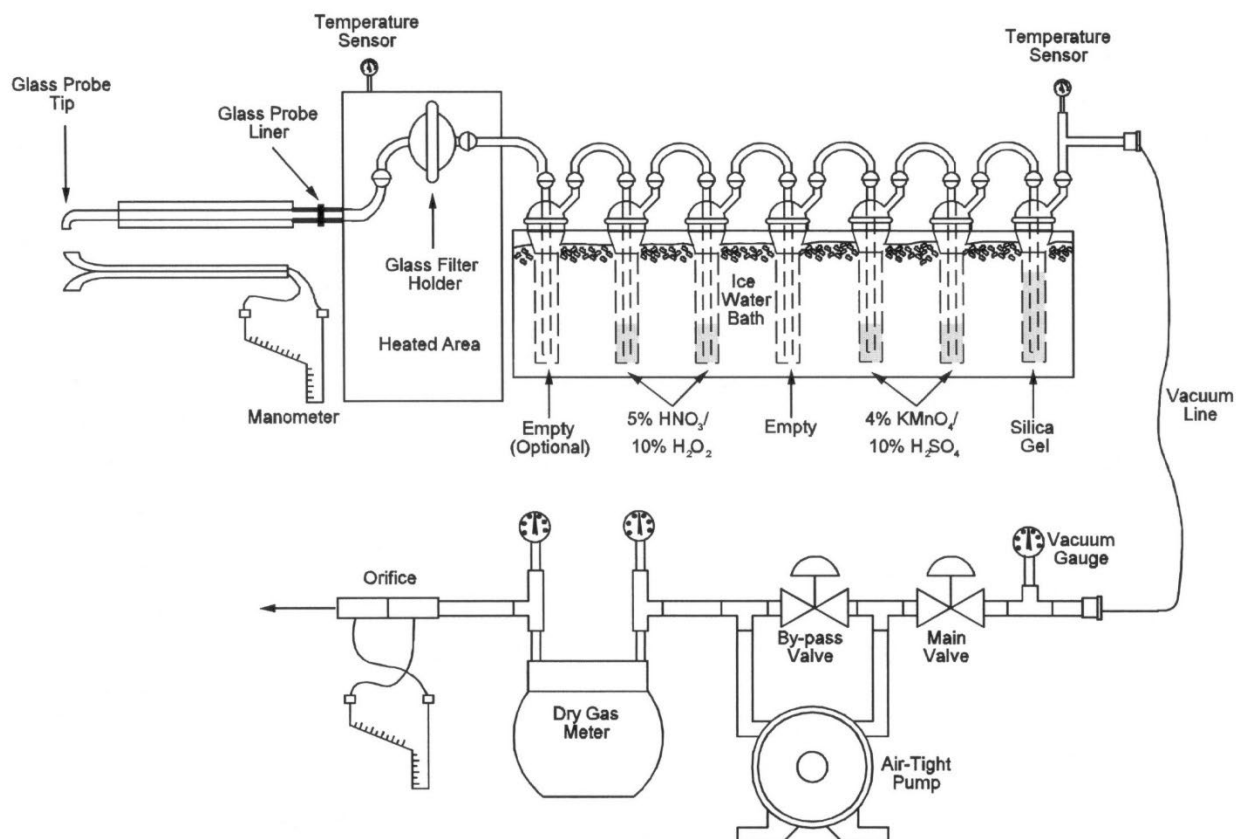


Figure 3: Particulate / Trace Metals Sampling Train

Hydrogen Fluoride, Hydrogen Chloride, and Ammonia

Primary: EPA 26A

US EPA Method 26A. This sample train consisted of a heated glass probe with heated glass fiber filter, and two impingers containing 25 mL of 0.1N H₂SO₄. Samples were collected for 60 minutes at about two liters per minute. The collected samples are measured for F by ion chromatography at Element laboratory in Surrey, BC.

N₂O

Primary: US EPA Method 18

Three N₂O samples were collected from each source using evacuated tedlar bag sampling procedures. Each bag was purged and evacuated on-site with small amounts of stack gas, prior to final stack gas collection. Each bag sample was an integrated type of sample where stack gases were collected over sixty minute periods. The bag sampling was conducted over about a four hour period.

The samples were analyzed at Bureau Veritas in Mississauga, ON by SOP-00203 utilizing GC/ECD.

Method Modifications

Three minor method modifications were instituted for this work.

1. Reagent blanks for metals trains were made to the same volumes as all samples. In other words, exactly 100 ml of the various reagents used to recover samples was NOT done, as some sample components (probe washing for example) required more than 100 ml to adequately clean and rinse the probe. Instead, sample recovery was conducted with however much rinsing was deemed adequate. In the laboratory, the blanks and samples were made up with the appropriate reagent so that all samples and blanks were the same volume.
2. Filter and residue weighing were not conducted with the six-hour interval technique. Instead, the sample filters and beakers were conditioned with cooling and desiccation and then weighed on two separate laboratory scales after 24 hours. Duplicate or triplicate Blank samples were carried through the gravimetric analysis, and the sample results were adjusted with the Blank data to determine the net filter and probe wash residue weight gain. This is the Environment Canada approved modified approach for weighing probe wash residue.
3. For the purposes of calculating a result, all parameters were given the value of $\frac{1}{2}$ the detection limit when the analysis yielded 'non-detect' results.

All results are expressed using the metric system and corrected to standard conditions of 20 °C and 101.325 kPa, dry gas (unless otherwise noted).

3 DETAILED TEST RESULTS

The results of stack emissions were calculated using a "STACK" computer program developed by A. Lanfranco and Associates for BC MOE requirements.

Tables 3-14 present the detailed results of all emissions parameters tested and operational conditions for each of the units. Additional data and the computer outputs can be found in the accompanying Appendices.

Table 3: Unit 1 Summary of Emission Test Results

Parameter	Run 1	Run 2	Run 3	Average
Test Date - Particulate/Metals	29-Apr-26	30-Apr-26	30-Apr-26	
Test Time - Particulate/Metals	10:50 - 12:53	09:30 - 11:31	11:52 - 13:53	
Duration - Minutes	120	120	120	
Test Date - Acid Gases	30-Apr-26	30-Apr-26	30-Apr-26	
Test Time - Acid Gases	09:48 - 10:48	10:53 - 11:53	11:59 - 12:59	
Duration - Minutes	60	60	60	
Stack Temperature (°C)	149	149	152	150
Average Gas Velocity (m/s)	12.0	12.5	12.7	12.4
Dry Flow Rate (Sm ³ /min)	1056	1104	1119	1093
Moisture (Vol. %)	14.8	14.1	14.1	14.3
Oxygen (Vol. %)(dry basis)	8.48	9.53	10.44	9.48
Carbon Dioxide (Vol. %)(dry basis)	10.6	10.3	9.33	10.07
Particulate (mg/Sm ³ @ 11% O ₂)	0.35	0.33	0.30	0.33
Hydrogen Fluoride (mg/Sm ³ @ 11% O ₂)	0.04	0.06	0.08	0.06
Hydrogen Chloride (mg/Sm ³ @ 11% O ₂)	0.06	0.09	0.12	0.09
Ammonia (mg/Sm ³ @ 11% O ₂)	0.14	0.29	0.34	0.26
Nitrous Oxide (mg/Sm ³ @ 11% O ₂)	4.97	4.31	7.28	5.52
Total Hydrocarbons (mg/Sm ³ @ 11% O ₂)	5.86	4.89	4.94	5.23
Trace Metals - Operational Certificate List (mg/Sm³ @ 11% O₂)				
OC Class (Pb, As and Cr)	0.00087	0.00094	0.00098	0.00093
Aluminum (mg/Sm ³ @ 11% O ₂)	0.00080	0.02443	0.01598	0.01374
Cadmium (mg/Sm ³ @ 11% O ₂)	0.00008	0.00009	0.00009	0.00009
Lead (mg/Sm ³ @ 11% O ₂)	0.00048	0.00052	0.00056	0.00052
Mercury (mg/Sm ³ @ 11% O ₂)	0.00105	0.00004	0.00005	0.00038
Phosphorus (mg/Sm ³ @ 11% O ₂)	0.00080	0.00087	0.16919	0.05695
Isokinetic Variation (%)	105	103	102	103

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 4: Unit 1 Trace Metals Emissions (OC Class)

Metal	Test 1 (mg/m ³ @ 11% O ₂)	Test 2 (mg/m ³ @ 11% O ₂)	Test 3 (mg/m ³ @ 11% O ₂)	Average (mg/m ³ @ 11% O ₂)
OC Class				
Pb	0.00048	0.00052	0.00056	0.00052
As	0.00032	0.00035	0.00038	0.00035
Cr	0.00006	0.00007	0.00004	0.00006
Sum of OC Class	0.00087	0.00094	0.00098	0.00093
Other				
Al	0.00080	0.02443	0.01598	0.01374
Cd	0.00008	0.00009	0.00009	0.00009
P	0.00080	0.00087	0.16919	0.05695
Hg	0.00105	0.00004	0.00005	0.00038

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 5: Unit 1 Detailed Trace Metals Emissions

Metal	Test 1 (mg/m ³ @ 11% O ₂)	Test 2 (mg/m ³ @ 11% O ₂)	Test 3 (mg/m ³ @ 11% O ₂)	Average (mg/m ³ @ 11% O ₂)
Pb	0.00048	0.00052	0.00056	0.00052
Sb	0.00080	0.00087	0.00094	0.00087
Cu	0.00032	0.00009	0.00009	0.00017
Mn	0.00008	0.00009	0.00009	0.00009
V	0.00032	0.00035	0.00038	0.00035
Zn	0.00353	0.00628	0.00827	0.00603
As	0.00032	0.00035	0.00038	0.00035
Cr	0.00006	0.00007	0.00004	0.00006
Co	0.00008	0.00009	0.00009	0.00009
Ni	0.00016	0.00017	0.00019	0.00017
Se	0.00048	0.00052	0.00056	0.00052
Te	0.00064	0.00070	0.00075	0.00070
Tl	0.00048	0.00052	0.00056	0.00052
Cd	0.00008	0.00009	0.00009	0.00009
Hg	0.00105	0.00004	0.00005	0.00038

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 4: Unit 1 - Summary of Operating Data

Parameter		Run 1	Run 2	Run 3	Normal
Test Date - Particulate/Metals		29-Apr-26	30-Apr-26	30-Apr-26	
Test Time - Particulate/Metals		10:50 - 12:53	09:30 - 11:31	11:52 - 13:53	
Boiler Steam Production	(kg/h)	36,960	36,845	36,765	35,228
Percentage of normal	(%)	105%	105%	104%	
Boiler Secondary Combustion Zone Temp	(°C)	972	937	913	916
Percentage of normal	(%)	106%	102%	100%	
Rate of refuse fired	(kg/hr)	11,033	10,999	10,975	10,516
Percentage of normal	(%)	105%	105%	104%	
Rate of aux. fuel fired (Natural Gas)	m ³ /hr	0	0	0	141
Percentage of normal (%)	(%)	0%	0%	0%	

*Normal refers to the average operating rate from the previous 30 days

Table 5: Unit 2 Summary of Emission Test Results

Parameter	Run 1	Run 2	Run 3	Average
Test Date - Particulate/Metals	30-Apr-26	1-May-26	1-May-26	
Test Time - Particulate/Metals	11:10 - 13:14	09:25 - 11:26	11:38 - 13:40	
Duration - Minutes	120	120	120	
Test Date - Acid Gases	1-May-26	1-May-26	1-May-26	
Test Time - Acid Gases	09:52 - 10:52	11:15 - 12:15	12:20 - 13:20	
Duration - Minutes	60	60	60	
Stack Temperature (°C)	155	152	151	153
Average Gas Velocity (m/s)	13.4	12.5	12.8	12.9
Dry Flow Rate (Sm ³ /min)	1173	1097	1125	1131
Moisture (Vol. %)	13.7	13.7	13.7	13.7
Oxygen (Vol. %)(dry basis)	9.40	10.1	9.47	9.64
Carbon Dioxide (Vol. %)(dry basis)	10.2	9.8	10.3	10.1
Particulate (mg/Sm ³ @ 11% O ₂)	2.82	2.91	2.02	2.58
Hydrogen Fluoride (mg/Sm ³ @ 11% O ₂)	0.10	0.17	0.15	0.14
Hydrogen Chloride (mg/Sm ³ @ 11% O ₂)	0.14	0.26	0.22	0.21
Ammonia (mg/Sm ³ @ 11% O ₂)	0.15	0.09	0.06	0.10
Nitrous Oxide (mg/Sm ³ @ 11% O ₂)*	4.73	5.68	6.35	5.59
Total Hydrocarbons (mg/Sm ³ @ 11% O ₂)	5.37	5.42	-	5.39
Trace Metals - Operational Certificate List (mg/Sm³ @ 11% O₂)				
OC Class (Pb, As and Cr)	0.00086	0.00176	0.00092	0.00118
Aluminum (mg/Sm ³ @ 11% O ₂)	0.11530	0.02390	0.00683	0.04868
Cadmium (mg/Sm ³ @ 11% O ₂)	0.00008	0.00010	0.00009	0.00009
Lead (mg/Sm ³ @ 11% O ₂)	0.00048	0.00057	0.00051	0.00052
Mercury (mg/Sm ³ @ 11% O ₂)	0.00069	0.00074	0.00004	0.00049
Phosphorus (mg/Sm ³ @ 11% O ₂)	0.00080	0.14914	0.00085	0.05026
Isokinetic Variation (%)	102	103	103	102

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 6: Unit 2 Trace Metals Emissions (OC Class)

Metal	Test 1 (mg/m ³ @ 11% O ₂)	Test 2 (mg/m ³ @ 11% O ₂)	Test 3 (mg/m ³ @ 11% O ₂)	Average (mg/m ³ @ 11% O ₂)
OC Class				
Pb	0.0005	0.0006	0.0005	0.0005
As	0.0003	0.0004	0.0003	0.0003
Cr	0.0001	0.0008	0.0001	0.0003
Sum of OC Class	0.0009	0.0018	0.0009	0.0012
Other				
Al	0.11530	0.02390	0.00683	0.0487
Cd	0.00008	0.00010	0.00009	0.0001
P	0.00080	0.14914	0.00085	0.0503
Hg	0.00069	0.00074	0.00004	0.0005

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 7: Unit 2 Detailed Trace Metals Emissions

Metal	Test 1 (mg/m ³ @ 11% O ₂)	Test 2 (mg/m ³ @ 11% O ₂)	Test 3 (mg/m ³ @ 11% O ₂)	Average (mg/m ³ @ 11% O ₂)
Pb	0.00048	0.00057	0.00051	0.00052
Sb	0.00080	0.00096	0.00085	0.00087
Cu	0.00192	0.00191	0.00102	0.00162
Mn	0.00100	0.00010	0.00009	0.00039
V	0.00032	0.00038	0.00034	0.00035
Zn	0.03459	0.02906	0.03109	0.03158
As	0.00032	0.00038	0.00034	0.00035
Cr	0.00006	0.00080	0.00007	0.00031
Co	0.00008	0.00010	0.00009	0.00009
Ni	0.00016	0.00019	0.00017	0.00017
Se	0.00048	0.00057	0.00051	0.00052
Te	0.00064	0.00076	0.00068	0.00070
Tl	0.00048	0.00057	0.00051	0.00052
Cd	0.00008	0.00010	0.00009	0.00009
Hg	0.00069	0.00074	0.00004	0.00049

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 8: Unit 2 - Summary of Operating Data

Parameter		Run 1	Run 2	Run 3	Normal
Test Date - Particulate/Metals		30-Apr-26	1-May-26	1-May-26	
Test Time - Particulate/Metals		11:10 - 13:14	09:25 - 11:26	11:38 - 13:40	
Boiler Steam Production	(kg/h)	37,243	36,350	35,774	34,898
Percentage of normal	(%)	107%	104%	103%	
Boiler Secondary Combustion Zone Temp	(°C)	909	890	897	902
Percentage of normal	(%)	101%	99%	99%	
Rate of refuse fired	(kg/hr)	11,117	10,851	10,679	10,417
Percentage of normal	(%)	107%	104%	103%	
Rate of aux. fuel fired (Natural Gas)	m ³ /hr	0	0	10.03	225
Percentage of normal (%)	(%)	0%	0%	4%	

*Normal refers to the average operating rate from the previous 30 days

Table 9: Unit 3 Summary of Emission Test Results

Parameter	Run 1	Run 2	Run 3	Average
Test Date - Particulate/Metals	28-Apr-26	29-Apr-26	29-Apr-26	
Test Time - Particulate/Metals	11:44 - 13:46	10:27 - 12:28	12:53 - 14:54	
Duration - Minutes	120	120	120	
Test Date - Acid Gases	29-Apr-26	29-Apr-26	29-Apr-26	
Test Time - Acid Gases	10:35 - 11:35	11:55 - 12:55	13:05 - 14:05	
Duration - Minutes	60	60	60	
Stack Temperature (°C)	146	149	151	149
Average Gas Velocity (m/s)	14.3	13.7	13.7	13.9
Dry Flow Rate (Sm ³ /min)	1275	1203	1204	1228
Moisture (Vol. %)	13.2	13.8	13.2	13.4
Oxygen (Vol. %)(dry basis)	10.4	10.3	10.6	10.4
Carbon Dioxide (Vol. %)(dry basis)	9.50	9.58	9.25	9.44
Particulate (mg/Sm ³ @ 11% O ₂)	2.68	2.91	1.93	2.51
Hydrogen Fluoride (mg/Sm ³ @ 11% O ₂)	0.16	0.05	0.05	0.09
Hydrogen Chloride (mg/Sm ³ @ 11% O ₂)	0.24	0.08	0.07	0.13
Ammonia (mg/Sm ³ @ 11% O ₂)	0.36	1.27	0.49	0.71
Nitrous Oxide (mg/Sm ³ @ 11% O ₂)*	3.45	6.13	9.03	6.20
Total Hydrocarbons (mg/Sm ³ @ 11% O ₂)	4.57	5.06	5.53	5.05
Trace Metals - Operational Certificate List (mg/Sm³ @ 11% O₂)				
OC Class (Pb, As and Cr)	0.00089	0.00088	0.00126	0.00101
Aluminum (mg/Sm ³ @ 11% O ₂)	0.00994	0.01775	0.01492	0.01421
Cadmium (mg/Sm ³ @ 11% O ₂)	0.00008	0.00008	0.00009	0.00009
Lead (mg/Sm ³ @ 11% O ₂)	0.00050	0.00051	0.00053	0.00051
Mercury (mg/Sm ³ @ 11% O ₂)	0.00004	0.00060	0.00004	0.00023
Phosphorus (mg/Sm ³ @ 11% O ₂)	0.00083	0.05073	0.09876	0.05011
Isokinetic Variation (%)	101	104	103	103

All data is corrected to standard conditions (S) of 20°C, 101.325 kPa (dry) unless otherwise noted.

Table 10: Unit 3 Trace Metals Emissions (OC Class)

Metal	Test 1 (mg/m ³ @ 11% O ₂)	Test 2 (mg/m ³ @ 11% O ₂)	Test 3 (mg/m ³ @ 11% O ₂)	Average (mg/m ³ @ 11% O ₂)
OC Class				
Pb	0.00050	0.00051	0.00053	0.00051
As	0.00033	0.00034	0.00035	0.00034
Cr	0.00007	0.00003	0.00039	0.00016
Sum of OC Class	0.00089	0.00088	0.00126	0.00101
Other				
Al	0.00994	0.01775	0.01492	0.01421
Cd	0.00008	0.00008	0.00009	0.00009
P	0.00083	0.05073	0.09876	0.05011
Hg	0.00004	0.00060	0.00004	0.00023

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 11: Unit 3 Detailed Trace Metals Emissions

Metal	Test 1 (mg/m ³ @ 11% O ₂)	Test 2 (mg/m ³ @ 11% O ₂)	Test 3 (mg/m ³ @ 11% O ₂)	Average (mg/m ³ @ 11% O ₂)
Pb	0.00050	0.00051	0.00053	0.00051
Sb	0.00083	0.00085	0.00088	0.00085
Cu	0.00066	0.00507	0.00140	0.00238
Mn	0.00104	0.00008	0.00009	0.00040
V	0.00033	0.00034	0.00035	0.00034
Zn	0.03213	0.02536	0.02704	0.02818
As	0.00033	0.00034	0.00035	0.00034
Cr	0.00007	0.00003	0.00039	0.00016
Co	0.00008	0.00008	0.00009	0.00009
Ni	0.00017	0.00017	0.00018	0.00017
Se	0.00050	0.00051	0.00053	0.00051
Te	0.00066	0.00068	0.00070	0.00068
Tl	0.00050	0.00051	0.00053	0.00051
Cd	0.00008	0.00008	0.00009	0.00009
Hg	0.00004	0.00060	0.00004	0.00023

All data is corrected to standard conditions (S) of 20 °C, 101.325 kPa (dry) unless otherwise noted.

Table 12: Unit 3 - Summary of Operating Data

Parameter		Run 1	Run 2	Run 3	Normal
Test Date - Particulate/Metals		28-Apr-26	29-Apr-26	29-Apr-26	
Test Time - Particulate/Metals		11:44 - 13:46	10:27 - 12:28	12:53 - 14:54	
Boiler Steam Production	(kg/h)	35,097	37,050	37,463	36,756
Percentage of normal	(%)	95%	101%	102%	
Boiler Secondary Combustion Zone Temp	(°C)	890	943	943	917
Percentage of normal	(%)	97%	103%	103%	
Rate of refuse fired	(kg/hr)	10,097	11,060	11,183	10,972
Percentage of normal	(%)	92%	101%	102%	
Rate of aux. fuel fired (Natural Gas)	m ³ /hr	0	0	20.14	180
Percentage of normal (%)	(%)	0%	0%	11%	

4 DISCUSSION

All Units were in compliance with the applicable limits as set out in the Operating Certificate (OC) during the Q-2 2026 monitoring program.

When compared to the previous monitoring event conducted in March 2026 there was very little availability across the permitted contaminants this survey.

Over recent Quarterly surveys HCl, HF, and to a lesser degree NH₃ have been trending down. That trend continued with the HCl averaging just 0.2 mg/Sm³ @11% O₂.

Some individual elements from the metals analysis were elevated this survey. Specifically, Al and P were higher than historical averages.

As stated in Section 2.1, EPA Method 5/29 was modified slightly to accommodate performance based analytical protocols utilized in B.C. for trace metals sampling and analysis. The analytical modification consists of using volumes of recovery reagents different than the method stipulates. In order to validate (ie performance-based QA) the modification, sample Blanks and all samples were made up to the same volume, so that subtraction of the Blank data, was done on equivalent sample sizes. In addition, special Hg spiking of blank filters and peroxide solutions was conducted. This spiking is referred to as a “matrix spike” and is reported in Appendix B, Quality Control for mercury, where the recovery of spiked mercury was calculated to be an acceptable 85 to 115%. It should be noted that independent front half/back half analysis of all trace metals was conducted for this survey. In addition, individual quartz filter blanks were analyzed for each unit.

Sampling was conducted in accordance with their respective reference methods (EPA 29 except as discussed) and passed all appropriate quality assurance and quality control criteria. None of the sample points on any of the three units were outside of the allowable +/- 10% for isokinetic rate.

During the monitoring, there were no environmental observations made that would impact the validity of the test program.

All sampling was conducted/supervised by certified emission testing personnel, using calibrated source sampling equipment and quality-controlled reagents. It is therefore stated that the survey and this report complies with MV's WTEF compliance testing requirements for this second survey in 2026.