

REPORT February 2025 Ambient Air Monitoring Report Rain Carbon Canada Inc.

Submitted by:

Rain Carbon Canada Inc.

725 Strathearne Avenue North Hamilton, Ontario L8H 5L3

March 2025

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1.0 INTRODUCTION

Rain Carbon Canada Inc. (Rain Carbon) is required to prepare monthly written summary reports of benzo(a)pyrene [B(a)P] and benzene ambient monitoring measurements for the coal tar and petroleum material processing plant located at 725 Strathearne Avenue N., Hamilton, Ontario (the Facility). This is the seventy seventh monthly report submitted as part of the Rain Carbon ambient monitoring program and summarizes the measurements taken in February 2025.

The ambient air monitoring measurements for February 2025 follow the December 12, 2019, Monitoring Plan for B(a)P and Benzene (the Plan) approved by the Ontario Ministry of the Environment, Conservation and Parks (MECP) on December 20, 2019. A copy of the Plan has been provided in Appendix A.

Rain Carbon operates the fence line monitors for benzene and B(a)P at the East, North, South, New West, and Old West environmental monitoring stations. Rain Carbon conducted monitoring for benzene and B(a)P monitoring off site at the HAMN station 29164 from April 2022 through December 2022 and resumed monitoring on February 7, 2023.

This report includes the following information for measurements taken in February 2025:

- Identification of each location at which a measurement was taken.
- For each location, the concentration of each measurement taken.
- The date and time each measurement was taken.

2.0 AMBIENT MONITORING STATIONS

The monitoring program consists of setting up two types of sampling systems at five locations at the Facility. The two sampling systems included the polyurethane foam (PUF) polyaromatic hydrocarbon (PAH) sampling system for B(a)P and the SUMMA volatile organic carbon (VOC) canister sampling system for benzene. Samples were collected over a 24-hour period. The monitoring stations are listed below, and their locations are shown in Figure 1.

Station Location	Height Above Grade (m)
North - Tank 91	4.1
East - South of Tank-36	3.4
South - Berm	3.2
New West – West Fence line at Railcar Track 2 Spot 10.	4.0
Old West - Tank-77 Platform	13.0
Hamilton Area Monitoring Network (HAMN) Station 29164	4.0

Table 1: Rain Carbon Ambient Air Quality Monitoring Stations

The South berm monitor is placed just over two metres above grade by the berm located on the south side of the Facility as shown in Figure 2. The Old West monitor at Tank 77 is placed on the upper platform located on the west side of the Facility as shown in Figure 3. The platform is approximately 13 metres above grade. As shown in Figure 4, the North monitor is located at the north fence line, north of Tank 91, and placed 4.1 metres above grade and at least 2 metres away from any structure. The East monitor is at the east fence line, south of Tank 36, with an inlet height of 3.4 metres above grade. The New West monitor is located at the west fence line on a new dedicated stand-alone platform at approximately 4 metres above grade.

Air quality data acquisition and instrument performance were conducted by Rain Carbon Canada Inc. personnel and the laboratory analysis was conducted by Bureau Veritas Laboratories, which is ISO1702 compliant and accredited. The following supporting documents are provided:

- Laboratory Analysis in Appendix B;
- Chain of custody forms in Appendix C;
- Laboratory Certificates of Analysis in Appendix D; and
- Field notes in Appendix E.



Figure 1: Monitor and Source Locations



Figure 2: Monitor Location on the South Side of the Facility



Figure 3: Monitor Locations on the West Side of the Facility



Figure 4: Monitor Locations on the North Side and East Side of the Facility

3.0 SUMMARY OF MONITORING EQUIPMENT CONDITIONS

The laboratory Certificate of Analysis for each monitoring event includes information on the volume of the sample collected for the PUF (B(a)P) monitoring system, and the residual vacuum pressures for the SUMMA canisters (benzene) monitoring equipment. For the PUF system, the MECP has flow requirements of 8 CFM +/- 10% which is equivalent to total volumes between 293.6 m³ and 358.8 m³ over 24 hours.

For the February 2025 B(a)P monitoring results, all the recorded PUF volumes were inside the MECP specified range of between 293.6 m³ and 358.8 m³ over 24 hours.

All the benzene summa canister pressures on receipt were within the allowable MECP guidance pressures on receipt of between - 1.6 inches Hg and - 13.4 inches Hg except at both the north and old west VOC monitors on the **Thursday February 6, 2025, MECP monitoring event** where no benzene samples were taken as both VOC sampler timer internal valves failed to open.

The north and old west VOC monitors were therefore operated again successfully on the **Saturday February 8**, **2025**, **additional monitoring event** where both summa canister pressures on receipt were within the MECP guidance acceptable pressure of receipt of between -1.6 to -13.4 inches Hg

The summa canister pressures on receipt and PUF filter total volumes are presented below in Tables 2 and 3.

Monitoring Event	Benzene SUMMA Canister Pressure on Receipt (inches Hg)							
Date	East	North	Old West	South	New West	HAMN STN 29164		
February 6	- 4.89*	Sampler failure**	Sampler failure**	- 5.70	- 5.29	-7.74		
February 8 (additional monitoring event)	-	- 6.31	-10.99*	-	-	-		
February 18	- 9.16	- 6.31	-10.59*	-6.72	-7.53	-6.72		

Table 2: Summa Canister Pressures on Receipt (inches Hg)

*Sample is acceptable as within the MECP acceptable pressure of receipt of between -1.6 to -13.4 inches Hg but outside the MECP recommended pressure on receipt range of - 5 to -10 inches Hg.

** Sample is invalid as the Summa canister pressure on receipt was outside the MECP acceptable range of - 1.6 to -13.4 inches Hg.

Table 3: PUF Filter Total Volumes

Monitoring		+	+B(a)P PUF Total Volume [m ³]				
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164	
February 6	327.0	300.9	330.7	312.2	316.6	326.6	
February 18	305.9	306.4	323.3	318.1	298.6	347.5	

4.0 SUMMARY OF BENZENE MEASUREMENTS

Two sets of benzene measurements were taken in February 2025. The measurements range from 0.464 μ g/m³ to **18.0 \mug/m³ benzene**, with the highest value being detected at the south monitor during the **Thursday February 6, 2025, MECP monitoring event**.

No samples were taken at both the north and old west VOC monitors on the **Thursday February 6, 2025**, **MECP monitoring event** as both VOC sampler timer internal valves failed to open. The north and old west VOC monitors were operated again successfully on the **Saturday February 8 , 2025, additional monitoring event**

All the benzene concentrations measured during the two February 2025 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of 100 μ g/m³ benzene.

Monitoring Event Date		Measured Concentration [µg/m ³]					
	East	North	Old West	South	New West	HAMN STN 29164	
February 6	13.0*	Sampler failure**	Sampler failure**	18.0	2.91	2.12	
February 8 (additional monitoring event)	-	7.25	7.13*	-	-	-	
February 18	11.0	0.99	0.765*	0.829	0.464	0.912	

Table 4: Summary of February 2025 Benzene Measurements

*Sample is acceptable as within the MECP acceptable pressure of receipt of between -1.6 to -13.4 inches Hg but outside the MECP recommended pressure on receipt range of - 5 to -10 inches Hg.

** Sample is invalid as the Summa canister pressure on receipt was outside the MECP acceptable range of - 1.6 to -13.4 inches Hg.

5.0 SUMMARY OF B(a)P MEASUREMENTS.

Table 5: Summary of February 2025 B(a)P Measurements.

Manitarina		Me	Measured Concentration [µg/m ³]				
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164	
February 6	< 0.00031	0.00033	0.00036	< 0.00032	< 0.00032	< 0.00031	
February 18	< 0.00059*	< 0.00046*	< 0.00056*	< 0.00069*	< 0.00080*	< 0.00046*	

*B(a)P analytical peaks detected did not meet specific quality control ratio criteria which resulted in elevated B(a)P detection limits.

Two sets of B(a)P measurements were taken in February 2025. The B(a)P measurements ranged from < $0.00031 \,\mu\text{g/m}^3$ to < $0.00080 \,\mu\text{g/m}^3$ B(a)P, with the highest value being detected at the **new west monitor** during the **February 18, 2025, monitoring event**. All the B(a)P measurements are summarized in Table 5 above, and copies of the laboratory analysis reports are provided in Appendix B.

Please note that in the B(a)P analysis of the samples at BVL on the **February 18, 2025, monitoring event**, the B(a)P analytical peaks detected did not meet specific quality control ratio criteria which resulted in elevated B(a)P detection limits on all five samples.

All the B(a)P concentrations measured during the two February 2025 monitoring events were below the 0.0043 μ g/m³ Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of 0.0050 μ g/m³ B(a)P.

6.0 CONCLUSIONS

All the B(a)P concentrations measured during the two February 2025 monitoring events were below the $0.0043 \ \mu g/m^3$ Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of $0.0050 \ \mu g/m^3$ B(a)P. However, in the B(a)P analysis of the samples at BVL on the **February 18, 2025**, **monitoring event**, the B(a)P analytical peaks detected did not meet specific quality control ratio criteria which resulted in elevated B(a)P detection limits on all five samples.

All the benzene concentrations measured during the two February 2025 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of 100 μ g/m³ benzene.

All the benzene summa canister pressures on receipt were within the allowable MECP guidance pressures on receipt of between - 1.6 inches Hg and - 13.4 inches Hg except at both the north and old west VOC monitors on the **Thursday February 6, 2025, MECP monitoring event** where no benzene samples were taken as both VOC sampler timer internal valves failed to open. The north and old west VOC monitors were operated again successfully on the **Saturday February 8 , 2025, additional monitoring event**

Signature Page

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March 2025

APPENDIX A

Monitoring Plan



REPORT Monitoring Plan for Benzo(a)pyrene and Benzene Rain Carbon Canada Inc.

Submitted to:

Distribution List

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September 2020

Distribution List

1 PDF Copy - MECP, SDB, Toronto

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APPENDIX A Site Photos

1.0 INTRODUCTION

Rain Carbon Canada Inc. (Rain Carbon) prepared an amendment to the monitoring plan (the Plan) which was approved by the Ontario Ministry of Environment, Conservation and Parks (MECP) in November 2019 as part of the conditions of the Site-Specific Standard (SSS) approvals for B(a)P (no. 201-17-rv0) and benzene (no. 202-17-rv0) issued to the Facility on November 21, 2017.

This updated Plan has been prepared to incorporate the fact that the north, east and west monitoring stations have now all been relocated as described in the Plan issued in November 2019 and are now all operational.

(The Plan describes the current air monitoring program performed to monitor concentrations of B(a)P and benzene emissions from the Facility).

1.1 Description of the Facility

Rain Carbon operates a coal tar and petroleum material processing plant located at 725 Strathearne Avenue N., Hamilton, Ontario. The Facility employs 85 people. The size of the plant is about 14 acres and it is in an area zoned for industrial use. The location of the Facility is presented in Figure 1 – Site Location Plan.

1.2 Description of the Process

Rain Carbon processes coal tar and petroleum-based materials into products. The primary production line is to manufacture coal tar pitch and coal tar distillates (CTDs) by processing coal tar. The process is comprised of the following processes and equipment:

- Coal Tar Handling;
- Distillation Process;
- Product Storage Handling;
- Natural Gas Combustion Equipment;
- Fume Gathering and Incineration (FGI) System;
- Fume Scrubber System (FSS); and
- Wastewater Collection and Treatment.

1.3 Operating Schedule

The Facility operates continuously 24 hours a day, seven days a week and 52 weeks per year.

2.0 AIR QUALITY MONITORING PROGRAM

2.1 Sampling Systems and Methodology

As B(a)P and benzene require different sampling methods, two types of sampling systems will be installed at each monitoring location (described below in Section 2.2). A PUF PAH sampling system will be used to detect condensable and non-condensable fractions of B(a)P while a VOC canister system will be used to detect benzene.

Samples will be taken over 24-hour period every 12 days. This schedule will be matched to that of the Hamilton Air Monitoring Network (HAMN) to enable comparisons with background B(a)P and benzene levels.

Monitoring will be carried out in accordance with the standard procedures summarized in Table 2.1.

Table 2.1: Standard Operation Procedures for Monitoring

Pollutant	Reference Documents	Method
Benzene	USEPA Report EPA/625/R-96/010/b, USEPA Method TO-15. ASTM Method D5466-01 Standard Test Method for the Determination of VOCs (Canister Sampling Method) Environment Canada SOP for Passive Canister Sampling – Passive FCSOP05.	Determination of VOCs in Air Collected in Specially Prepared Canister.
B(a)P	SEPA Report EPA/625/R-96/010/b, USEPA Method TO-13A. ASTM Method D6209-98 (2004), Vol. 11.07 A Guide to Air Filter (TSP and PM¬10) Sampling and Submission, Ministry of the Environment, Conservation and Parks, May 2003.	Determination of PAHs in Ambient Air Using the hi-vol Method with Teflon-coated Glass Fiber Filter and Sorbent Cartridge; Quantitative GC/MS Detection.

Rain Carbon worked with Rotek Environmental Inc. (Rotek) and others to install the monitoring equipment. Samples are collected by Rain Carbon staff and sent to an accredited laboratory for analysis. Rain Carbon will prepare the monitoring reports as required by the orders.

2.1.1 Calibration

Calibrations will be carried out in accordance with MECP standard operating procedures stating that operators must perform an external performance check and calibration on continuous and non-continuous air monitoring and sampling equipment with a certified calibration unit. This requires that the calibration materials/gases and measurement devices, such as flow meters and pressure gauges, must be certified for accuracy against a reference or transfer standard traceable to a primary reference standard of the United States National Institute of Standards and Technology (NIST) or another equivalent international standards institute. This is to ensure consistency across the province and reproducibility. Calibration devices must also undergo an annual certification assessment.

The monitoring equipment is calibrated by Rotek.

2.2 Monitor Locations

The monitoring locations were selected based on input from the MECP. Based on experience gained through implementing the monitoring program, Rain Carbon relocated the original North, East, and West Monitoring Stations but not the South Monitoring Station. The descriptions of the monitoring station locations are summarized in Table 2.2 below. The monitoring station locations are shown in Figure 2.

Monitoring Station	Location
North Monitor	This location is at the north fence line, north of Tank 91, with the inlet at an elevation of between 3 m and 15 m above grade and positioned at a distance of at least 2 m away from any structure.
EastThis location is at the east fence line and east of Tank 36 with the inlet at a distanceMonitorgreater than 2 m away from a structure and at an elevation of between 3 m and 15	
Old West Monitor	This old west location, approximately 8 metres east of the property boundary, is on a platform above Tank 77 (approximately 13 above grade) is currently located relatively close to and above the railcar loading stations.
New West Monitor	This new west location is closer to ground level to be consistent with the other monitor locations, between the west fence line and the rail tracks, and north of the railcar track 2 spot 10 area with the inlet at an elevation of between 3 m and 15 m above grade and positioned far from any structure.
South Monitor	This location is at the south fence line, south of Tank 3, with the inlet at an elevation of between 3 m and 15 m above grade and positioned at a distance of at least 2 m away from any structure.

Detailed descriptions of the emission sources at the Facility are summarized in the Monitoring Plan approved by the MECP in April 2018.

2.2.1 Siting Criteria

A comparison of each monitoring location against the siting criteria set out in the MECP Operations Manual is provided in Table 2.3 below.

				Monitor Location			
Contaminant	Criteria	North	East	Old West	New West	South	
B(a)P and Benzene	Inlet height 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	
B(a)P and Benzene	Inlet at least 1 m (vertical) and 2 m (horizontal) away from structure	Yes	Yes	Yes	Yes	Yes	
B(a)P and Benzene	No nearby furnace or incineration flues	None	None	None	None	None	
B(a)P	Avoids nearby non-process PAH sources (asphalt rooftops, rooftop tarring and roadway/parking lot paving activities) and smoking areas	Yes	Yes	Yes	Yes	Yes	
Benzene	Meets minimum separation distance from roadway (10 m)	Yes	Yes	Yes	Yes	Yes	

Table 2.3: Monitor Locations Comparison to MECP Siting Criteria.

2.3 Meteorological Data and Background Concentrations

The HAMN is used to document meteorological conditions during monitoring events. The previous closest meteorological station to the Facility was station STN29165; however, this station has not been operational since November 1, 2017. Meteorological conditions will be documented using the following nearby HAMN stations: STN29102, STN29180, and STN29565. When conditions are highly variable, the following stations may also be used to document meteorological conditions: STN29167, STN29171, and STN29567.

The background benzene and B(a)P concentrations in the vicinity of the Facility will be reviewed to evaluate the potential impact of nearby sources of emission on the Facility. Rain Carbon will use data from nearby HAMN monitoring stations, prepared by HAMN on a quarterly basis. The HAMN stations to be used

to inform background concentrations include the following HAMN stations: STN29567, STN29547, STN29102 and STN29180. Information on these stations is presented in Table 2.4.

HAMN Station	29567	29180	29547	29102	29167	29171	29565
Wind Speed and Direction	\checkmark	~	_	~	✓	\checkmark	~
B(a)P Concentration	\checkmark	~	\checkmark	_	—	_	_
Benzene Concentration	\checkmark	~	_	~	_	_	_
Approximate Distance from Facility [km]	3.9	2.4	1.0	1.5	1.7	2.3	1.3
Orientation from Facility	W	WSW	Ν	NNE	NNW	WNW	S

Table 2.4: Meteorological Station Information

The background data assessment will be used to provide context for the Rain Carbon monitoring results should high values be measured. Please note that background values will not be subtracted from the Rain Carbon monitoring results.

2.4 Laboratory Analysis

Rain Carbon will continue to work with the same accredited laboratories that have been retained to analyse samples obtained from the HAMN. The proposed method detection limits and analytical methods are summarized below in Table 2-5.

Contaminant	Methodology	Method Detection Limit
B(a)P	Gas chromatography mass spectrometry	0.0001 µg/m³ (0.1 ng/m³)
Benzene	Mass spectrometry or other detector(s) such as flame ionization detector (FID) or electron capture detector (ECD)	0.16 µg/m³

Table 2.5: Analytical Methodology

2.5 Review of Monitoring Locations

As fees for monitoring equipment rental and/or purchase, sampling materials and laboratory analysis represent a significant, long-term capital expense, Rain Carbon will continue to review the effectiveness and value of each monitoring location. In consultation with the District Manager and the Environmental Monitoring Team, Rain Carbon will propose if any of the monitors can be removed.

3.0 **REPORTING**

Summary reports of B(a)P and benzene monitoring results will be submitted to the District Manager and the Environmental Monitoring Team as set out in the SSS approval documents.

3.1 Measured Level Threshold

Within 30 days of a B(a)P concentration measuring above the Measured Level threshold in the SSS approval, Rain Carbon will submit a report to the District Manager and SDB Director. The report will contain information such as an analysis of the cause of the measurement above the Measured Level threshold, the Facility production rate at the time and other items as required by Condition 2 of the B(a)P SSS approval.

4.0 CLOSURE

This monitoring plan describes the amended air monitoring program that will be performed in accordance with the Rain Carbon SSS approvals for B(a)P and benzene.

Signature Page

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Rain Carbon Canada Inc.

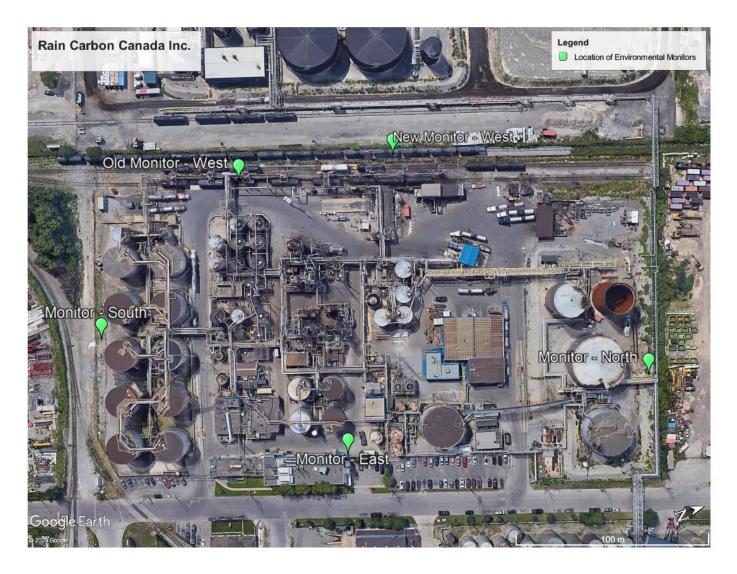
September 2020

Figures

Figure 1: Site Plan



Figure 2: Environmental Monitor Locations



APPENDIX A

Site Photos

Figure A1: Site-Wide Aerial View 1

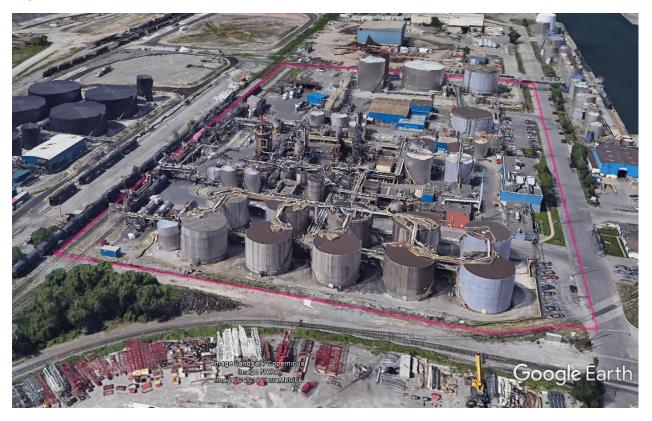


Figure A2: Site-Wide Aerial View 2



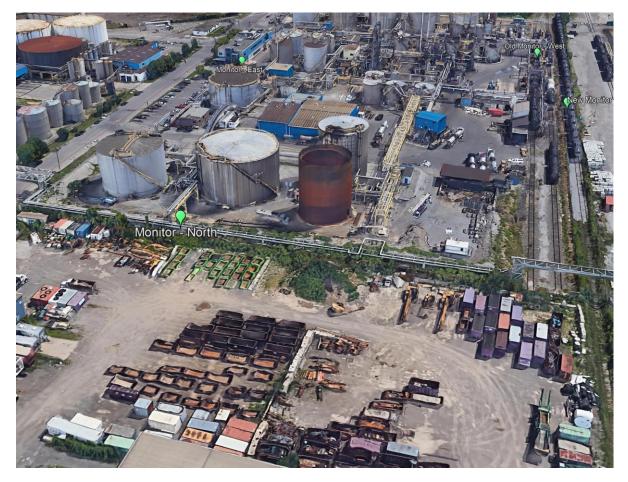


Figure A4: Aerial View 2 – North Monitoring Station.



North monitor



Figure A3: Aerial View 1 – Existing South Monitoring Station

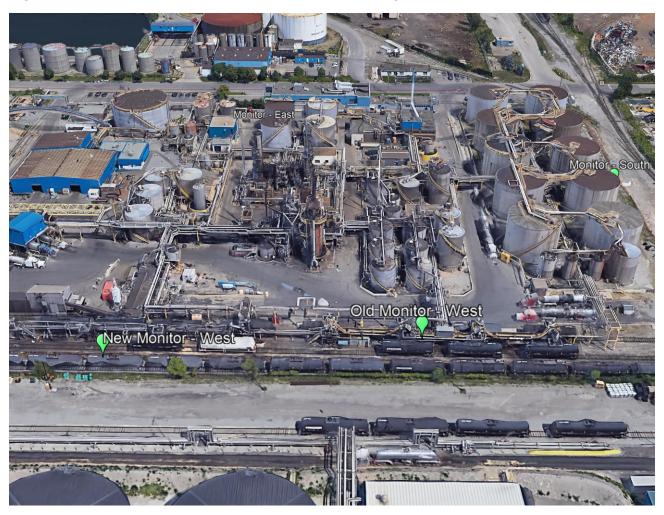


Figure A3: Aerial View 3 – New and Old West Monitoring Stations



New West Monitor



Figure A4: Aerial View 4 – East Monitoring Station

APPENDIX B

Laboratory Analysis

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period Sampling Methods Sampling Times

: February 2025

: CARB429(ARBM1,M2) mod

: 24-hour duration starting at 00:00 EST on the Sample Date

Parameter
Units
Analytical RDL
Annual Site-Specific Standard

BaP	
ng/m³	
0.315	
0.8	

Sample Date
February 6, 2025
February 18, 2025

Monthly Ave
Monthly Max
Monthly Min
No. of Samples > Standard
No. of Valid Samples
% Valid Data

		Loc	ation		
East	North	Old West	South	New West	STN29164
0.155	0.33	0.36	0.16	0.16	0.155*
0.30	0.23	0.28	0.35	0.40	0.23*

0.23	0.28	0.32	0.255	0.28	0.19*
0.30	0.33	0.36	0.35	0.40	0.23*
0.155	0.23	0.28	0.16	0.16	0.155*
0	0	0	0	0	0*
2	2	2	2	2	2*
100	100	100	100	100	100*

*These results alone follow Rotek reporting protocol

Note: All non detectable results reported as $\frac{1}{2}$ the Reportable Detection Limit (RDL).

Comments:

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period Sampling Methods Sampling Times

: February 2025

: GC/MS (TO15)

: 24-hour duration starting at 00:00 EST on the Sample Date

Parameter
Units
Analytical RDL
Annual Site-Specific Standard

Benzene
μg/m³
0.319
12.7

Sample Date		Location							
		East	North	Old West	South	New West	STN29164		
February 6, 2025		13.0	Sampler failure	Sampler failure	18.0	2.91	2.12*		
February 8, 2025 (additional north and old west monitoring event)		-	7.25	7.13	-	-	-		
February 18, 2025		11.0	0.99	0.765	0.829	0.464	0.912*		
	-								

Monthly Ave	12.0	4.12	3.95	9.41	1.69	1.52*
Monthly Max	13.0	7.25	7.13	18.0	2.91	2.12*
Monthly Min	11.0	0.99	0.765	0.829	0.464	0.912*
No. of Samples >Standard	1	0	0	1	0	0*
No. of Valid Samples	2	2	2	2	2	2*
% Valid Data	100	100	100	100	100	100*

*These results alone follow Rotek reporting protocol

Note: All non detectable results reported as $^{1\!\!/_2}$ the Reportable Detection Limit (RDL).

Comments:

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period Sampling Method Sampling Times : February 2025

: CARB429(ARBM1,M2) mod

: 24 hour duration starting at 00:00 EST on the Sample Date

Parameter	BaP
Units	ng/m ³
Analytical RDL	0.315
Annual Site Specific Standard	0.8

Sample Date			Loca	ation		
Sample Date	East	North	Old West	South	New West	STN29164
06-Feb-25						0.15
18-Feb-25						0.15
Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.15
Monthly Max	0.00	0.00	0.00	0.00	0.00	0.15
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.15
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	2
% Valid Data	100	100	100	100	100	100

Note: All non detectable results reported as $\frac{1}{2}$ the Reportable Detection Limit (RDL).

Comments

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period Sampling Methods Sampling Times : February 2025

: GC/MS (TO15)

: 24 hour duration starting at 00:00 EST on the Sample Date

Parameter	Benzene
Units	ug/m ³
Analytical RDL	0.319
Site Specific Standard	12.7

Sample Date			Loca	ation		
Sample Date	East	North	Old West	South	New West	STN29164
06-Feb-25						2.12
18-Feb-25						0.91
Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.52
Monthly Max	0.00	0.00	0.00	0.00	0.00	2.12
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.91
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	2
% Valid Data	100	100	100	100	100	100

Note: All non detectable results reported as $\frac{1}{2}$ the Reportable Detection Limit (RDL).

Comments

APPENDIX C

Chain of Custody Forms

C514450
2025/02/10 16:20



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LIENT	Company Name: Rain Carbo	n Canada Inc.				4										
NFORMATION	Project Manager: Robin Hart															
	e-mail: robin.hart@	raincarbon com				4				1						
	Address: 725Strathea					1						Í				
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	Phone: 1-647-281-8	094	Fax:													
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d West Monitor PAH Fe	ebruary 6, 2025 ANJO74-01	330,70		6-Feb-25	24 hours	x						-			-	
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	nmental Engineer	Affiliation:		Nº.												
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PAH Sample Submission Sheet

Sample Date	06-Feb-25
Project ID	Rain Carbon Canada Inc
Sampler Model	TE-1000
Site Operator	York Zhang / Robin Har

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station No.	Sample Date	PUF Cartridge #	Maxxam Filter ID #	Install Date Install Time	MAGN On inH2O	Removal Date Removal Time	MAGN Off inH2O	Total Volume m3	Submission Date
STN29164	06 Feb 2025	PUF #1	ANKOZO OL	03-Feb-25		10-Feb-25			
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BUREAU VERITAS			6740 Cam Mississaug www.bylab	ga Ontario	,L5N 2L8	Phone: Fax:	1-800-668- (905) 817-5 (905) 817-5	700		Cha	in of	Cus	stody	Form	n - PUF	- / PAł		YSIS R	EQUES	Page _	1 of _	_2_
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Contact Name	:	Paul Daszko		Project	Project Manager: Paul Daszko				(BH J			AMBIENT/COMMERCIAL/INDUSTRIAL		erence	drocart	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	13				
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E-mail:	poore@r	otekinc.com		E-mail:	jennifer.dav	cuu	IUM	DUR	DOUN	COMI	GA:	FULL LIST OF VOCs (reference TO15A)		0-90	OC's	UF b	ANALYZE			S NO		
Ph:	905 573	9533		Ph:	905 573 95	TVA	ACL	VAPO	INTI	ENT/	SLAB			F1 ((v bei	on P	NOT AI			TER		
Sampled by:	Robin H	art						START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBII	SUB-SLAB GAS	FULL	BTEX/	BTEX	Select	PAHs on PUF by EPA TO13	DO NC			CANISTERS NOT USED
	Fie	eld Sample ID			BV PUF ID #	Flow Regulator Serial #	Retrieval Date															te i
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Client Signature:	Doug Cu	nningham	010		Received by:	2	Suca			LVA	N		4		y result	-						
Date/Time:		ary 11 2025	9:3	50	Date/Time:				39 :				dasz	ko@ro	tekinc.	com				rotekind		
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INFORMATION F	Project Manager: Robin Hart					-				l f			1		
	e-mail: <u>robin.hart@</u>		<u>]</u>			4		2							
	Address: 725Strather					4 (201	42.00					4		
SECTION	Hamilton, C	N													
	Phone: 1-647-281-	3094	Fax:												
	Sampled by: Robin Hart						k.								
	- 1120 - 1100000 - 2	Total Volume		Collection	Sample Collection		1						-		
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East Monitor PAH February	18, 2025 ANJP51-01	305.90		18-Feb-25	24 hours	×									
North Monitor PAH Februar	y 18, 2025 ANJP52-01	306.40		18-Feb-25	24 hours	x	AS	- 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990							
Old West Monitor PAH Feb	ruary 18, 2025 ANJP53-01	323.30		18-Feb-25	24 hours	×		-							
South Monitor PAH Februar		318.10		18-Feb-25	24 hours	×			i i		1				
New West Monitor PAH Fel		298,60		18-Feb-25	24 hours	x							0000	1	
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Rush 2 Business day * 📋	PO #: 450061002							PROJ	ECT SP	ECIFIC	COMME	INTS			
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Cllent Signature: Robin H		Received by:	54	- 50	GAR	SALVAN									
	mental Engineer	Affiliation:	100-	1.01	20-	12 10		1							
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Contact Name					Project Manager: Paul Daszko				f Hg)			NDUST		erence	ydrocal	2 (C10	specif	013				
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Client Signature: Doug Cunningham Received by:						A	An	121	RC.	-	`	-		y result	-	-	ng@rai	ncarbo	n.com,			
Date/Time:	Febru	ary 20 2025	10:1	10	Date/Time:	6	24501	400		01	1		dasz	ko@ro	Drainca otekinc.	com						
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15 Keefer Court Hamilton, Ontario L8E 4V4 Phone 905 573 9533 Fax 905 578 5167

PAH Sample Submission Sheet

Sample Date	06-Feb-25
Project ID	Rain Carbon Canada Inc
Sampler Model	TE-1000
Site Operator	York Zhang / Robin Hart

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station No.	Sample Date	PUF	Maxxam	install Date	MAGN On	Removal Date	MAGN Off	Total Volume	Submission
Station NO.	Sample Date	Cartridge #	Filter ID #	Install Time	InH2O	Removal Time	InH2O	m3	Date
CTN/20464	18 Feb 2025	PUF #1		14-Feb-25	-123	19-Feb-25	- 1 400 - 1 / 200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 1	2007 07 Terraryov Menz ve Server 197	
STN29164	16 Feb 2025	ANKD78-01	ANKD77-01	16:00	40	12:45	40	347,5	20-Feb-25
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E-mail:	robin.hart(@raincarbon.	com	E-mail:	robin.hart@	graincarbor	1.com	ACUL	NUN	OUR	INDO	(COM	B GA	L OF	hatic/	C6-0	.)OC				SS N
Ph:	1-647-281	-8094		Ph:	1-647-281-	8094		RTV	VAC	VAP	ENT	ENT	SLAI	CIS.	Aron ons	CIF1 (ted				STEF
Sampled by:	Robin Har	t		-				STAF	END	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBI	SUB-SLAB GAS	FULL	BTEX	BTEX	Selec	Other			CANISTERS NOT USED
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Client Signatur	e: Robin Har			er/Line Item er	Received by	fp)	RHO						-								
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VOC Canister Sample Submission Sheet

Sample Date	06-Feb-25							
Project Name	Rain Carbon Canada In							
Contact Name	Paul Daszko							
Contact Number	905 531 2815							

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station Number	Canister ID Number	Sample Date	Installation Date	Installation Time	Initial Pressure	Time On	Time Off	Elapsed Time	Final Pressure	Retrieval Date	Retrieval Time
Number	Number	dd/mm/yy	dd/mm/yy	EST	inHg	EST	EST	Hours	inHg	dd/mm/yy	EST
STN29164	14520	06-Feb-25	03-Feb-25	12:30	-30.0	00:01	23:59	24.0	-9.0	10-Feb-25	12:00
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	Comment 1	:									

Comment 2 :

		54.55	-Feb-20																
A		Cristina	(Maria)	Bacchus													CAM FC	D-01302 /3	5
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Company Nar	ne: Rotek Enviror	nmental Inc Company	Name:	Rotek Envi	ronmental Inc	8	1			IRIAL		VOCs (reference TO15A)	urbon)-C16)	کر ا				
Contact Name	Paul Daszko	Project Ma	nager:	Paul Daszk	0	of Hg)	(BH			Sna		renc	droca	(C10	peci				
Address:	15 Keefer Court Hamilto	Address:	15 Keefer	Court Hamilt	on	START VACUUM (inches	END VACUUM (inches of Hg)		AIR	AMBIENTICOMMERCIALINDUSTRIAL		s (refe	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	lyze			SED
	ON L8E 4V4		ON L8E 4	/4		i) W	(incl	1.1	OR	MER	0	ş	Hqil	10) a	d -	Ana			DIC
E-mail:	poore@rotekinc.com	E-mail:	jennifer.da	vies@rotek	inc.com	cuu	IUM	DUR	DON	COMI	GA	۳.	atic//	0-90	OC's	- Do Not Analyze			IS NO
Ph:	905 573 9533	Ph:	905 573 95	533		TVA	ACL	VAPOUR	ENTI	ENTA	ILAB	LIST	Arom	F1 ((A bei	Po-			STER
Sampled by:	Robin Hart					STAR	END	SOIL	AMBIENT/INDOOR AIR	AMBI	SUB-SLAB GAS	FULL	BTEX	BTEX	Select	Other			CANISTERS NOT USED
	Field Sample ID	1	Canister Serial #	Flow Regulator Serial #	Retrieval Date														
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TAT Requiren STD 10 Busine Rush 5 Busine Rush 2 Busine Rush Other *	ess day	PROJECT INFORMA Project #: Name: Rain Carbo PO #: 32669 Bureau Veritas Quote #: Bureau Veritas Contact:			REPORTING REQ	EDD Regula Other	ations	ON 1 ON 4 BC C	19		soil v 2) pla PRC	ease in apour ease lis DJECT	or ambi st all car SPEC	ent air histers o IFIC C	on the c	chain of	our samp custody e upon re	əvən if unus	sed
	val from Bureau Veritas	Task Order/Line Item	L	C A	Guerra (11.	111	/			- ORIGANDA	CAN DO DO DA	or Benz			0.000000000			
Client Signature	Doug Cunningham			Sal	J. Q.	AU	RL										lincarbor		
Date/Time:	February 11 2025	9:30			1.02/11		:4		21.0	1923 - 65	das	zko@	rotekind	.com	(8.5)	-		rotekinc.co	
	agreed to in writing, work submi .com/terms-and-conditions	tted on this Chain of Custody	is subject to Bu	reau Veritas La	boratories' standard Terr	ns and C	onditions	. Signin	g of thi	s Chain	of Cus	tody doc	ument is a	acknowle	dgment a	ind accept	ance of our	terms availab	ble at

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BUREAU VERITAS			Mississau www.bvlat	ga Ontario ,L	5N 2L8		(905) 817- (905) 817-											VCIC P	EQUES			
				<u>13.com</u>	REPORT I			5777						5A								
Company Na	me:	Rain Carbon	Canada Inc	Company N	ame:	Rain Carb	on Canada					IAL		FULL LIST OF VOCs (reference TO15A	u	BTEX/F1 (C6-C10) and F2 (C10-C16)						
								Hg)				STR		JCe	carb	10-0	cify					
Contact Nam	e <u>:</u>	Robin Hart		Project Man	ager:	Robin Har	t	s of	f Hg			NDN		ferei	ydro	5 (C	spe					
Address:	725Strat	hearne Avenue)	Address:	725Strathe	arne Aven	ue	che:	es o		NR	IAL/I		tref	tic H	ηd F	ase					SED
	Hamilton	ON			Hamilton, C	ON		START VACUUM (inches of Hg)	END VACUUM (inches of Hg)		AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL		0Cs	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	0) aı	Selected VOC's - please specify					CANISTERS NOT USED
E-mail:		t@raincarbon.	com	E-mail:	robin.hart@			ทกก) MI	R	ĎŌ	MMO	GAS	ΡFΛ	tic/A	- <u>-</u>	C's					No.
							<u>1.com</u>	VAC	CUL	VAPOUR		IT/C	SUB-SLAB GAS	ST (omat	1 (C						ERS
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Sampled by:	Robin Ha	art						ST₽	ENC	SOIL	AMI	AMI	SUE	FUL	BTE Frac	BTE	Sele	Other				CAN
		Field Sample II)		Canister	Flow Regulator	Collection															
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North Canister Old West Can			25		23743 7805		08-Feb-25 08-Feb-25										X X					
		Tebruary 0, 20	20		7005	'	00-1 60-23										^					
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Rush 5 Busine				Robin Hart			-	Regula	ations	ON 1	53						on the c	hain of	custod	y even i	f unuse	d
Rush 2 Busine	ess day *			4500610028	8					ON 4							_					
Rush Other *				itas Quote #: itas Contact:	Cristina Ba	lochus	-	Other		BC C	SR		PRC	JECT	SPEC		омме	NTS				
* need approv	val from Bu	ureau Veritas		er/Line Item			1	2														
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Client Signature	e: Robin Ha	ar <u>t Environmen</u>	tal Enginee	r	Received by	/:							$\frac{1}{2}$									
Date/Time:	11-Feb-2	5 6:00 PM			Date/Time:								PLE	ASE I	RETUR			ED EC		ENT		
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Company Na		0. N	Company N			on Canada				1170	IIAL		FULL LIST OF VOCs (reference TO15A	LO	C16)	-					
Contact Nam	e:Robin Hart		Project Man	ager:	Robin Har	t	of Hg)	Hg)		nd.	AMBIENT/COMMERCIAL/INDUSTRIAL		rence	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify					
Address:	725Strathearne Avenue		Address:	725Strathe	arne Avenu	ie	START VACUUM (inches of Hg)	END VACUUM (inches of Hg)		AIR	CIALAN	ALC. I	s (refe	atic Hy	and F2	ease s					SED
	Hamilton, ON			Hamilton, C	N		i) Wi	(inc	and and	OR	MER	S	VOC	Aliph	10)	d-s					DTU
E-mail:	robin.hart@raincarbon.c	com	E-mail:	robin.hart@	(raincarbor	i.com	cuu	IUM	DUR	NDO	NOC	GAS	OF	atic/#	2-92	oc.º					SNG
Ph:	1-647-281-8094		Ph:	1-647-281-	8094		T VA	ACL	APO	I/LN3	NTI	LAB	LIST	Vrom	F1 (0	v ba					TER
Sampled by:	Robin Hart						STAR	END V	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIE	SUB-SLAB	FULLI	BTEX/	BTEX/	Select	Other				CANISTERS NOT USED
	Field Sample II	Э		Canister Serial #	Flow Regulator Serial #	Collection Date					100										
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	er VOC February 18, 2025			2926		18-Feb-25			120	1	1200	1				x					
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	e: Robin Har <u>t Environmen</u>			Received by		\sim	M	w	P	~	_										
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						12	-	10	66	65	-										

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VOC Canister Sample Submission Sheet

Sample Date	18-Feb-25							
Project Name	Rain Carbon Canada Ir							
Contact Name	Paul Daszko							
Contact Number	905 531 2815							

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station Number	Canister ID Number	Sample Date					Sample Date	Sample Date	Installation Date	Installation Time	Initial Pressure	Time On	Time Off	Elapsed Time	Final Pressure	Retrieval Date	Retrieval Time
		dd/mm/yy	dd/mm/yy	EST	inHg	EST	EST	Hours	inHg	dd/mm/yy	EST						
STN29164	29307	18-Feb-25	14-Feb-25	16:00	-30.0	00:01	23:59	24.0	-9.0	19-Feb-25	12:30						
	Comment 1	:															
	Comment 2	:		6													

					20-1	eh-2	5 10:	11											
			ATT)	Cristina (M	Maria) Bac	chus	\$								CAM FC	D-01302 /3	3
		6740 Campobello Rd Mississauga Ontario , www.bylabs.com	L5N 2L8	Toll Free: Phone: Fax:	C517						ody	Form	n - Sun	nma™			F EQUEST	°age _2 c ED	of2_
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Company Nar	me: Rotek Environ	nmental Inc Company	Name:	Rotek Envi	ronmental Inc		125			IAL		T015/	۲Q	:16)					
Contact Name	e: Paul Daszko	Project M	anager:	Paul Daszk	0	of Hg)	of Hg)			AMBIENT/COMMERCIAL/INDUSTRIAL		OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify				
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E-mail:	poore@rotekinc.com	E-mail:	jennifer.da	vies@roteki	inc.com	START VACUUM (inches	END VACUUM (inches	OUR	AMBIENT/INDOOR AIR	COMIN	SUB-SLAB GAS	L OF V	natic/A	C6-C1	/oc's	- Do Not Analyze			CANISTERS NOT USED
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Sampled by:	Robin Hart					STAR	END	SOIL VAPOUR	AMBII	AMBI	S-BUB-	FULL LIST	BTEX/	BTEX	Select	Other			CANIS
	Field Sample ID	,	Canister Serial #	Flow Regulator Serial #	Retrieval Date														
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STN29	0164 18-Feb-25		29307		19-Feb-25			-			1.20				X				
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Rush 2 Busine Rush Other *	ess day *	PO #: 32669 Bureau Veritas Quote #:						ON 4 BC C			PRC	IECT	SPEC		OMME	INTS			
Rush Other		Bureau Veritas Contact:		icchus		Other		000									upon re	ceipt.	
* need approv	val from Bureau Veritas	Task Order/Line Item									Ana	lyse f	or Benz	ene on	ly in ug	g/m ³ .	10	1	
	. Doug Cunningham		Received by		MA	X	na	2			1111220017	1997 (1997) 1997 - 1997 (1997)			0.0000000000000000000000000000000000000		aincarbo	n.com,	
Date/Time:	February 20 2025	10:10	Date/Time	20	is our	101	1 4	114	44		K		t@raind rotekind		.com, je	ennifer.	davies@	rotekinc.co	om,
	agreed to in writing, work submi com/terms-and-conditions	tted on this Chain of Custody	is subject to Bu	reau Veritas La	boratories' standard Terr	ms and Co	onditions.	Signin	g of this	Chain	of Cust	ody doc	ument is a	acknowle	dgment a	ind accept	lance of our	terms availat	ble at

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APPENDIX D

Certificates of Analysis



Your P.O. #: 4500625271 Site Location: RAIN CARBON CANADA INC. Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/02/26 Report #: R8493673 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514450 Received: 2025/02/10, 16:20

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	5	2025/02/10	2025/02/10	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/02/12	2025/02/25	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/02/10		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (k) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.

Page 1 of 9 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



Your P.O. #: 4500625271 Site Location: RAIN CARBON CANADA INC. Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/02/26 Report #: R8493673 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514450 Received: 2025/02/10, 16:20

Encryption Key

Julian Tong Project Manager Assistant 26 Feb 2025 16:52:49 A

Please direct all questions regarding this Certificate of Analysis to: Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com Phone# (905) 817-5700

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

> Total Cover Pages : 2 Page 2 of 9 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ANYO34	ANYO35	ANYO36	ANYO37	
Sampling Date		2025/02/06	2025/02/06	2025/02/06	2025/02/06	
COC Number		N/A	N/A	N/A	N/A	
	UNITS	EAST MONITOR PAH FEBRURAY 6, 2025 ANJO72-01	NORTH MONITOR PAH FEBRUARY 6, 2025 ANJO73-01	OLD WEST MONITOR PAH FEBRUARY 6, 2025 ANJO74-01	SOUTH MONITOR PAH FEBRURAY 6, 2025 ANJO75-01	QC Batch
Volume	m3	327.0	300.9	330.7	312.2	ONSITE
QC Batch = Quality Control E	Batch					

Bureau Veritas ID Sampling Date		ANYO38 2025/02/06	
COC Number		N/A	
	UNITS	NEW WEST MONITOR PAH FEBRUARY 6, 2025 ANJO76-01	QC Batch
Volume	m3	316.6	ONSITE
QC Batch = Quality Control B	atch		



SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ANYO34	ANYO35	ANYO36	ANYO37		
Sampling Date		2025/02/06	2025/02/06	2025/02/06	2025/02/06		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH FEBRURAY 6, 2025 ANJO72-01	NORTH MONITOR PAH FEBRUARY 6, 2025 ANJO73-01	OLD WEST MONITOR PAH FEBRUARY 6, 2025 ANJO74-01	SOUTH MONITOR PAH FEBRURAY 6, 2025 ANJO75-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.10	0.10	0.12	<0.10	0.10	9874866
Surrogate Recovery (%)							
D10-2-Methylnaphthalene	%	81	96	98	101		9874866
D10-Fluoranthene	%	84	86	80	84		9874866
D10-Phenanthrene	%	84	87	79	85		9874866
D12-Benzo(a)anthracene	%	84	81	84	78		9874866
D12-Benzo(a)pyrene	%	80	79	82	80		9874866
D12-Benzo(b)fluoranthene	%	89	87	87	85		9874866
D12-Benzo(ghi)perylene	%	84	79	82	77		9874866
D12-Benzo(k)fluoranthene	%	77	76	77	71		9874866
D12-Chrysene	%	82	79	80	78		9874866
D12-Indeno(1,2,3-cd)pyrene	%	87	83	87	81		9874866
D12-Perylene	%	86	75	82	68		9874866
D14-Dibenzo(a,h)anthracene	%	87	84	88	81		9874866
D14-Terphenyl (FS)	%	90	94	86	92		9874866
D8-Acenaphthylene	%	79	84	70	83		9874866
D8-Naphthalene	%	107	76	84	78		9874866

QC Batch = Quality Control Batch



SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

	ANYO38		
	2025/02/06		
	N/A		
UNITS	NEW WEST MONITOR PAH FEBRUARY 6, 2025 ANJO76-01	RDL	QC Batch
ug	<0.10	0.10	9874866
%	94		9874866
%	83		9874866
%	84		9874866
%	77		9874866
%	73		9874866
%	86		9874866
%	76		9874866
%	69		9874866
%	76		9874866
%	80		9874866
%	68		9874866
%	80		9874866
%	90		9874866
%	80		9874866
%	71	1	9874866
	ug % % % % % % % % % % %	2025/02/06 N/A NEW WEST MONITOR PAH FEBRUARY 6, 2025 ANJO76-01 ug <0.10	2025/02/06 Image: Constraint of the sector of

Page 5 of 9 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ANYO34		ANYO35		ANYO36		
Sampling Date		2025/02/06		2025/02/06		2025/02/06		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH FEBRURAY 6, 2025 ANJO72-01	RDL	NORTH MONITOR PAH FEBRUARY 6, 2025 ANJO73-01	RDL	OLD WEST MONITOR PAH FEBRUARY 6, 2025 ANJO74-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	<0.00031	0.00031	0.00033	0.00033	0.00036	0.00030	9873515
RDL = Reportable Detec QC Batch = Quality Con								

Bureau Veritas ID ANYO37 ANYO38 Sampling Date 2025/02/06 2025/02/06 COC Number N/A N/A NEW WEST SOUTH MONITOR MONITOR PAH UNITS PAH FEBRURAY 6, RDL QC Batch **FEBRUARY 6, 2025** 2025 ANJO75-01 ANJ076-01 **Calculated Parameters** Benzo(a)pyrene ug/m3 < 0.00032 < 0.00032 0.00032 9873515 RDL = Reportable Detection Limit QC Batch = Quality Control Batch



GENERAL COMMENTS

Results relate only to the items tested.

Page 7 of 9 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9874866	CTC	Spiked Blank	D10-2-Methylnaphthalene	2025/02/25		85	%	50 - 150
			D10-Fluoranthene	2025/02/25		87	%	50 - 150
			D10-Phenanthrene	2025/02/25		79	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/25		80	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/25		85	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/25		89	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/25		84	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/25		81	%	50 - 150
			D12-Chrysene	2025/02/25		86	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/25		89	%	50 - 150
			D12-Perylene	2025/02/25		84	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/25		88	%	50 - 150
			D8-Acenaphthylene	2025/02/25		79	%	50 - 150
			D8-Naphthalene	2025/02/25		73	%	50 - 150
			Benzo(a)pyrene	2025/02/25		85	%	50 - 150
9874866	CTC	RPD	Benzo(a)pyrene	2025/02/25	13		%	50
9874866	CTC	Method Blank	D10-2-Methylnaphthalene	2025/02/25		75	%	50 - 150
			D10-Fluoranthene	2025/02/25		82	%	50 - 150
			D10-Phenanthrene	2025/02/25		82	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/25		71	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/25		79	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/25		76	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/25		70	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/25		72	%	50 - 150
			D12-Chrysene	2025/02/25		71	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/25		72	%	50 - 150
			D12-Perylene	2025/02/25		47 (1)	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/25		73	%	50 - 150
			D8-Acenaphthylene	2025/02/25		84	%	50 - 150
			D8-Naphthalene	2025/02/25		74	%	50 - 150
			Benzo(a)pyrene	2025/02/25	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

(1) Recovery below control limit. Minimal impact to data as labelled surrogate does not calculate native recovery and Perylene is not a parameter of concern.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/02/26 Report #: R8493672 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514716 Received: 2025/02/11, 09:40

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2025/02/11	2025/02/26	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/02/12	2025/02/25	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2025/02/11		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (k) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.

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Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/02/26 Report #: R8493672 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514716 Received: 2025/02/11, 09:40

Encryption Key



Bureau Veritas 26 Feb 2025 16:35:00

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

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RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ANZA34						
Sampling Date		2025/02/06						
COC Number		N/A						
	UNITS	STN29164 06-FEB-25 PUF#1	QC Batch					
Volume	m3	326.6	ONSITE					
QC Batch = Quality Control Batch								

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SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ANZA34		
Sampling Date		2025/02/06		
COC Number		N/A		
	UNITS	STN29164 06-FEB-25 PUF#1	RDL	QC Batch
Benzo(a)pyrene	ug	<0.10	0.10	9874866
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	86		9874866
D10-Fluoranthene	%	84		9874866
D10-Phenanthrene	%	80		9874866
D12-Benzo(a)anthracene	%	82		9874866
D12-Benzo(a)pyrene	%	82		9874866
D12-Benzo(b)fluoranthene	%	94		9874866
D12-Benzo(ghi)perylene	%	83		9874866
D12-Benzo(k)fluoranthene	%	74		9874866
D12-Chrysene	%	80		9874866
D12-Indeno(1,2,3-cd)pyrene	%	87		9874866
D12-Perylene	%	82		9874866
D14-Dibenzo(a,h)anthracene	%	87		9874866
D14-Terphenyl (FS)	%	88		9874866
D8-Acenaphthylene	%	74		9874866
D8-Naphthalene	%	64		9874866
RDL = Reportable Detection Li	mit		•	-
QC Batch = Quality Control Bat	tch			

Page 4 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ANZA34		
Sampling Date		2025/02/06		
COC Number		N/A		
	UNITS	STN29164 06-FEB-25	RDL	QC Batch
		PUF#1		
Benzo(a)pyrene	ng/m3	PUF#1 <0.31	0.31	9873995

Page 5 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9874866	CTC	Spiked Blank	D10-2-Methylnaphthalene	2025/02/25		85	%	50 - 150
		D10-Fluoranthene	2025/02/25		87	%	50 - 150	
			D10-Phenanthrene	2025/02/25		79	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/25		80	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/25		85	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/25		89	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/25		84	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/25		81	%	50 - 150
			D12-Chrysene	2025/02/25		86	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/25		89	%	50 - 150
			D12-Perylene	2025/02/25		84	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/25		88	%	50 - 150
			D8-Acenaphthylene	2025/02/25		79	%	50 - 150
			D8-Naphthalene	2025/02/25		73	%	50 - 150
			Benzo(a)pyrene	2025/02/25		85	%	50 - 150
9874866	CTC	RPD	Benzo(a)pyrene	2025/02/25	13		%	50
9874866	CTC	Method Blank	D10-2-Methylnaphthalene	2025/02/25		75	%	50 - 150
			D10-Fluoranthene	2025/02/25		82	%	50 - 150
			D10-Phenanthrene	2025/02/25		82	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/25		71	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/25		79	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/25		76	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/25		70	%	50 - 150
	D12-Benzo(k)fluoranthene	2025/02/25		72	%	50 - 150		
		D12-Chrysene	2025/02/25		71	%	50 - 150	
		D12-Indeno(1,2,3-cd)pyrene	2025/02/25		72	%	50 - 150	
		D12-Perylene	2025/02/25		47 (1)	%	50 - 150	
			D14-Dibenzo(a,h)anthracene	2025/02/25		73	%	50 - 150
			D8-Acenaphthylene	2025/02/25		84	%	50 - 150
			D8-Naphthalene	2025/02/25		74	%	50 - 150
			Benzo(a)pyrene	2025/02/25	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

(1) Recovery below control limit. Minimal impact to data as labelled surrogate does not calculate native recovery and Perylene is not a parameter of concern.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your P.O. #: 4500625271 Your Project #: RAIN CARBON CANADA INC Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/03/07 Report #: R8498668 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C518432 Received: 2025/02/20, 17:17

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	<pre>Extracted</pre>	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	5	2025/02/21	2025/03/07	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/02/22	2025/03/03	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/02/21		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (k) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.

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Your P.O. #: 4500625271 Your Project #: RAIN CARBON CANADA INC Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/03/07 Report #: R8498668 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C518432 Received: 2025/02/20, 17:17

Encryption Key

Julian Tong Project Manager Assistant 07 Mar 2025 17:11:38 1

Please direct all questions regarding this Certificate of Analysis to: Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com Phone# (905) 817-5700

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RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AOFT06	AOFT07	AOFT08	AOFT09	
Sampling Date		2025/02/18	2025/02/18	2025/02/18	2025/02/18	
COC Number		N/A	N/A	N/A	N/A	
	UNITS	EAST MONITOR PAH FEBRUARY 18, 2025 ANJP51-01	NORTH MONITOR PAH FEBRUARY 18, 2025 ANJP52-01	OLD WEST MONITOR PAH FEBRUARY 18, 2025 ANJP53-01	SOUTH MONITOR PAH FEBRUARY 18, 2025 ANJP54-01	QC Batch
Volume	m3	305.9	306.4	323.3	318.1	ONSITE
QC Batch = Quality Contr	ol Batch					

Bureau Veritas ID		AOFT10	
Sampling Date		2025/02/18	
COC Number		N/A	
	UNITS	NEW WEST MONITOR PAH FEBRUARY 18, 2025 ANJP55-01	QC Batch
Volume	m3	298.6	ONSITE
QC Batch = Quality Control Ba	atch		

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SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		AOFT06		AOFT07		AOFT08		
Sampling Date		2025/02/18		2025/02/18		2025/02/18		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH FEBRUARY 18, 2025 ANJP51-01	RDL	NORTH MONITOR PAH FEBRUARY 18, 2025 ANJP52-01	RDL	OLD WEST MONITOR PAH FEBRUARY 18, 2025 ANJP53-01	RDL	QC Batch
Semivolatile Organics								
Benzo(a)pyrene	ug	<0.18 (1)	0.18	<0.14 (1)	0.14	<0.18 (1)	0.18	9879549
Surrogate Recovery (%)	•							
D10-2-Methylnaphthalene	%	79		81		78		9879549
D10-Fluoranthene	%	61		66		68		9879549
D10-Fluorene (FS)	%	66		70		66		9879549
D10-Phenanthrene	%	72		77		76		9879549
D12-Benzo(a)anthracene	%	60		67		62		9879549
D12-Benzo(a)pyrene	%	79		86		85		9879549
D12-Benzo(b)fluoranthene	%	82		89		77		9879549
D12-Benzo(ghi)perylene	%	55		61		57		9879549
D12-Benzo(k)fluoranthene	%	55		67		60		9879549
D12-Chrysene	%	58		65		60		9879549
D14-Terphenyl (FS)	%	70		76		78		9879549
D8-Acenaphthylene	%	72		79		76		9879549
D8-Naphthalene	%	82		71		73		9879549

(1) Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.



SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		AOFT09		AOFT10		
Sampling Date		2025/02/18		2025/02/18		
COC Number		N/A		N/A		
	UNITS	SOUTH MONITOR PAH FEBRUARY 18, 2025 ANJP54-01	RDL	NEW WEST MONITOR PAH FEBRUARY 18, 2025 ANJP55-01	RDL	QC Batch
Semivolatile Organics						
Benzo(a)pyrene	ug	<0.22 (1)	0.22	<0.24 (1)	0.24	9879549
Surrogate Recovery (%)						
D10-2-Methylnaphthalene	%	84		83		9879549
D10-Fluoranthene	%	64		62		9879549
D10-Fluorene (FS)	%	70		68		9879549
D10-Phenanthrene	%	76		74		9879549
D12-Benzo(a)anthracene	%	66		68		9879549
D12-Benzo(a)pyrene	%	83		89		9879549
D12-Benzo(b)fluoranthene	%	74		74		9879549
D12-Benzo(ghi)perylene	%	57		61		9879549
D12-Benzo(k)fluoranthene	%	64		65		9879549
D12-Chrysene	%	66		65		9879549
D14-Terphenyl (FS)	%	74		76		9879549
D8-Acenaphthylene	%	82		79		9879549
D8-Naphthalene	%	73		70		9879549
RDL = Reportable Detection I QC Batch = Quality Control B (1) Peak detected does not m	atch	o criteria and has result	ed in a	n elevated detection li	mit.	

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CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AOFT06		AOFT07		AOFT08		
Sampling Date		2025/02/18	8	2025/02/18		2025/02/18		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONIT PAH FEBRUAR 2025 ANJP51	(18, RDL	NORTH MONITOR PAH FEBRUARY 18, 2025 ANJP52-01		OLD WEST MONITOR PAH FEBRUARY 18, 2025 ANJP53-01	RDL	QC Batch
Calculated Paramet	ers							
Benzo(a)pyrene	ug/m3	<0.00059	0.00059	<0.00046	0.00046	<0.00056	0.00056	9879058
RDL = Reportable De QC Batch = Quality (
Bur	reau Veritas ID		AOFT09		AOFT10			
San	npling Date		2025/02/1	8	2025/02/1	8		

bureau veritas iD		AUF109		AUFIIU		
Sampling Date		2025/02/18		2025/02/18		
COC Number		N/A		N/A		
	UNITS	SOUTH MONITOR PAH FEBRUARY 18, 2025 ANJP54-01	RDL	NEW WEST MONITOR PAH FEBRUARY 18, 2025 ANJP55-01	RDL	QC Batch
Calculated Parameters						
Benzo(a)pyrene	ug/m3	<0.00069	0.00069	<0.00080	0.00080	9879058
RDL = Reportable Detection QC Batch = Quality Control I						
QC Daten - Quality Control I	Jacon					

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9879549	CTC	Spiked Blank	D10-2-Methylnaphthalene	2025/03/03		72	%	50 - 150
			D10-Fluoranthene	2025/03/03		67	%	50 - 150
			D10-Phenanthrene	2025/03/03		68	%	50 - 150
			D12-Benzo(a)anthracene	2025/03/03		67	%	50 - 150
			D12-Benzo(a)pyrene	2025/03/03		68	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/03/03		68	%	50 - 150
			D12-Benzo(ghi)perylene	2025/03/03		71	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/03/03		67	%	50 - 150
			D12-Chrysene	2025/03/03		69	%	50 - 150
			D8-Acenaphthylene	2025/03/03		65	%	50 - 150
			D8-Naphthalene	2025/03/03		60	%	50 - 150
			Benzo(a)pyrene	2025/03/03		68	%	50 - 150
9879549	CTC	RPD	Benzo(a)pyrene	2025/03/03	7.1		%	50
9879549	CTC	Method Blank	D10-2-Methylnaphthalene	2025/03/03		81	%	50 - 150
			D10-Fluoranthene	2025/03/03		63	%	50 - 150
			D10-Phenanthrene	2025/03/03		69	%	50 - 150
			D12-Benzo(a)anthracene	2025/03/03		63	%	50 - 150
			D12-Benzo(a)pyrene	2025/03/03		68	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/03/03		72	%	50 - 150
			D12-Benzo(ghi)perylene	2025/03/03		71	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/03/03		67	%	50 - 150
			D12-Chrysene	2025/03/03		73	%	50 - 150
			D8-Acenaphthylene	2025/03/03		72	%	50 - 150
			D8-Naphthalene	2025/03/03		71	%	50 - 150
			Benzo(a)pyrene	2025/03/03	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

Julian Tong, Project Manager Assistant

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Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC. Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/03/07 Report #: R8498667 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C518421 Received: 2025/02/20, 10:11

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2025/02/21	2025/03/07	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/02/22	2025/03/03	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2025/02/21		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (k) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.

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Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC. Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/03/07 Report #: R8498667 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C518421 Received: 2025/02/20, 10:11

Encryption Key



Bureau Veritas 07 Mar 2025 12:54:15

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

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RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AOFS16					
Sampling Date		2025/02/18					
COC Number		N/A					
	UNITS	STN29164 18-FEB-25 PUF#1	QC Batch				
Volume	m3	347.5	ONSITE				
QC Batch = Quality Control Batch							

Page 3 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		AOFS16		
Sampling Date		2025/02/18		
COC Number		N/A		
	UNITS	STN29164 18-FEB-25 PUF#1	RDL	QC Batch
Benzo(a)pyrene	ug	<0.16 (1)	0.16	9879549
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	86		9879549
D10-Fluoranthene	%	63		9879549
D10-Fluorene (FS)	%	70		9879549
D10-Phenanthrene	%	78		9879549
D12-Benzo(a)anthracene	%	70		9879549
D12-Benzo(a)pyrene	%	81		9879549
D12-Benzo(b)fluoranthene	%	73		9879549
D12-Benzo(ghi)perylene	%	66		9879549
D12-Benzo(k)fluoranthene	%	66		9879549
D12-Chrysene	%	71		9879549
D14-Terphenyl (FS)	%	90		9879549
D8-Acenaphthylene	%	76		9879549
D8-Naphthalene	%	67		9879549
RDL = Reportable Detection I QC Batch = Quality Control B (1) Pack detected does not m	atch			

 Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.



CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AOFS16								
Sampling Date		2025/02/18								
COC Number		N/A								
	UNITS	STN29164 18-FEB-25	RDL	QC Batch						
		PUF#1								
Benzo(a)pyrene	ng/m3									

Page 5 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limit
9879549	CTC	Spiked Blank	D10-2-Methylnaphthalene	2025/03/03		72	%	50 - 150
			D10-Fluoranthene	2025/03/03		67	%	50 - 150
			D10-Phenanthrene	2025/03/03		68	%	50 - 150
			D12-Benzo(a)anthracene	2025/03/03		67	%	50 - 150
			D12-Benzo(a)pyrene	2025/03/03		68	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/03/03		68	%	50 - 150
			D12-Benzo(ghi)perylene	2025/03/03		71	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/03/03		67	%	50 - 150
			D12-Chrysene	2025/03/03		69	%	50 - 150
			D8-Acenaphthylene	2025/03/03		65	%	50 - 150
			D8-Naphthalene	2025/03/03		60	%	50 - 150
			Benzo(a)pyrene	2025/03/03		68	%	50 - 150
9879549	CTC	RPD	Benzo(a)pyrene	2025/03/03	7.1		%	50
9879549	CTC	Method Blank	D10-2-Methylnaphthalene	2025/03/03		81	%	50 - 150
			D10-Fluoranthene	2025/03/03		63	%	50 - 150
			D10-Phenanthrene	2025/03/03		69	%	50 - 150
			D12-Benzo(a)anthracene	2025/03/03		63	%	50 - 150
			D12-Benzo(a)pyrene	2025/03/03		68	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/03/03		72	%	50 - 150
			D12-Benzo(ghi)perylene	2025/03/03		71	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/03/03		67	%	50 - 150
			D12-Chrysene	2025/03/03		73	%	50 - 150
			D8-Acenaphthylene	2025/03/03		72	%	50 - 150
			D8-Naphthalene	2025/03/03		71	%	50 - 150
			Benzo(a)pyrene	2025/03/03	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your P.O. #: 4500625271 Your Project #: RAIN CARBON CANADA INC. Your C.O.C. #: NA

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/02/25 Report #: R8492696 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514480 Received: 2025/02/10, 16:20

Sample Matrix: Air # Samples Received: 3

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	3	N/A	2025/02/12	1 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	3	N/A	2025/02/12	1 BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Page 1 of 7

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Your P.O. #: 4500625271 Your Project #: RAIN CARBON CANADA INC. Your C.O.C. #: NA

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/02/25 Report #: R8492696 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514480 Received: 2025/02/10, 16:20

Encryption Key

Julian Tong Project Manager Assistant 25 Feb 2025 17:40:38 A

Please direct all questions regarding this Certificate of Analysis to: Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com Phone# (905) 817-5700

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RESULTS OF ANALYSES OF AIR

Bureau Veritas ID Sampling Date COC Number		ANYQ50 2025/02/06 NA	ANYQ51 2025/02/06 NA	ANYQ52 2025/02/06 NA	
	UNITS	EAST CANISTER VOC FEBRAURY 6, 2025/249	SOUTH CANISTER VOC FEBRAURY 6, 2025/14538	NEW WEST CANISTER VOC FEBRAURY 6, 2025/7833	QC Batch
Volatile Organics					
Pressure on Receipt	psig	(-2.4)	(-2.8)	(-2.6)	9874481
QC Batch = Quality Control	Batch				



VOLATILE ORGANICS BY GC/MS (AIR)

-									
Bureau Veritas ID		ANYQ50			ANYQ51				
Sampling Date		2025/02/06			2025/02/06				
COC Number		NA			NA				
	UNITS	EAST CANISTER VOC FEBRAURY 6, 2025/249	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC FEBRAURY 6, 2025/14538	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	4.07	13.0	0.319	5.63	0.10	18.0	0.319	9874480
Surrogate Recovery (%)			4	• • • •					
Bromochloromethane	%	95	N/A	N/A	94		N/A	N/A	9874480
D5-Chlorobenzene	%	93	N/A	N/A	92		N/A	N/A	9874480
Difluorobenzene	%	96	N/A	N/A	94		N/A	N/A	9874480
RDL = Reportable Detection QC Batch = Quality Control N/A = Not Applicable									
Bureau Veritas ID		ANYQ52			ANYQ52				
Sampling Date		2025/02/06			2025/02/06				
COC Number		NA			NA				
	UNITS	NEW WEST CANISTER VOC FEBRAURY 6, 2025/7833	ug/m3	DL (ug/m3)	NEW WEST CANISTER VOC FEBRAURY 6, 2025/7833 Lab-Dup	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	0.91	2.91	0.319	0.88	0.10	2.82	0.319	9874480
Surrogate Recovery (%)	•					•			
Bromochloromethane	%	94	N/A	N/A	95		N/A	N/A	9874480
D5-Chlorobenzene	%	92	N/A	N/A	92		N/A	N/A	9874480
Difluorobenzene	%	94	N/A	N/A	95		N/A	N/A	9874480
RDL = Reportable Detection QC Batch = Quality Control Lab-Dup = Laboratory Initia N/A = Not Applicable	Batch	ate							



GENERAL COMMENTS

Results relate only to the items tested.

Page 5 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9874480	ANE	Spiked Blank	Bromochloromethane	2025/02/11		101	%	60 - 140
			D5-Chlorobenzene	2025/02/11		100	%	60 - 140
			Difluorobenzene	2025/02/11		100	%	60 - 140
			Benzene	2025/02/11		98	%	70 - 130
9874480	ANE	Method Blank	Bromochloromethane	2025/02/11		98	%	60 - 140
			D5-Chlorobenzene	2025/02/11		96	%	60 - 140
			Difluorobenzene	2025/02/11		100	%	60 - 140
			Benzene	2025/02/11	<0.10		ppbv	
9874480	ANE	RPD [ANYQ52-01]	Benzene	2025/02/11	2.9		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Hulanie Mabri

Melanie Mabini, Team Leader

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Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC Your C.O.C. #: na

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/02/25 Report #: R8492718 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514565 Received: 2025/02/11, 09:40

Received: 2025/02/11, 05.4

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	<pre>Extracted</pre>	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2025/02/12	2 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/02/12	2 BRL SOP-00304	EPA TO-15 m

Remarks:

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Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Page 1 of 7

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC Your C.O.C. #: na

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/02/25 Report #: R8492718 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C514565 Received: 2025/02/11, 09:40

Encryption Key



Bureau Veritas 25 Feb 2025 15:15:04

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

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> Total Cover Pages : 2 Page 2 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ANYU19						
Sampling Date		2025/02/06						
COC Number		na						
	UNITS	STN29164 06-FEB- 25/14520	QC Batch					
Pressure on Receipt	psig	(-3.8)	9875424					
QC Batch = Quality Control Batch								

Page 3 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANYU19				
Sampling Date		2025/02/06				
COC Number		na				
	UNITS	STN29164 06-FEB- 25/14520	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.66	0.10	2.12	0.319	9874409
Surrogate Recovery (%)			•			
Bromochloromethane	%	92		N/A	N/A	9874409
D5-Chlorobenzene	%	88		N/A	N/A	9874409
Difluorobenzene	%	94		N/A	N/A	9874409
RDL = Reportable Detection L	imit					
QC Batch = Quality Control Ba	itch					
N/A = Not Applicable						

Page 4 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



GENERAL COMMENTS

Results relate only to the items tested.

Page 5 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9874409	TIM	Spiked Blank	Bromochloromethane	2025/02/12		104	%	60 - 140
			D5-Chlorobenzene	2025/02/12		103	%	60 - 140
			Difluorobenzene	2025/02/12		105	%	60 - 140
			Benzene	2025/02/12		104	%	70 - 130
9874409	TIM	Method Blank	Bromochloromethane	2025/02/12		102	%	60 - 140
			D5-Chlorobenzene	2025/02/12		96	%	60 - 140
			Difluorobenzene	2025/02/12		105	%	60 - 140
			Benzene	2025/02/12	<0.10		ppbv	
9874409	TIM	RPD	Benzene	2025/02/12	5.2		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Hulanie Mabri

Melanie Mabini, Team Leader

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Your P.O. #: 4500625271 Your Project #: RAIN CARBON CANADA INC Your C.O.C. #: NA

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/02/26 Report #: R8493508 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C515727 Received: 2025/02/13, 08:35

Sample Matrix: Air # Samples Received: 2

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	2	N/A	2025/02/13	3 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	2	N/A	2025/02/13	3 BRL SOP-00304	EPA TO-15 m

Remarks:

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Page 1 of 7

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



Your P.O. #: 4500625271 Your Project #: RAIN CARBON CANADA INC Your C.O.C. #: NA

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/02/26 Report #: R8493508 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C515727 Received: 2025/02/13, 08:35

Encryption Key

Julian Tong Project Manager Assistant 26 Feb 2025 16:30:23 1

Please direct all questions regarding this Certificate of Analysis to: Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com Phone# (905) 817-5700

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RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AOAS42	AOAS43	
Sampling Date		2025/02/08	2025/02/08	
COC Number		NA	NA	
	UNITS	NORTH CANISTER VOC FEBRUARY 8, 2025/23743	OLD WEST CANISTER VOC FEBRUARY 8, 2025/7805	QC Batch
Volatile Organics				
Pressure on Receipt	psig	(-3.1)	(-5.4)	9876787
QC Batch = Quality Control Ba	tch			

Page 3 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AOAS42			AOAS43				
Sampling Date		2025/02/08			2025/02/08				
COC Number		NA			NA				
	UNITS	NORTH CANISTER VOC FEBRUARY 8, 2025/23743	ug/m3	DL (ug/m3)	OLD WEST CANISTER VOC FEBRUARY 8, 2025/7805	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	2.27	7.25	0.319	2.23	0.10	7.13	0.319	9875269
Surrogate Recovery (%)									•
Bromochloromethane	%	87	N/A	N/A	87		N/A	N/A	9875269
D5-Chlorobenzene	%	83	N/A	N/A	83		N/A	N/A	9875269
Difluorobenzene	%	88	N/A	N/A	88		N/A	N/A	9875269
RDL = Reportable Detection L QC Batch = Quality Control Ba				·		•			
N/A = Not Applicable									



GENERAL COMMENTS

Results relate only to the items tested.

Page 5 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



QUALITY ASSURANCE REPORT

9875269	TIM	RPD	Benzene	2025/02/13	1.4		%	25
			Benzene	2025/02/13	<0.10		ppbv	
			Difluorobenzene	2025/02/13		107	%	60 - 140
			D5-Chlorobenzene	2025/02/13		99	%	60 - 140
9875269 TIM Method Blank	Bromochloromethane	2025/02/13		105	%	60 - 140		
			Benzene	2025/02/13		105	%	70 - 130
			Difluorobenzene	2025/02/13		107	%	60 - 140
			D5-Chlorobenzene	2025/02/13		105	%	60 - 140
9875269	TIM	Spiked Blank	Bromochloromethane	2025/02/13		106	%	60 - 140
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



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Hulanie Mabri

Melanie Mabini, Team Leader

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Your P.O. #: 4500610028 Your Project #: RAIN CARBON CANADA INC

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/03/05 Report #: R8497168 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C518366 Received: 2025/02/20, 17:17

Sample Matrix: Air

Samples Received: 5

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	5	N/A	2025/02/24	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2025/02/24	BRL SOP-00304	EPA TO-15 m

Remarks:

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

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Page 1 of 8

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Your P.O. #: 4500610028 Your Project #: RAIN CARBON CANADA INC

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

> Report Date: 2025/03/05 Report #: R8497168 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C518366 Received: 2025/02/20, 17:17

Encryption Key

Julian Tong Project Manager Assistant 05 Mar 2025 17:10:00 1

Please direct all questions regarding this Certificate of Analysis to: Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com Phone# (905) 817-5700

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> Total Cover Pages : 2 Page 2 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AOFP06	AOFP07	AOFP08	AOFP09	
Sampling Date		2025/02/18	2025/02/18	2025/02/18	2025/02/18	
	UNITS	EAST CANISTER VOC FEBRUARY 18,2025 #1241	NORTH CANISTER VOC FEBRUARY 18,2025 #27655	OLD WEST CANISTER VOC FEBRUARY 18,2025 #23478	SOUTH CANISTER VOC FEBRUARY 18,2025 #2926	QC Batch
Volatile Organics						
Pressure on Receipt	psig	(-4.5)	(-3.1)	(-5.2)	(-3.3)	9880590
QC Batch = Quality Contr	ol Batch			•		

Bureau Veritas ID		AOFP10	
Sampling Date		2025/02/18	
	UNITS	NEW WEST CANISTER VOC FEBRUARY 18,2025 #276	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-3.7)	9880590
QC Batch = Quality Control Ba			

Page 3 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AOFP06			AOFP07				
Sampling Date		2025/02/18			2025/02/18				
	UNITS	EAST CANISTER VOC FEBRUARY 18,2025 #1241	ug/m3	DL (ug/m3)	NORTH CANISTER VOC FEBRUARY 18,2025 #27655	RDL	ug/m3	DL (ug/m3)	QC Batcl
Volatile Organics	·							•	-
Benzene	ppbv	3.43	11.0	0.319	0.31	0.10	0.990	0.319	9880589
Surrogate Recovery (%)									
Bromochloromethane	%	79	N/A	N/A	80		N/A	N/A	9880589
D5-Chlorobenzene	%	80	N/A	N/A	82		N/A	N/A	9880589
Difluorobenzene	%	78	N/A	N/A	80		N/A	N/A	9880589
QC Batch = Quality Control N/A = Not Applicable						1			
Bureau Veritas ID		AOFP08			AOFP09				
Sampling Date		2025/02/18			2025/02/18				
	UNITS	OLD WEST CANISTER VOC FEBRUARY 18,2025 #23478	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC FEBRUARY 18,2025 #2926	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	0.24	0.765	0.319	0.26	0.10	0.829	0.319	9880589
Surrogate Recovery (%)	-		-			•			
Bromochloromethane	%	76	N/A	N/A	84		N/A	N/A	9880589
D5-Chlorobenzene	%	79	N/A	N/A	83		N/A	N/A	9880589
Difluorobenzene	%	76	N/A	N/A	85		N/A	N/A	9880589
RDL = Reportable Detectior QC Batch = Quality Control N/A = Not Applicable									



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AOFP10				
Sampling Date		2025/02/18				
	UNITS	NEW WEST CANISTER VOC FEBRUARY 18,2025 #276	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	0.15	0.10	0.464	0.319	9880589
Surrogate Recovery (%)						
Bromochloromethane	%	85		N/A	N/A	9880589
D5-Chlorobenzene	%	84		N/A	N/A	9880589
Difluorobenzene	%	85		N/A	N/A	9880589
RDL = Reportable Detection	n Limit					
QC Batch = Quality Control	Batch					
N/A = Not Applicable						

Page 5 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



GENERAL COMMENTS

Results relate only to the items tested.

Page 6 of 8 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9880589	ANE	Spiked Blank	Bromochloromethane	2025/02/24		103	%	60 - 140
			D5-Chlorobenzene	2025/02/24		102	%	60 - 140
			Difluorobenzene	2025/02/24		103	%	60 - 140
			Benzene	2025/02/24		94	%	70 - 130
9880589	ANE	Method Blank	Bromochloromethane	2025/02/24		96	%	60 - 140
			D5-Chlorobenzene	2025/02/24		95	%	60 - 140
			Difluorobenzene	2025/02/24		99	%	60 - 140
			Benzene	2025/02/24	<0.10		ppbv	
9880589	ANE	RPD	Benzene	2025/02/24	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Hulanie Mabr

Melanie Mabini, Team Leader

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Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC. Your C.O.C. #: na

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/03/04 Report #: R8496554 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C517802 Received: 2025/02/20, 10:11

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2025/02/21	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/02/21	BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Page 1 of 7

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



Your P.O. #: 32669 Site Location: RAIN CARBON CANADA INC. Your C.O.C. #: na

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

> Report Date: 2025/03/04 Report #: R8496554 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C517802 Received: 2025/02/20, 10:11

Encryption Key



Bureau Veritas 04 Mar 2025 13:30:11

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

This report has been generated and distributed using a secure automated process.

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> Total Cover Pages : 2 Page 2 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AOEM64					
Sampling Date		2025/02/18					
COC Number		na					
	UNITS	STN29164 18-FEB- 25/29307	QC Batch				
Pressure on Receipt	psig	(-3.3)	9879117				
QC Batch = Quality Control Batch							

Page 3 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AOEM64			AOEM64				
Sampling Date		2025/02/18			2025/02/18				
COC Number		na			na				
	UNITS	STN29164 18-FEB- 25/29307	ug/m3	DL (ug/m3)	STN29164 18-FEB-25/29307 Lab-Dup	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.29	0.912	0.319	0.29	0.10	0.938	0.319	9879114
Surrogate Recovery (%)						-			
Bromochloromethane	%	75	N/A	N/A	73		N/A	N/A	9879114
D5-Chlorobenzene	%	72	N/A	N/A	71		N/A	N/A	9879114
Difluorobenzene	%	75	N/A	N/A	73		N/A	N/A	9879114
RDL = Reportable Detection L QC Batch = Quality Control Ba Lab-Dup = Laboratory Initiate N/A = Not Applicable	atch	ate							



GENERAL COMMENTS

Results relate only to the items tested.

Page 5 of 7 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, LSN 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9879114	ANE	Spiked Blank	Bromochloromethane	2025/02/21		95	%	60 - 140
			D5-Chlorobenzene	2025/02/21		91	%	60 - 140
			Difluorobenzene	2025/02/21		95	%	60 - 140
			Benzene	2025/02/21		94	%	70 - 130
9879114	ANE	Method Blank	Bromochloromethane	2025/02/21		90	%	60 - 140
			D5-Chlorobenzene	2025/02/21		87	%	60 - 140
			Difluorobenzene	2025/02/21		92	%	60 - 140
			Benzene	2025/02/21	<0.10		ppbv	
9879114	ANE	RPD [AOEM64-01]	Benzene	2025/02/21	2.8		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Hulanie Mabri

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

March 2025

APPENDIX E

Field Notes



Station: EastLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025QuarterQ1

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments					
01-Jan-25	AKGO85-01	AKG085-01	31-Dec-24	38	4958.59	38	4981.91	02-Jan-25	325.6	23.32	RH						
01-Jan-25	PUF#1	AKG005-01	16:00	30	4956.59	30	4901.91	15:30	525.0	23.32	КП						
13-Jan-25	AMXL07-01	AMXL07-01	10-Jan-25	38	4981.91	38	5005.27	14-Jan-25	328.9	23.36	RH						
15-5411-25	PUF#1	AWALOT-01	18:22	30	4901.91	30	5005.27	15:50	520.9	20.00							
25-Jan-25	AMXL33-01		AMVI 22 01	AMXI 33-01	AMXI 33-01	AMXL33-01	AMXI 33-01	24-Jan-25	38	5005.27	38	5028.54	27-Jan-25	329.9	23.27	RH	
25-5411-25	PUF#1	AWAL55-01	14:10	30	5005.27	50	5020.54	13:30	529.9	23.21	NI I						
06-Feb-25	ANJO72-01	ANJO72-01	05-Feb-25	38	5028.54	38	5051.76	07-Feb-25	227.0	23.22	RH						
00-Feb-25	PUF#1	ANJO72-01	16:46	30	5020.54	30	5051.70	14:30	327.0	23.22	NI1						
18-Feb-25	ANJP51-01	ANJP51-01	14-Feb-25	30	5051.80	30	5075.16	20-Jan-25	305.9	23.36	RH						
10-1 60-25	PUF#1		17:26	50	5051.00	50	5075.10	10:46	303.9	23.30							



Station: NorthLocation: 725 St

: 725 Strathearne Avenue N, Hamilton

: January 1 to March 31, 2025

Quarter : Q1

Period

	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
01-Jan-25	AKGO86-01	AKGO86-01	31-Dec-24	38	3189.59	38	3213.04	02-Jan-25	298.2	23.45	RH	
01-Jan-25	PUF#2	AKG086-01	16:20	30	3109.39	30	3213.04	15:45	290.2	23.45	КП	
13-Jan-25	AMXL08-01	AMXL08-01	10-Jan-25	38	3213.04	38	3236.42	14-Jan-25	300.1	23.38	RH	
13-Jan-25	PUF#1	AIVIALUO-U I	18:42	30	3213.04	30	0200.42	16:00	300.1	23.30	КП	
25-Jan-25	AMXL34-01	AMXL34-01	24-Jan-25	38	3236.42	38	3259.78	27-Jan-25	302.1	23.36	RH	
25-Jan-25	PUF#2	AIVIAL34-01	14:25	30	3230.42	30	3239.70	13:45	302.1	23.30	КП	
06-Feb-25	ANJO73-01	ANJO73-01	05-Feb-25	38	3259.78	38	3283.22	07-Feb-25	200.0	23.44	RH	
06-Feb-25	PUF#2	ANJU75-01	17:00	30	3239.70	30	3203.22	14:40	300.9	23.44	КП	
18-Feb-25	ANJP52-01	ANJP52-01	14-Feb-25	38	3283.23	38	3306.64	20-Feb-25	306.4	23.41	RH	
10-1'eb-25	PUF#2	ANU 32-01	17:51	50	5205.25	50	5500.04	10:58	500.4	23.41		



Station: Old WestLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025Quarter: Q1

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
04 Jan 25	AKGO87-01	4//007.01	31-Dec-24	38	4052.20	38	4877.14	02-Jan-25	222.2	23.78	RH	
01-Jan-25 PUF#3	AKGO87-01	17:15	38	4853.36	30	4077.14	16:45	332.2	23.78	КП		
13-Jan-25	AMXL09-01	AMXL09-01	10-Jan-25	38	4877.14	38	4900.91	14-Jan-25	334.7	23.77	RH	
10-0411-20	PUF#1		19:25	50		00	4000.01	17:10	004.7	20.11		
25-Jan-25	AMXL35-01	AMXL35-01	24-Jan-25	38 490	4900.91	38	4924.79	27-Jan-25	338.4	23.88	RH	
20-0011-20	PUF#3	AWAL00-01	15:30	50	4000.01	00	4524.75	17:54	000.4	20.00		
06-Feb-25	ANJO74-01	ANJO74-01	05-Feb-25	38	4924.79	38	4948.27	07-Feb-25	330.7	23.48	RH	
00-1 05-20	PUF#3	7110074-01	18:09	50	4024.10	00	4340.27	15:32	000.7	20.40		
18-Feb-25	ANJP53-01	ANJP53-01	18-Feb-25	32	4948 27	32	4972.06	20-Feb-25	323.3	23.79	RH	
18-reb-25	PUF#3	ANJP53-01	10:57	52	4948.27	32	4912.00	12:31			КП	



Station: SouthLocation: 725 Str

: 725 Strathearne Avenue N, Hamilton

: January 1 to March 31, 2025

Quarter : Q1

Period

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
01-Jan-25	AKGO88-01	AKGO88-01	31-Dec-24	38	4734.17	38	4757.13	02-Jan-25	320.9	22.96	RH	
01-Jan-25	PUF#4	AKGU00-01	16:30	30		30	4757.15	16:05		22.90		
13-Jan-25	AMXL10-01	AMXL10-01	10-Jan-25	38	4757.13	38	4780.19	14-Jan-25	325.6	23.06	RH	
15-Jaii-25	PUF#1	AMAL 10-01	19:10	- 50	4757.15	30	4700.19	16:30	525.0	23.00	NH	
25-Jan-25	AMXL36-01	AMXL36-01	24-Jan-25	38	4780.19	32	4803.01	27-Jan-25	312.8	22.82	RH	
25-Jan-25	PUF#4	AIVIAL 30-01	14:45	30	4700.19			14:00	512.0	22.02	КП	
06-Feb-25	ANJO75-01	ANJO75-01	06-Feb-25	38	4803.01	38	4825.97	07-Feb-25	312.2	22.96	RH	
00-Peb-25	PUF#4	ANJO75-01	17:25	50	4003.01	30	4023.97	14:57	512.2	22.90		
18-Feb-25	ANJP54-01	ANJP54-01	14-Feb-25	32	4825.97	32	4849.84	20-Feb-25	318.1	23.87	RH	
10-1'eb-25	PUF#4		18:11	52		32	4849.84	11:22		23.87		



Station : New West

: 725 Strathearne Avenue N, Hamilton

: January 1 to March 31, 2025

Quarter : Q1

Location

Period

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
01-Jan-25	AKGO89-01	AKGO89-01	31-Dec-24	38	4539.27	38	4562.93	02-Jan-25	316.2	23.66	RH	
01-Jan-25	PUF#5	AKG009-01	16:50	30	4559.27	50	4502.95	16:20	510.2	23.00	КП	
13-Jan-00	AMXL11-01	AMXL11-01	10-Jan-25	38	4562.93	38	4586.50	14-Jan-25	318.6	23.57	RH	
13-3aii-00	PUF#1	AIMALTI-01	19:20	50	1002.00	30	4360.30	16:45	510.0	23.57	NH	
25-Jan-25	AMXL37-01	AMXL37-01	24-Jan-25	38	4586.50	38	4610.29	27-Jan-25	324.4	23.79	RH	
25-Jan-25	PUF#5	AWALS7-01	15:00	30	4360.30	50		18:26	524.4	23.19	NI1	
06-Feb-25	ANJO76-01	ANJO76-01	05-Feb-25	38	4610.29	38	4633.71	07-Feb-25	316.6	23.42	RH	
00-Feb-25	PUF#5	ANJO70-01	17:54	30	4010.29	30	4033.71	15:15	510.0	23.42	NH	
19 Eab 25	ANJP55-01		14-Feb-25	32	4633.71	32	4657.26	20-Feb-25	298.6	23.55	RH	
18-Feb-25	PUF#5	ANJP55-01	18:30	52	+033.71	32	4657.26	12:48				



Station: EastLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025Quarter: Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01-Jan-25 14270		31-Dec-24		-30.0		-7.5	02-Jan-25		24.0	RH		
01-0011-20	14270	16:10		-00.0		-1.5	15:40		24.0			
42 100 25	267	10-Jan-25		-30.0		-8.0	14-Jan-25		24.0	RH		
13-Jan-25	207	18:32		-30.0		-0.0	15:50		24.0	КП		
05 100 05	44024	24-Jan-25		20.0		7.0	27-Jan-25		24.0	RH		
25-Jan-25	14934	14:10		-30.0		-7.0	13:30		24.0	КН		
00 E.L. 05	040	05-Feb-25		00.0			07-Feb-25		01.0	DU		
06-Feb-25	249	16:30		-30.0		-8.0	14:35		24.0	RH		
40 E-h 05	4044	14-Feb-25				44.5	20-Feb-25		24.0	DU		
18-Feb-25	1241	17:31		-30.0		-11.5	10:50		24.0	RH		



Station: NorthLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025Quarter: Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
		31-Dec-24					02-Jan-25					
01-Jan-25	14273	15:30		-30.0		-10.0	15:45		24.0	RH		
13-Jan-25	27694	10-Jan-25		-30.0		-10.0	14-Jan-25		24.0	RH		
15-Jaii-25	27094	18:42		-30.0		10.0	16:05		20			
25-Jan-25	23649	24-Jan-25		-30.0		-9.5	27-Jan-25		24.0	RH		
20-0411-20	20040	14:25		-00.0		0.0	13:50					
06-Feb-25	23743	05-Feb-25		-30.0		-30.0	07-Feb-25		24.0	RH		The February 6, 2024, MECP monitoring day VOC monitor summa canister off
00-1 60-23	23743	17:10		-30.0		-30.0	14:43		24.0	INI I		pressure was - 30 inches Hg due to a VOC sampler timer valve failure.
08-Feb-25	23743	07-Feb-25		-30.0		-10.0	11-Feb-25		24.0	RH		Saturday February 8, 2024 resampling day.
00-1 80-20	20140	14:50		-50.0		- 10.0	16:26		24.0			
18-Feb-25	27655	14-Feb-25		-30.0		-10.0	20-Feb-25		24.0	RH		
	27655 -	17:50		-50.0			11:03			RH		



Station: Old WestLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025Quarter: Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01- Jan-25	01-Jan-25 14518	31-Dec-24		-30.0		-16.0	02-Jan-25		24.0	RH		
01-5411-25		15:30		-30.0		-10.0	16:45		24.0	КП		
13-Jan-25	32578	10-Jan-25		-30.0		-14.0	14-Jan-25		24.0	RH		
15-Jaii-25	32376	19:30		-30.0		-14.0	17:05		2.110			
25-Jan-25	18277	24-Jan-25		-30.0		-13.0	27-Jan-25		24.0	RH		
25-Jaii-25	10277	15:32		-30.0		-10.0	17:58		24.0			
06-Feb-25	7805	05-Feb-25		-30.0		-30.0	07-Feb-25		24.0	RH		The February 6, 2024, MECP monitoring day VOC monitor summa canister off
06-Feb-25	7605	18:09		-30.0		-30.0	15:34		24.0	КП		pressure was - 30 inches Hg due to a VOC sampler timer valve failure.
08-Feb-25	7805	07-Feb-25		-30.0		-15.0	11-Feb-25		24.0	RH		Saturday February 8, 2024 resampling day.
00-F6D-25	1005	15:34		-30.0		-15.0	14:43		24.0	КП		
18-Feb-25	02470	18-Feb-25		-30.0		-15.0	20-Feb-25		24.0	RH		
	23478 -	11:05		-30.0			12:34			RH		



Station: SouthLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025Quarter: Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
									-			
01-Jan-25	32591	31-Dec-24		-30.0		-8.0	02-Jan-25		24.0	RH		
01-0011-20	52051	16:40		-50.0		-0.0	16:10		24.0			
13-Jan-25	7849	10-Jan-25		-30.0		-9.5	14-Jan-25		24.0	RH		
13-Jan-25	7045	18:59		-30.0		-9.5	16:20		24.0	БП		
05 100 05	00055	24-Jan-25		-30.0		7.0	27-Jan-25		24.0	RH		
25-Jan-25	23655	14:44		-30.0		-7.0	14:05		24.0	КП		
06-Feb-25	44520	05-Feb-25		-30.0		0.0	07-Feb-25		24.0	RH		
06-FeD-25	14538	17:30		-30.0		-8.0	15:00		24.0	КП		
18 Eab 25	2026	14-Feb-25		-30.0		-9.0	20-Feb-25		24.0	DU		
18-Feb-25	2926	18:12		-30.0			11:22			RH		



Station: New WestLocation: 725 Strathearne Avenue N, HamiltonPeriod: January 1 to March 31, 2025Quarter: Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As	Comments
				-					-	-		
01-Jan-25 18252	18252	31-Dec-25		-30.0		-4.0	02-Jan-25		24.0	RH		
	10232	17:03		-30.0		-4.0	16:30		24.0	П		
13-Jan-25	18273	10-Jan-25		-28.0		-28.0	14-Jan-25		24.0	RH		pressure was - 28 inches Hg due to a
13-Jan-25	10273	19:16		-20.0		-20.0	16:45		24.0			VOC sampler timer valve failure. Resample on January 15, 2025.
2025-01-15	18273	14-Jan-25		-28.0		-4.0	20-Jan-25		24.0	RH		
Resample	10273	16:45				-4.0	11:20					
25-Jan-25	7055	24-Jan-25		-30.0		-4.0	27-Jan-25		24.0	RH		
25-Jan-25	7855	15:08		-30.0		-4.0	17:42		24.0	КП		
06-Feb-25	7050	05-Feb-25		-30.0		-4.0	07-Feb-25		24.0	RH		
06-FeD-25	-25 7853	17:54		-30.0		-4.0	16:25		24.0	КП		
18-Feb-25	070	18-Feb-25		20.0		-6.0	20-Feb-25		24.0	RH		
	276	11:21		-30.0			12:50			KH		