



REPORT

January 2025 Ambient Air Monitoring Report Rain Carbon Canada Inc.

Submitted by:

Rain Carbon Canada Inc.

725 Strathearne Avenue North Hamilton, Ontario L8H 5L3

February 2025

Distribution List

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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 sixth monthly report submitted as part of the Rain Carbon ambient monitoring program and summarizes the measurements taken in January 2025.

The ambient air monitoring measurements for January 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 January 7, 2023.

This report includes the following information for measurements taken in January 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.

Table 1: Rain Carbon Ambient Air Quality Monitoring Stations

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

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 \pm 10% which is equivalent to total volumes between 293.6 m³ and 358.8 m³ over 24 hours.

For the January 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.

However, no benzene sample was taken at the new west VOC monitor on the **Monday January 13, 2025, MECP monitoring event** as the VOC sampler timer internal valve failed to open. The new west VOC monitor was therefore operated again successfully on the **Wednesday January 15, 2025, additional monitoring event** where the summa canister pressure on receipt was - 4.48 inches Hg and inside the MECP 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.

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

Monitoring Event	Benzene	SUMMA Canis				
Date	East	North	Old West	South	New West	HAMN STN 29164
January 1	- 4.88*	- 7.53	- 12.62*	- 5.90	- 5.29	-5.70
January 13	- 4.07*	- 6.52	- 8.96	- 5.90	Sampler failure	- 6.52
January 15 (additional monitoring event)	-	-	-	-	- 4.48*	-
January 25	- 3.46*	- 5.70	-9.57	-4.89*	-4.28*	-6.52

^{*}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

Manitavina		+				
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164
January 1	325.6	298.2	332.2	320.9	316.2	329.2
January 13	328.9	300.1	334.7	325.6	318.6	331.8
January 25	329.9	302.1	338.4	312.8	324.4	326.9

4.0 SUMMARY OF BENZENE MEASUREMENTS

Three sets of benzene measurements were taken in January 2025. The measurements range from 0.397 $\mu g/m^3$ to 28.6 $\mu g/m^3$ benzene, with the highest value being detected at the east monitor during the Monday January 13, 2025, MECP monitoring event. No sample was taken at the new west VOC monitor on the **Monday January 13, 2025, MECP monitoring event** as the VOC sampler timer internal valve failed to open. The new west VOC monitor was operated again successfully on the Wednesday January 15, 2025, additional monitoring event.

All the benzene concentrations measured during the three January 2025 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of $100 \mu g/m^3$ benzene.

Table 4: Summary of January 2025 Benzene Measurements

Manitaria - Farant		Mea				
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164
January 1	3.89*	0.706	0.651*	13.9	0.563	1.58
January 13	28.6*	5.76	0.658	0.739	-	1.40
January 15(additional monitoring event)	-	-	-	-	0.830*	-
January 25	19.3*	8.27	1.55	0.759*	1.46*	1.01

^{*}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 January 2025 B(a)P Measurements.

Monitorina		Me				
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164
January 1	< 0.00031	< 0.00034	< 0.00030	0.00050	< 0.00032	0.00043
January 13	0.00098	0.00294	< 0.00030	< 0.00031	< 0.00031	< 0.00030
January 25	0.00049	0.00113	< 0.00030	< 0.00032	< 0.00031	< 0.00031

Three sets of B(a)P measurements were taken in January 2025. The B(a)P measurements ranged from < $0.00030 \,\mu\text{g/m}^3$ to $0.00294 \,\mu\text{g/m}^3$ B(a)P, with the highest value being detected at the **north monitor** during the **January 13, 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.

All the B(a)P concentrations measured during the three January 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 three January 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.

All the benzene concentrations measured during the three January 2025 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of 100 $\mu g/m^3$ benzene.

However, no benzene sample was taken at the new west VOC monitor on the **Monday January 13, 2025, MECP monitoring event** as the VOC sampler timer internal valve failed to open. The new west VOC monitor was therefore operated again successfully on the **Wednesday January 15, 2025, additional monitoring event** where the summa canister pressure on receipt was - 4.48 inches Hg and inside the MECP acceptable pressure of receipt of between -1.6 to -13.4 inches Hg.

Signature Page

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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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725 Strathearne Ave. N Hamilton, ON L8H 5L3

September 2020

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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.

Table 2.2: Monitoring Station Locations.

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.
East Monitor	This location is at the east fence line and east of Tank 36 with the inlet at a distance equal or greater than 2 m away from a structure and at an elevation of between 3 m and 15 m above grade.
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.

Table 2.3: Monitor Locations Comparison to MECP Siting Criteria.

Contaminant Critorio				N	Ionitor Locatio	n
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 Inlet 3 to 1 m above grade 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

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.

Table 2.4: Meteorological Station Information

HAMN Station	29567	29180	29547	29102	29167	29171	29565
Wind Speed and Direction	✓	✓	1	✓	✓	✓	√
B(a)P Concentration	✓	✓	✓	_		_	
Benzene Concentration	✓	✓	_	✓	_	_	_
Approximate Distance from Facility [km]	3.9	2.4	1.0	1.5	1.7	2.3	1.3
Orientation from Facility	W	wsw	N	NNE	NNW	WNW	S

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.

Table 2.5: Analytical Methodology

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

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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Robin S. Hart P.Eng.

Environmental Engineer

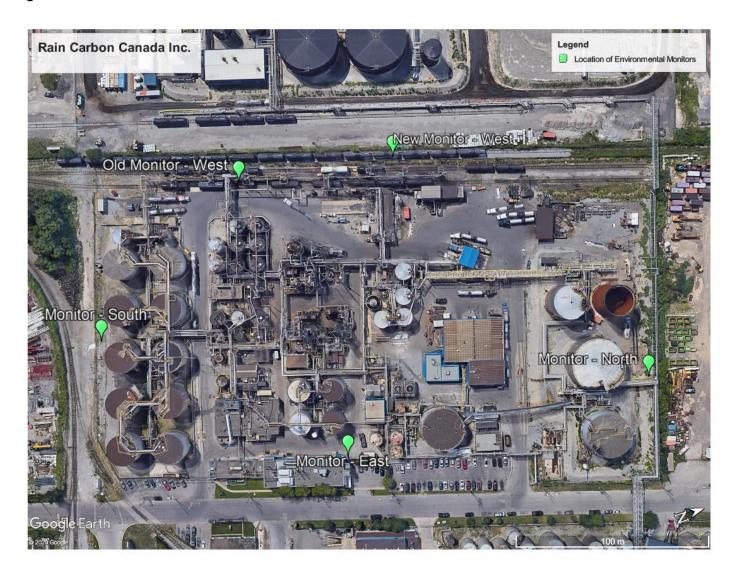
Rain Carbon Canada Inc.

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.





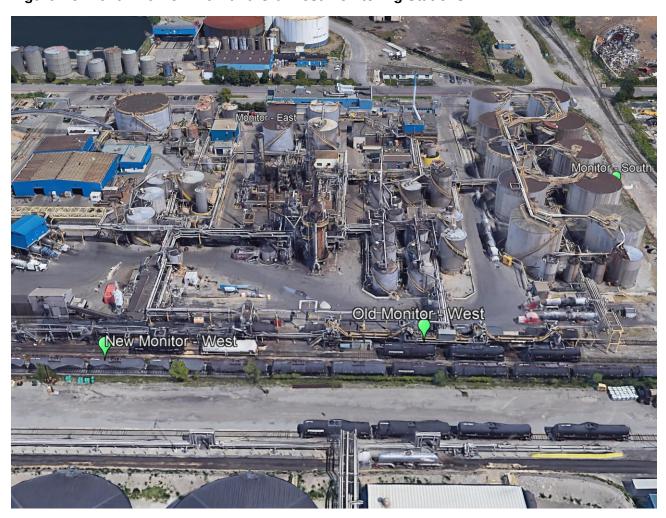
North monitor

Figure A3: Aerial View 1 – Existing South Monitoring Station

South

Google Earth

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





New West Monitor

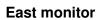




Figure A4: Aerial View 4 – East Monitoring Station

APPENDIX B

Laboratory Analysis

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period : January 2025

Sampling Methods : CARB429(ARBM1,M2) mod

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

Parameter				
Units				
Analytical RDL				
Annual Site-Specific Standard				

ВаР
ng/m³
0.315
0.8

Sample Date
January 1, 2025
January 13, 2025
January 25, 2025

Location					
East	North	Old West	South	New West	STN29164
0.155	0.17	0.15	0.50	0.16	0.43*
0.98	2.94	0.15	0.155	0.155	0.15*
0.49	1.13	0.15	0.16	0.155	0.155*

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

0.54	1.41	0.15	0.27	0.157	0.245*
0.98	2.94	0.15	0.50	0.16	0.43*
0.155	0.17	0.15	0.155	0.155	0.15*
1	1	0	0	0	0*
3	3	3	3	3	3*
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 : January 2025 **Sampling Methods** : GC/MS (TO15)

Sampling Times : 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
January 1, 2025
January 13, 2025
January 15, 2025 (additional new west monitoring event)
January 25, 2025

Location					
East	North	Old West	South	New West	STN29164
3.89	0.706	0.651	13.9	0.563	1.58*
28.6	5.76	0.658	0.739	Sampler failure	1.40*
1	-	1	-	0.830	-
19.3	8.27	1.55	0.759	1.46	1.01*

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

17.26	4.91	0.95	5.13	0.95	1.33*	
28.6	8.27	1.55	13.9	1.46	1.58*	
3.89	0.706	0.651	0.739	0.563	1.01*	
2	0	0	1	0	0*	
3	3	3	3	3	3*	
100	100	100	100	100	100*	

^{*}These results alone follow Rotek reporting protocol

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

Comments:			

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period : January 2025

Sampling Method : CARB429(ARBM1,M2) mod

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

Parameter	ВаР
Units	ng/m³
Analytical RDL	0.315
Annual Site Specific Standard	0.8

Sample Date			Loca	ation		
Sample Date	East	North	Old West	South	New West	STN29164
01-Jan-25						0.43
13-Jan-25						0.15
25-Jan-25						0.15
Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.24
Monthly Max	0.00	0.00	0.00	0.00	0.00	0.43
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	3
% Valid Data	100	100	100	100	100	100

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

Con	nments		

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period : January 2025 **Sampling Methods** : GC/MS (TO15)

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

Parameter	Benzene
Units	ug/m³
Analytical RDL	0.319
Site Specific Standard	12.7

Sample Date			Loca	ation		
Sample Date	East	North	Old West	South	New West	STN29164
01-Jan-25						1.58
13-Jan-25						1.40
25-Jan-25						1.01
Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.33
Monthly Max	0.00	0.00	0.00	0.00	0.00	1.58
Monthly Min	0.00	0.00	0.00	0.00	0.00	1.01
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	3
% Valid Data	100	100	100	100	100	100

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

Cor	mments		

APPENDIX C

Chain of Custody Forms



												CAM	CD-0130)2/3
DU REAU VERITAS	6740 Camp Mississaug www.bvlab	ga Ontario ,L5	N 2L8	Phone:	1-800-668-0 (905) 817-5 (905) 817-5	700	CHAIN OF CUSTODY FORM - AIR			ANALYS	SIS REQUES	TED	Page _	of
CLIENT	Company Name: Project Manager:	Rain Carbon Robin Hart			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		PAHs on PUF as per ERP 7013		ε.					
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	Phone:	1-647-281-80	94	Fax:	1			1		NC	ONT-202	5-01-2	77	
	Sampled by:	Robin Hart						İ		Ŋ				
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North Monitor PAH Jan			298.20		1-Jan-25	24 hours	x							
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Unless otherwise agreed to a and-conditions	in writing, work submitted o	on this Chain of C	Custody is subject	to Bureau Ver	itas Laboratorie	s standard Ter	ms and Conditions. Signing of this Chain of Custody docume	ent is acknow	edgment and a	cceptance of	our terms availa	ble at http:	//www.bvla	bs.com/terms-
	8						15:00							

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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	01-Jan-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 Cartridge #	Maxxam Filter ID #	Install Date	MAGN On inH2O	Removal Date Removal Time	MAGN Off inH2O	Total Volume	Submission Date
CTN00464	04 1 2025	PUF #1	AAADTOO OA	31-Dec-24	20	02-Jan-25	20	200.0	00 1 05
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BUREAU VERITAS		Mississauga C	Ontario ,L5N	2L8	Phone:	(905) 817-5	5700					,									_
VERITAS	INVOICE INFORMATI	www.bvlabs.co		ORTI	Fax: NFORMAT	(905) 817-5	5777	S 1800	123				_	I		ANAL	YSIS R	EQUES	STED		
Company Na	me: Rotek Envir	onmental Inc Co	mpany Nar	ne:	Rotek Env	ironmental Ir					AL		7015A	E	16)						
Contact Name	e: Paul Daszko	Pro	oject Mana	ger:	Paul Dasz	ko	f Hg)	(6)			USTRI		ence 1	ocarbo	C10-C	ecify	_				
Address:	15 Keefer Court Hamil	ton Ad	dress 15 K	eefer (Court Hami	ton	START VACUUM (inches of Hg)	es of Hg)		R	AMBIENT/COMMERCIAL/INDUSTRIAL		FULL LIST OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	EPA TO13				
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-mail:	poore@rotekinc.com	E-r	mail: jenni	fer.da	vies@rotek	nc.com	החתש	JM (R.	DOG	MMO	GAS	JF V	tic/Al	5	C's	IF by	ANALYZE			
h:	905 573 9533	Ph	-	573 95			VAC	VACUUM	APO	AL L	VT/C	AB	IST (oma	1 (C	OA P	n P.	AN			
ampled by:	Robin Hart			31000			ART		SOIL VAPOUR	AMBIENT/INDOOR AIR	IBIE	SUB-SLAB GAS	ורר	EX/Ar	EX/F	lecte	PAHs on PUF by	NOT			100
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ush 2 Busine	ss day *	PO #: 326							ON 4												
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in olynature:	Doug Cunningham		Recei	ved by:	MAIK	W						rieas	e copy	result	s to yo	rk.znar	ng@rai	ncarbo	n.com,		

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms -11-21-2 on no por

daszko@rotekinc.com

robin.hart@raincarbon.com, jennifer.davies@rotekinc.com,

2025/01/03, 09:56

Date/Time:

January 3 2025

available at http://www.bvlabs.com/terms-and-conditions

Date/Time:

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BU REAU VERITAS	6740 Campobello Mississauga Onta www.bylabs.com		Phone:	1-800-668- (905) 817-5 (905) 817-5	5700	CHAIN OF CUSTODY FORI	M - AIR	ł				ANALY	/SIS RE	QUEST		Page _	of
MACHINELE III	Company Name: Rain C	arbon Canada Inc.	T dx.	(000) 017-0	5111	PAHs on PUF as per ERP 7013						ANAL	OIO KL	QULUI			
CLIENT	Project Manager: Robin																
IIII OKIIIATION		art@raincarbon.com				1 1											
	Address: 725Str	athearne Avenue				1											
SECTION	Hamilto	on, ON]	- 1										
	Phone: 1-647-	281-8094	Fax:														
	Sampled by: Robin	Hart															
Field Sample ID		Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time												
East Monitor PAH Januar	v 13 2025 AMYL 07-01	328.90	Flow Rate	13-Jan-25	24 hours	X V	-		_	_			_				
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Old West Monitor PAH Ja				13-Jan-25		Ĉ.					_		_				
South Monitor PAH Janua		325,60		13-Jan-25		Ĉ											
New West Monitor PAH J				13-Jan-25		Ŷ											
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Date/Time: 15-	Name: Rain C. PO #: 45006 BV Qu BV Co Hart Inmental Engineer Jan-25 12:00 PM	arbon Canada Inc. 10028 ote #: ntact: Cristina Baccl Received by: Affiliation: Date/Time:	nus	Regulation	EDD	SAN / SAN / San Signing of this Chain of C			lf submi jar open PROJE	tting du ing in c CT SPE	istfall s cm. ECIFIC	COMN	please	indicate	al Hygien the diam	eter of	he

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CAM FCD-01302 /3 6740 Campobello Rd Chain of Custody Form - PUF / PAH Toll Free: 1-800-668-0639 Page _1__ of __2_ Mississauga Ontario ,L5N 2L8 Phone: (905) 817-5700 BUREAU www.bvlabs.com Fax: (905) 817-5777 **ANALYSIS REQUESTED** INVOICE INFORMATION REPORT INFORMATION FULL LIST OF VOCs (reference TO15A) Company Name: Rotek Environmental Inc Company Name: Rotek Environmental Ir BTEX/F1 (C6-C10) and F2 (C10-C16) **AMBIENT/COMMERCIAL/INDUSTRIAL** BTEX/Aromatic/Aliphatic Hydrocarbon Fractions Selected VOC's - please specify START VACUUM (inches of Hg) Contact Name: Paul Daszko Project Manager: Paul Daszko END VACUUM (inches of Hg) EPA TO13 15 Keefer Court Hamilton Address 15 Keefer Court Hamilton USED Address: AMBIENT/INDOOR AIR NOT ANALYZE ON L8E 4V4 ON L8E 4V4 CANISTERS NOT PAHs on PUF by GAS poore@rotekinc.com E-mail: jennifer.davies@rotekinc.com E-mail: SUB-SLAB Ph: 905 573 9533 905 573 9533 SOIL Sampled by: Robin Hart 00 Flow Field Sample ID BV PUF ID Retrieval Regulator # Serial # Date PUF #1 STN29164 13-Jan-25 AMBW86-01 X 14-Jan-25 SIL ------NONT-2025-01-2209 ------PROJECT INFORMATION **TAT Requirement** REPORTING REQUIREMENTS Notes 1) please indicate on chain of custody if your samples are 1 STD 10 Business day Project #: EDD soil vapour or ambient air Rush 5 Business day * Name: Rain Carbon Canada Inc Regulations ON 153 2) please list all canisters on the chain of custody even if unused PO #: 32669 Rush 2 Business day * ON 419 Rush Other * Bureau Veritas Quote #: BC CSR PROJECT SPECIFIC COMMENTS Bureau Veritas Contac Cristina Bacchus Other * need approval from Bureau Veritas Task Order/Line Item Analyse for BaP only in ng/m3. Client Signature: Doug Cunningham Received by: Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, January 16 2025 Date/Time: Date/Time: daszko@rotekinc.com Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions



15 Keefer Court Hamilton, Ontario L8E 4V4 Phone 906 573 9533 Fax 905 578 5167

PAH Sample Submission Sheet

Sample Date	13-Jan-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
		Cartridge #	Filter ID #	Install Time	InH2O	Removal Time	inH2O	m3	Date
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BUREAU VERITAS	www.bvlat				(905) 817-5					ANAL	YSIS RE	QUESTE	D		
CLIENT	Company Name:	Rain Carbon	Canada Inc.				PAHs on PUF as per ERP 7013								
INFORMATION	Project Manager:	Robin Hart													
		robin.hart@ra	aincarbon.com												
Manager at Manager	Address:	725Strathear													
SECTION		Hamilton, ON	١												
	Phone:	1-647-281-80)94	Fax:											
	Sampled by:	Robin Hart													
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Field Sample ID			Total Volume Sampled	Flow Rate	Collection Date	Collection Time	_x					' 1	I.	1	
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	Jan-25 1:00 PM		Date/Time:		11219	111-t	Sualling								
Unless otherwise agreed to in w and-conditions	riting, work submitted o	on this Chain of Cu	ustody is subject t	o Bureau Veril	as Laboratories	standard Term	s and Conditions. Signing of this Chain of Custody docum	ment is acknow	yledgment an	d acceptance o	of our terms	s available a	at http://w	ww.bvlabs.	.com/terms-
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BUREAU	6740 Campobello Mississauga Ont www.bylabs.com	ario ,L5N 2L8	Phone:	1-800-668- (905) 817-5 (905) 817-5	5700	CHAIN OF CUSTODY FOR	RM - AI	R				ANALV	reie de	QUESTI		Page	of	
VERITAS	<u>www.bviabs.com</u>		гах.	(905) 617-3	0111	PAHs on PUF as per ERP 7013		1			1	ANALI	SIS RE	QUESTI	שב			—
CLIENT	Company Name: Rain	Carbon Canada Inc.				- Ans on For as per LIVE 1013												
NFORMATION	Project Manager: Robin																	
		hart@raincarbon.con	<u>1</u>															
SECTION		trathearne Avenue Iton, ON																
	Phone: 1-647	-281-8094	Fax:															
	Sampled by: Robin	Hart		_														
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6740 Campobello Rd Mississauga Ontario 15N 218

Toll Free: 1-800-668-0639

Chain of Custody Form - PUF / PAH

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CAM FCD-01302 /3

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Company Nan	ne: Rotek Enviro	nmental Inc	Compar	y Name:	Rotek Env	ironmental Ir					SIAL		T015	noq	C16)	,							
Contact Name	e: Paul Daszko		Project	Manager:	Paul Daszi	ко	START VACUUM (inches of Hg)	Hg)			AMBIENT/COMMERCIAL/INDUSTRIAL		FULL LIST OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	13						
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E-mail:	poore@rotekinc.com		E-mail:	jennifer.dav	ries@roteki	nc.com	CU	JUM	OUR	INDC	COM	3 GA	P	atic/	0-90	,00,	J.	NAL			SS		
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Date/Time:	January 29 2025	10:0		Date/Time:		01/20	1) `. (dasz	ko@ro	tekinc.	com								
	agreed to in writing, work subm		ain of Custo	dy is subject to	Bureau Verita	s Laboratories'	standard	l Terms a	and Con	ditions.	Signin	g of this	s Chain d	of Custody	/ docume	ent is acki	nowledgn	ent and a	acceptanc	e of our t	terms		

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15 Keefer Cour Hamilton, Ontario L8E 4V4 Phone 905 573 9533 Fax 905 578 5167

PAH Sample Submission Sheet

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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 Cartridge #	Maxxam Filter ID #	Install Date	MAGN On	Removal Date	MAGN Off	Total Volume	Submission Date
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E-mail:	robin.hart@raincarbon.	com E-mail:	robin.hart@	raincarbor	n.com	ACUL	UUM	VAPOUR	AMBIENT/INDOOR AIR	/COM	SUB-SLAB GAS	T OF	natic/	0-90)	, Noc.					CANISTERS NOT USED
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6740 Campobello Rd Toll Free: 1-800-668-0639 Chain of Custody Form - Summa™ Canister

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E-mail:	robin.hart@rainca	bon.com	E-mail:	robin.hart@	<u>graincarbor</u>	n.com	400		9	N N	lo So	B G/	0	natic	-90 Ce-	9				3S N
Ph:	1-647-281-8094		Ph:	1-647-281-	8094) <u> </u>	/AC	AP	EN	I N	SLA	SIT	Aron	/F1 (ted				STEI
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pm																				



15 Keefer Court Hamilton, Ontario L8E 4V4 Phone 905 573 9533 Fax 905 578 5167

VOC Canister Sample Submission Sheet

Sample Date	01-Jan-25
Project Name	Rain Carbon Canada Inc.
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
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Comment 1 :

Comment 2 :

Cristina (Maria) Bacchus

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dy Form - Summa™ Canister

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Company Name Contact Name Address: E-mail: Ph:		nmental Inc Company Project Ma	Name: nager: 15 Keefer (Rotek Envi Paul Daszi Court Hamilt 4 vies@rotek	on	START VACUUM (inches of Hg)	VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Do Not Analyze				CANISTERS NOT USED
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	al from Bureau Veritas Doug Cunningham	Task Order/Line Item	Received by	: DAR	40						Plea	ase co	or Benze by resul	ts to y	ork.zha	ing@ra				
Date/Time:	January 3 2025		Date/Time:		101103,	091					das	zko@r	@rainc	com	53.5					
Unless otherwise a http://www.bvlabs.	greed to in writing, work submit com/terms-and-conditions	tted on this Chain of Custody i	s subject to Bur	eau Veritas La	boratories' standard Term	ns and Co	nditions.	Signing	g of this	Chain	of Cust	ody docu	ment is a	cknowled	igment ar	d accept	ance of ou	r terms av	railable at	1

	<u> </u>	Julian	Tong			-											CAM F	CD-013	102 /3	
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E-mail:	robin.hart@raincarbon	n.com E-mail:	robin.hart@	@raincarbo	n.com	75	5	12	N	NO.	8	P	atic/	99	ပ်			. 1		ž
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15 Keefer Court Hamilton, Ontario L8E 4V4 Phone 905 573 9533 Fax 905 578 5167

VOC Canister Sample Submission Sheet

Sample Date	13-Jan-25
Project Name	Rain Carbon Canada Inc.
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
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Comment 1 :

Comment 2:

16-Jan-25 10:36



Cristina (Maria) Bacchus

CAM FCD-01302 /3

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Contact Name	Paul Daszko	Project Ma	nager:	Paul Daszk	10	of Hg	(BH Jo			DUST		rence	droca	(C10	pecif				
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E-mail:	poore@rotekinc.com	E-mail:	jennifer.da	vies@roteki	inc.com	CUU	UM	JUR.	NDO	SOMIN	GAS	P)	atic/A	26-C	s,00	Not			SNO
Ph:	905 573 9533	Ph:	905 573 95	33		TVA	MCL	VAPOUR	ENT	ENTK	SLAB	LIST	Arom	F1 (C	V bea	o.			STER
Sampled by:	Robin Hart					START VACUUM (inches of Hg)	END VACUUM (inches	SOIL	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other			CANISTERS NOT USED
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Unless otherwise a	agreed to in writing, work subn	nitted on this Chain of Custody i	s subject to Bur	reau Veritas Lai	boratories' standard Term	ns and Co	nditions	Signin	g of this	Chain					dgment a	nd accepta	ance of our t	erms availabl	le at

Julian Tong

(1) | 112 | 1 DE CAL DID | DISTRICE : 314

CAM FCD-01302/3

C506927 thain of Custody Form - Summa™ Canister 6740 Campobello Rc Page Mississauga Ontario www.bvlabs.com **ANALYSIS REQUESTED** AIR-001 INVOICE INFORMATION FULL LIST OF VOCs (reference TO15A BTEX/F1 (C6-C10) and F2 (C10-C16) Rain Carbon Canada Ind Company Name: Rain Carbon Canada **AMBIENT/COMMERCIAL/INDUSTRIAL** Company Name: BTEX/Aromatic/Aliphatic Hydrocarbon Selected VOC's - please specify START VACUUM (inches of Hg) END VACUUM (inches of Hg) Contact Name: Robin Hart Project Manager: Robin Hart CANISTERS NOT USED 725Strathearne Avenue Address: 725Strathearne Avenue AMBIENT/INDOOR AIR Address: Hamilton, ON Hamilton, ON SUB-SLAB GAS SOIL VAPOUR robin.hart@raincarbon.com E-mail: robin.hart@raincarbon.com E-mail: Ph: 1-647-281-8094 Ph: 1-647-281-8094 Other Sampled by: Robin Hart Flow Field Sample ID Canister Regulator Collection Serial # Serial # Date 18273 New West Canister VOC January 14, 2025 14-Jan-25 TAT Requirement PROJECT INFORMATION REPORTING REQUIREMENTS Notes 1) please indicate on chain of custody if your samples are 7 Project #: Rain Carbon Canada Inc. STD 10 Business day EDD soil vapour or ambient air Name: Robin Hart Rush 5 Business day * Regulations ON 153 2) please list all canisters on the chain of custody even if unused PO#: 4500610028 Rush 2 Business day * ON 419 Rush Other * BC CSR PROJECT SPECIFIC COMMENTS Bureau Veritas Quote # Cristina Bacchus Bureau Veritas Contact: Other * need approval from Bureau Veritas Task Order/Line Item Client Signature: Robin Hart Environmental Engineer Received by: Date/Time: 2:00 PM Date/Time: PLEASE RETURN ALL UNUSED EQUIPMENT 20-Jan-25

Received by:

Date/Time:

Client Signature: Robin Hart Environmental Engineer

28-Jan-25

1:00 PM

Date/Time:

Julian Tong CAM FCD-01302 /3 6740 Camp Chain of Custody Form - Summa™ Canister Page C509339 Mississaug 0 www.bvlabs ANALYSIS REQUESTED AIR-001 CIV INVOICE INFORMATION FULL LIST OF VOCs (reference TO15A BTEX/F1 (C6-C10) and F2 (C10-C16) Rain Carbon Canada Ind Company Name: **AMBIENT/COMMERCIAL/INDUSTRIAL** Company Name: Rain Carbon Canada BTEX/Aromatic/Aliphatic Hydrocarbon Fractions START VACUUM (inches of Hg) END VACUUM (inches of Hg) Contact Name: Robin Hart **Project Manager:** Robin Hart Selected VOC's - please AMBIENT/INDOOR AIR Address: 725Strathearne Avenue Address: 725Strathearne Avenue Hamilton, ON Hamilton, ON GAS SOIL VAPOUR E-mail: robin.hart@raincarbon.com E-mail: robin.hart@raincarbon.com SUB-SLAB Ph: 1-647-281-8094 1-647-281-8094 Other Sampled by: Robin Hart Flow Canister Collection Field Sample ID Regulator Serial # Serial # Date East Canister VOC January 25, 2025 14934 25-Jan-25 North Canister VOC January 25, 2025 23649 25-Jan-25 Old West Canister VOC January 25, 2025 18277 25-Jan-25 South Canister VOC January 13, 2025 23655 25-Jan-25 New West Canister VOC January 25, 2025 7855 25-Jan-25 **TAT Requirement** PROJECT INFORMATION REPORTING REQUIREMENTS 1) please indicate on chain of custody if your samples are 4 STD 10 Business day Project #: Rain Carbon Canada Inc. EDD soil vapour or ambient air ON 153 Rush 5 Business day * Name: Robin Hart 2) please list all canisters on the chain of custody even if unused Regulations Rush 2 Business day * PO #: 4500610028 ON 419 Rush Other * BC CSR PROJECT SPECIFIC COMMENTS Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Other * need approval from Bureau Veritas Task Order/Line Item Parseer pair Provid

CANISTERS NOT USED

PLEASE RETURN ALL UNUSED EQUIPMENT

CAM	FCD.	-0130	2 /3

B U R E A U

6740 Campobello Rd Mississauga Ontario ,L5N 2L8 Toll Free: 1-800-668-0639 Phone: (905) 817-5700 Chain of Custody Form - Summa™ Canister

Page 1

www.bvlabs.com Fax: (905) 817-5777 ANALYSIS REQUESTED REPORT INFORMATION **INVOICE INFORMATION** FULL LIST OF VOCs (reference TO15A BTEX/F1 (C6-C10) and F2 (C10-C16) AMBIENT/COMMERCIAL/INDUSTRIAL BTEX/Aromatic/Aliphatic Hydrocarbon Fractions Company Name: Rain Carbon Canada Ind Company Name: Rain Carbon Canada Selected VOC's - please specify START VACUUM (inches of Hg) of Hg) Project Manager: Contact Name: Robin Hart Robin Hart NOT USED AMBIENT/INDOOR AIR Address: 725Strathearne Avenue Address: 725Strathearne Avenue Hamilton, ON Hamilton, ON **SUB-SLAB GAS** SOIL VAPOUR E-mail: robin.hart@raincarbon.com E-mail: robin.hart@raincarbon.com CANISTERS Ph: 1-647-281-8094 Ph: 1-647-281-8094 Other Sampled by: Robin Hart Flow Collection Canister Field Sample ID Regulator Serial # Serial # Date East Canister VOC January 25, 2025 14934 25-Jan-25 North Canister VOC January 25, 2025 23649 25-Jan-25 Old West Canister VOC January 25, 2025 18277 25-Jan-25 23655 South Canister VOC January 25, 2025 25-Jan-25 New West Canister VOC January 25, 2025 7855 25-Jan-25 **TAT Requirement** PROJECT INFORMATION REPORTING REQUIREMENTS **Notes** 1) please indicate on chain of custody if your samples are \checkmark STD 10 Business day Project #: Rain Carbon Canada Inc. **EDD** soil vapour or ambient air Rush 5 Business day * Name: Robin Hart ON 153 2) please list all canisters on the chain of custody even if unused Regulations Rush 2 Business day * PO #: 4500610028 ON 419 Rush Other * BC CSR PROJECT SPECIFIC COMMENTS Bureau Veritas Quote #: Cristina Bacchus Bureau Veritas Contact: Other * need approval from Bureau Veritas Task Order/Line Item Client Signature: Robin Hart Environmental Engineer Received by: PLEASE RETURN ALL UNUSED EQUIPMENT Date/Time: 1:00 PM Date/Time: 28-Jan-25



15 Keefer Court Hamilton, Ontario L8E 4V4 Phone 905 573 9533 Fax 905 578 5167

VOC Canister Sample Submission Sheet

Sample Date	25-Jan-25
Project Name	Rain Carbon Canada Inc.
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
			dd/mm/yy	dd/mm/yy	EST	inHg	EST	EST	Hours	inHg	dd/mm/yy
STN29164	17178	25-Jan-25	23-Jan-25	12:30	-30.0	00:01	23:59	24.0	-8.5	27-Jan-25	14:55

Comment 1:

Comment 2:

29-Jan-25 10:07

Cristina (Maria) Bacchus

C509540

Chain of Custody Form - Summa™ Canister -0639

Page _2_ of __2_

CAM FCD-01302 /3

Mis: 5700 5777 ANALYSIS REQUESTED INVOICE INFORMATION AIR-001 FULL LIST OF VOCs (reference TO15A) Rotek Environmental Inc Company Name: Rotek Environmental Inc. Company Name: BTEX/F1 (C6-C10) and F2 (C10-C16) AMBIENT/COMMERCIAL/INDUSTRIAL BTEX/Aromatic/Aliphatic Hydrocarbon of Hg) Selected VOC's - please specify Paul Daszko of Hg) Paul Daszko Project Manager: Contact Name: **VACUUM** (inches CANISTERS NOT USED Address: 15 Keefer Court Hamilton Address: 15 Keefer Court Hamilton AMBIENT/INDOOR AIR Other - Do Not Analyze END VACUUM (inches ON L8E 4V4 ON L8E 4V4 SUB-SLAB GAS VAPOUR E-mail: jennifer.davies@rotekinc.com E-mail: poore@rotekinc.com Ph: 905 573 9533 Ph: 905 573 9533 START SOIL Sampled by: Robin Hart Flow Regulator Field Sample ID Canister Serial # Serial # Retrieval Date STN29164 25-Jan-25 17178 X ---27-Jan-25 ----PROJECT INFORMATION REPORTING REQUIREMENTS TAT Requirement Notes 1) please indicate on chain of custody if your samples are V STD 10 Business day EDD soil vapour or ambient air Project #: Name: Rain Carbon Canada Inc Regulations ON 153 4 Rush 5 Business day * 2) please list all canisters on the chain of custody even if unused Rush 2 Business day * PO #: 32669 ON 419 BC CSR PROJECT SPECIFIC COMMENTS Rush Other * Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Other Please issue Summa canister pressure upon receipt. * need approval from Bureau Veritas Task Order/Line Item Analyse for Benzene only in ug/m3. Received by: SUCIAL SALVANI Client Signature: Doug Cunningham Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, 10:07 7025 Date/Time: January 29 2025 Date/Time: daszko@rotekinc.com Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions

APPENDIX D

Certificates of Analysis



Your P.O. #: 4500610028

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: 2025/01/17

Report #: R8471896 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500610 Received: 2025/01/03, 15:00

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	5	2025/01/06	2025/01/16	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/01/06	2025/01/16	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/01/06	i	

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.



Your P.O. #: 4500610028

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: 2025/01/17

Report #: R8471896

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500610 Received: 2025/01/03, 15:00

Encryption Key

Julian Tong Project Manager Assistant 17 Jan 2025 14:18:06

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.



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AMYP14	AMYP15	AMYP16	AMYP17	
Sampling Date		2025/01/01	2025/01/01	2025/01/01	2025/01/01	
COC Number		N/A	N/A	N/A	N/A	
	UNITS	EAST MONITOR PAH JANUARY 1, 2025 AKGO85-01	NORTH MONITOR PAH JANUARY 1,2025 AKGO 86-01	OLD WEST MONITOR PAH JANUARY 1,2025 AKGO87-01	SOUTH MONITOR PAH JANUARY 1,2025 AKGO88-01	QC Batch
Volume	m3	325.6	298.2	332.2	320.9	ONSITE
QC Batch = Quality Cont	rol Batch				•	•

Bureau Veritas ID		AMYP18	
Sampling Date		2025/01/01	
COC Number		N/A	
	UNITS	NEW WEST MONITOR PAH JANUARY 1, 2025 AKGO89-01	QC Batch
Volume	m3	316.2	ONSITE
QC Batch = Quality Control	Batch		-



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

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

Bureau Veritas ID		AMYP14	AMYP15	AMYP16	AMYP17		
Sampling Date		2025/01/01	2025/01/01	2025/01/01	2025/01/01		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH JANUARY 1, 2025 AKGO85-01	NORTH MONITOR PAH JANUARY 1,2025 AKGO 86-01	OLD WEST MONITOR PAH JANUARY 1,2025 AKGO87-01	SOUTH MONITOR PAH JANUARY 1,2025 AKGO88-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	<0.10	<0.10	<0.10	0.16	0.10	9854983
Surrogate Recovery (%)						•	•
D10-2-Methylnaphthalene	%	70	69	64	66		9854983
D10-Fluoranthene	%	72	75	74	74		9854983
D10-Fluorene (FS)	%	76	70	68	70		9854983
D10-Phenanthrene	%	73	73	71	73		9854983
D12-Benzo(a)anthracene	%	79	73	73	74		9854983
D12-Benzo(a)pyrene	%	72	68	67	67		9854983
D12-Benzo(b)fluoranthene	%	81	76	79	69		9854983
D12-Benzo(ghi)perylene	%	74	70	71	72		9854983
D12-Benzo(k)fluoranthene	%	72	68	66	66		9854983
D12-Chrysene	%	77	75	73	73		9854983
D12-Indeno(1,2,3-cd)pyrene	%	74	70	69	72		9854983
D12-Perylene	%	75	70	71	70		9854983
D14-Dibenzo(a,h)anthracene	%	75	69	71	72		9854983
D14-Terphenyl (FS)	%	74	74	74	76		9854983
D8-Acenaphthylene	%	69	69	65	67		9854983
D8-Naphthalene	%	69	65	58	62		9854983
RDL = Reportable Detection Li	mit						

QC Batch = Quality Control Batch



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

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

Bureau Veritas ID		AMYP18		
Sampling Date		2025/01/01		
COC Number		N/A		
	UNITS	NEW WEST MONITOR PAH JANUARY 1, 2025 AKGO89-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	<0.10	0.10	9854983
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	65		9854983
D10-Fluoranthene	%	75		9854983
D10-Fluorene (FS)	%	70		9854983
D10-Phenanthrene	%	74		9854983
D12-Benzo(a)anthracene	%	70		9854983
D12-Benzo(a)pyrene	%	64		9854983
D12-Benzo(b)fluoranthene	%	69		9854983
D12-Benzo(ghi)perylene	%	71		9854983
D12-Benzo(k)fluoranthene	%	63		9854983
D12-Chrysene	%	76		9854983
D12-Indeno(1,2,3-cd)pyrene	%	71		9854983
D12-Perylene	%	68		9854983
D14-Dibenzo(a,h)anthracene	%	71		9854983
D14-Terphenyl (FS)	%	76		9854983
D8-Acenaphthylene	%	67		9854983
D8-Naphthalene	%	60		9854983
RDL = Reportable Detection Liu QC Batch = Quality Control Bat				



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AMYP14		AMYP15		AMYP16		
Sampling Date		2025/01/01		2025/01/01		2025/01/01		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH JANUARY 1, 2025 AKGO85-01	RDL	NORTH MONITOR PAH JANUARY 1,2025 AKGO 86-01	RDL	OLD WEST MONITOR PAH JANUARY 1,2025 AKGO87-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	<0.00031	0.00031	<0.00034	0.00034	<0.00030	0.00030	9854864
RDL = Reportable Detect	tion Limit							
OC Batch = Quality Cont	rol Batch							

Bureau Veritas ID		AMYP17		AMYP18		
Sampling Date		2025/01/01		2025/01/01		
COC Number		N/A		N/A		
	UNITS	SOUTH MONITOR PAH JANUARY 1,2025 AKGO88-01	RDL	NEW WEST MONITOR PAH JANUARY 1, 2025 AKGO89-01	RDL	QC Batch
Calculated Parameters						
Benzo(a)pyrene	ug/m3	0.00050	0.00031	<0.00032	0.00032	9854864
RDL = Reportable Detection	Limit					

QC Batch = Quality Control Batch



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.		



RAIN CARBON Canada Inc.
Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9854983	CTC	Spiked Blank	D10-2-Methylnaphthalene	2025/01/16		68	%	50 - 150
			D10-Fluoranthene	2025/01/16		78	%	50 - 150
			D10-Phenanthrene	2025/01/16		75	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/16		77	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/16		75	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/16		82	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/16		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/16		71	%	50 - 150
			D12-Chrysene	2025/01/16		77	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/16		77	%	50 - 150
			D12-Perylene	2025/01/16		76	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/16		76	%	50 - 150
			D8-Acenaphthylene	2025/01/16		71	%	50 - 150
			D8-Naphthalene	2025/01/16		64	%	50 - 150
			Benzo(a)pyrene	2025/01/16		73	%	50 - 150
9854983	CTC	RPD	Benzo(a)pyrene	2025/01/16	7.1		%	50
9854983	CTC	Method Blank	D10-2-Methylnaphthalene	2025/01/16		72	%	50 - 150
			D10-Fluoranthene	2025/01/16		80	%	50 - 150
			D10-Phenanthrene	2025/01/16		76	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/16		76	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/16		74	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/16		72	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/16		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/16		70	%	50 - 150
			D12-Chrysene	2025/01/16		80	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/16		74	%	50 - 150
			D12-Perylene	2025/01/16		78	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/16		72	%	50 - 150
			D8-Acenaphthylene	2025/01/16		74	%	50 - 150
			D8-Naphthalene	2025/01/16		72	%	50 - 150
			Benzo(a)pyrene	2025/01/16	<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.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

M Di Grazia Melissa DiGrazia, Operations Manager, HRMS Department

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. #: 32669

Your Project #: 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: 2025/01/20

Report #: R8472653 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C500409 Received: 2025/01/03, 09:56

Sample Matrix: Puf And Filter # Samples Received: 1

	Da	ate	Date		
Analyses	Quantity Ex	ktracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1 20	025/01/03	2025/01/16	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1 20	025/01/06	2025/01/16	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1 N/	/A	2025/01/17		

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.



Your Project #: 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: 2025/01/20

Report #: R8472653 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C500409 Received: 2025/01/03, 09:56

Encryption Key

Cristina (Maria) Bacchus Project Manager 20 Jan 2025 10:10:29

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763



Rotek Environmental Inc.
Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AMXY79	
Sampling Date		2025/01/02	
COC Number		N/A	
		STN29164	
	UNITS	01-JAN-25 PUF#1	QC Batch
Volume	m3		QC Batch ONSITE



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 32669

Sampler Initials: RH

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

Bureau Veritas ID		AMXY79		
Sampling Date		2025/01/02		
COC Number		N/A		
	UNITS	STN29164 01-JAN-25 PUF#1	RDL	QC Batch
Benzo(a)pyrene	ug	0.14	0.10	9854983
Surrogate Recovery (%)			•	
D10-2-Methylnaphthalene	%	62		9854983
D10-Fluoranthene	%	72		9854983
D10-Fluorene (FS)	%	66		9854983
D10-Phenanthrene	%	70		9854983
D12-Benzo(a)anthracene	%	70		9854983
D12-Benzo(a)pyrene	%	66		9854983
D12-Benzo(b)fluoranthene	%	75		9854983
D12-Benzo(ghi)perylene	%	69		9854983
D12-Benzo(k)fluoranthene	%	64		9854983
D12-Chrysene	%	70		9854983
D12-Indeno(1,2,3-cd)pyrene	%	69		9854983
D12-Perylene	%	69		9854983
D14-Dibenzo(a,h)anthracene	%	69		9854983
D14-Terphenyl (FS)	%	72		9854983
D8-Acenaphthylene	%	64		9854983
D8-Naphthalene	%	54		9854983
RDL = Reportable Detection Lin QC Batch = Quality Control Bat			•	

QC Batch = Quality Control Batch



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AMXY79		
Sampling Date		2025/01/02		
COC Number		N/A		
	UNITS	STN29164	RDL	QC Batch
		01-JAN-25 PUF#1		
Benzo(a)pyrene	ng/m3		0.30	9854301



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Report Date: 2025/01/20

Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9854983	CTC	Spiked Blank	D10-2-Methylnaphthalene	2025/01/16		68	%	50 - 150
			D10-Fluoranthene	2025/01/16		78	%	50 - 150
			D10-Phenanthrene	2025/01/16		75	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/16		77	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/16		75	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/16		82	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/16		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/16		71	%	50 - 150
			D12-Chrysene	2025/01/16		77	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/16		77	%	50 - 150
			D12-Perylene	2025/01/16		76	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/16		76	%	50 - 150
			D8-Acenaphthylene	2025/01/16		71	%	50 - 150
			D8-Naphthalene	2025/01/16		64	%	50 - 150
			Benzo(a)pyrene	2025/01/16		73	%	50 - 150
9854983	CTC	RPD	Benzo(a)pyrene	2025/01/16	7.1		%	50
9854983	CTC	Method Blank	D10-2-Methylnaphthalene	2025/01/16		72	%	50 - 150
			D10-Fluoranthene	2025/01/16		80	%	50 - 150
			D10-Phenanthrene	2025/01/16		76	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/16		76	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/16		74	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/16		72	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/16		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/16		70	%	50 - 150
			D12-Chrysene	2025/01/16		80	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/16		74	%	50 - 150
			D12-Perylene	2025/01/16		78	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/16		72	%	50 - 150
			D8-Acenaphthylene	2025/01/16		74	%	50 - 150
			D8-Naphthalene	2025/01/16		72	%	50 - 150
			Benzo(a)pyrene	2025/01/16	<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.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 32669 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Cristina Carrière
Cristina Carriere, Senior Scientific Specialist
M Di Grazia
Melissa DiGrazia, Operations Manager, HRMS Department



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: 2025/01/30

Report #: R8478858 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C505024 Received: 2025/01/15, 16:30

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	5	2025/01/16	2025/01/30	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/01/17	2025/01/23	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/01/16	j	

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.



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: 2025/01/30

Report #: R8478858

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C505024 Received: 2025/01/15, 16:30

Encryption Key

Julian Tong
Project Manager Assistan

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com

Phone# (905) 817-5700



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ANGI72	ANGI73	ANGI74	ANGI75	
Sampling Date		2025/01/13	2025/01/13	2025/01/13	2025/01/13	
COC Number		N/A	N/A	N/A	N/A	
	UNITS	EAST MONITOR PAH JANUARY 13, 2025 AMXL07-01	NORTH MONITOR PAH JANUARY 13, 2025 AMXL08-01	OLD WEST MONITOR PAH JUNUARY 13, 2025 AMXL09-01	SOUTH MONITOR PAH JANUARY 13,2025 AMXL10-01	QC Batch
Volume	m3	328.9	300.1	334.7	325.6	ONSITE
QC Batch = Quality Control Ba	atch				•	•

Bureau Veritas ID		ANGI76	
Sampling Date		2025/01/13	
COC Number		N/A	
	UNITS	NEW WEST MONITOR PAH JANUARY 13,2025 AMXL11-01	QC Batch
Volume	m3	318.6	ONSITE
QC Batch = Quality Control Ba	atch		-



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

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

Bureau Veritas ID		ANGI72	ANGI73	ANGI74	ANGI75		
Sampling Date		2025/01/13	2025/01/13	2025/01/13	2025/01/13		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH JANUARY 13, 2025 AMXL07-01	NORTH MONITOR PAH JANUARY 13, 2025 AMXL08-01	OLD WEST MONITOR PAH JUNUARY 13, 2025 AMXL09-01	SOUTH MONITOR PAH JANUARY 13,2025 AMXL10-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.32	0.88	<0.10	<0.10	0.10	9860962
Surrogate Recovery (%)							
D10-2-Methylnaphthalene	%	80	88	86	82		9860962
D10-Anthracene	%	84	92	90	84		9860962
D10-Fluoranthene	%	82	90	88	82		9860962
D10-Fluorene (FS)	%	76	81	84	78		9860962
D10-Phenanthrene	%	82	88	88	82		9860962
D12-Benzo(a)anthracene	%	90	92	86	82		9860962
D12-Benzo(a)pyrene	%	86	90	86	82		9860962
D12-Benzo(b)fluoranthene	%	88	90	88	84		9860962
D12-Benzo(ghi)perylene	%	84	88	86	82		9860962
D12-Benzo(k)fluoranthene	%	88	92	90	86		9860962
D12-Chrysene	%	88	92	90	86		9860962
D12-Indeno(1,2,3-cd)pyrene	%	84	88	84	82		9860962
D12-Perylene	%	86	90	90	84		9860962
D14-Dibenzo(a,h)anthracene	%	82	88	82	78		9860962
D14-Terphenyl (FS)	%	85	97	94	80		9860962
D8-Acenaphthylene	%	78	86	88	80		9860962
D8-Naphthalene	%	80	84	80	76		9860962

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RAIN CARBON Canada Inc.
Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

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

Bureau Veritas ID		ANGI76		
Sampling Date		2025/01/13		
COC Number		N/A		
	UNITS	NEW WEST MONITOR PAH JANUARY 13,2025 AMXL11-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	<0.10	0.10	9860962
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	90		9860962
D10-Anthracene	%	90		9860962
D10-Fluoranthene	%	88		9860962
D10-Fluorene (FS)	%	86		9860962
D10-Phenanthrene	%	88		9860962
D12-Benzo(a)anthracene	%	88		9860962
D12-Benzo(a)pyrene	%	88		9860962
D12-Benzo(b)fluoranthene	%	90		9860962
D12-Benzo(ghi)perylene	%	88		9860962
D12-Benzo(k)fluoranthene	%	92		9860962
D12-Chrysene	%	92		9860962
D12-Indeno(1,2,3-cd)pyrene	%	86		9860962
D12-Perylene	%	90		9860962
D14-Dibenzo(a,h)anthracene	%	82		9860962
D14-Terphenyl (FS)	%	92		9860962
D8-Acenaphthylene	%	88		9860962
D8-Naphthalene	%	84		9860962
RDL = Reportable Detection Li QC Batch = Quality Control Ba				



Report Date: 2025/01/30

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ANGI72		ANGI73		ANGI74		
Sampling Date		2025/01/13		2025/01/13		2025/01/13		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH JANUARY 13, 2025 AMXL07-01	RDL	NORTH MONITOR PAH JANUARY 13, 2025 AMXL08-01	RDL	OLD WEST MONITOR PAH JUNUARY 13, 2025 AMXL09-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00098	0.00030	0.00294	0.00033	<0.00030	0.00030	9860352
RDL = Reportable Dete	ction Limit		<u>. </u>					
OC Batch = Quality Con	trol Batch							

QC Batch = Quality Control Batch

Bureau Veritas ID		ANGI75	ANGI76		
Sampling Date		2025/01/13	2025/01/13		
COC Number		N/A	N/A		
	UNITS	SOUTH MONITOR PAH JANUARY 13,2025 AMXL10-01	NEW WEST MONITOR PAH JANUARY 13,2025 AMXL11-01	RDL	QC Batch
Calculated Parameters					
Benzo(a)pyrene	ug/m3	<0.00031	<0.00031	0.00031	9860352
RDL = Reportable Detection L	imit	_	_		



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.		



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9860962	MPQ	Spiked Blank	D10-2-Methylnaphthalene	2025/01/23		84	%	50 - 150
			D10-Anthracene	2025/01/23		84	%	50 - 150
			D10-Fluoranthene	2025/01/23		84	%	50 - 150
			D10-Phenanthrene	2025/01/23		82	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/23		76	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/23		86	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/23		84	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/23		84	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/23		88	%	50 - 150
			D12-Chrysene	2025/01/23		78	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/23		84	%	50 - 150
			D12-Perylene	2025/01/23		80	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/23		80	%	50 - 150
			D8-Acenaphthylene	2025/01/23		86	%	50 - 150
			D8-Naphthalene	2025/01/23		84	%	50 - 150
			Benzo(a)pyrene	2025/01/23		67	%	50 - 150
9860962	MPQ	RPD	Benzo(a)pyrene	2025/01/23	8.6		%	50
9860962	MPQ	Method Blank	D10-2-Methylnaphthalene	2025/01/23		88	%	50 - 150
			D10-Anthracene	2025/01/23		88	%	50 - 150
			D10-Fluoranthene	2025/01/23		86	%	50 - 150
			D10-Phenanthrene	2025/01/23		84	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/23		76	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/23		86	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/23		84	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/23		82	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/23		92	%	50 - 150
			D12-Chrysene	2025/01/23		82	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/23		80	%	50 - 150
			D12-Perylene	2025/01/23		80	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/23		76	%	50 - 150
			D8-Acenaphthylene	2025/01/23		90	%	50 - 150
			D8-Naphthalene	2025/01/23		90	%	50 - 150
			Benzo(a)pyrene	2025/01/23	<0.050		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.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

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



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: 2025/01/30

Report #: R8478859 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C505105 Received: 2025/01/16, 10:36

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2025/01/16	2025/01/16	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/01/17	2025/01/23	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2025/01/16	i	

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.



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: 2025/01/30

Report #: R8478859 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C505105 Received: 2025/01/16, 10:36

Encryption Key



Bureau Veritas

30 Jan 2025 17:10:34

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.



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ANGM97	
Sampling Date		2025/01/13	
COC Number		N/A	
	UNITS	STN29164 13-JAN-25 PUF#1-AMBW86-01	QC Batch
Volume	m3	331.8	ONSITE



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

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

	ANGM97		
	2025/01/13		
	N/A		
UNITS	STN29164 13-JAN-25 PUF#1-AMBW86-01	RDL	QC Batch
ug	<0.10	0.10	9860962
•		•	
%	84		9860962
%	88		9860962
%	86		9860962
%	81		9860962
%	86		9860962
%	86		9860962
%	88		9860962
%	88		9860962
%	86		9860962
%	92		9860962
%	88		9860962
%	86		9860962
%	90		9860962
%	82		9860962
%	84		9860962
%	86		9860962
%	78		9860962
	ug	2025/01/13 N/A STN29164 13-JAN-25 PUF#1-AMBW86-01 Ug	2025/01/13 N/A STN29164 13-JAN-25 PUF#1-AMBW86-01 Ug <0.10 0.10

QC Batch = Quality Control Batch



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ANGM97		
Sampling Date		2025/01/13		
COC Number		N/A		
	UNITS	STN29164 13-JAN-25 PUF#1-AMBW86-01	RDL	QC Batch
Benzo(a)pyrene	ng/m3	<0.30	0.30	9860352

RDL = Reportable Detection Limit QC Batch = Quality Control Batch



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Report Date: 2025/01/30

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9860962	MPQ	Spiked Blank	D10-2-Methylnaphthalene	2025/01/23		84	%	50 - 150
			D10-Anthracene	2025/01/23		84	%	50 - 150
			D10-Fluoranthene	2025/01/23		84	%	50 - 150
			D10-Phenanthrene	2025/01/23		82	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/23		76	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/23		86	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/23		84	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/23		84	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/23		88	%	50 - 150
			D12-Chrysene	2025/01/23		78	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/23		84	%	50 - 150
			D12-Perylene	2025/01/23		80	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/23		80	%	50 - 150
			D8-Acenaphthylene	2025/01/23		86	%	50 - 150
			D8-Naphthalene	2025/01/23		84	%	50 - 150
			Benzo(a)pyrene	2025/01/23		67	%	50 - 150
9860962	MPQ	RPD	Benzo(a)pyrene	2025/01/23	8.6		%	50
9860962	MPQ	Method Blank	D10-2-Methylnaphthalene	2025/01/23		88	%	50 - 150
			D10-Anthracene	2025/01/23		88	%	50 - 150
			D10-Fluoranthene	2025/01/23		86	%	50 - 150
			D10-Phenanthrene	2025/01/23		84	%	50 - 150
			D12-Benzo(a)anthracene	2025/01/23		76	%	50 - 150
			D12-Benzo(a)pyrene	2025/01/23		86	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/01/23		84	%	50 - 150
			D12-Benzo(ghi)perylene	2025/01/23		82	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/01/23		92	%	50 - 150
			D12-Chrysene	2025/01/23		82	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/01/23		80	%	50 - 150
			D12-Perylene	2025/01/23		80	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/01/23		76	%	50 - 150
			D8-Acenaphthylene	2025/01/23		90	%	50 - 150
			D8-Naphthalene	2025/01/23		90	%	50 - 150
			Benzo(a)pyrene	2025/01/23	<0.050		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.



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

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



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: 2025/02/12

Report #: R8486839 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509445
Received: 2025/01/28, 16:01

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2025/01/29	2025/01/29	BRL SOP-00201	
Calculated Polyaromatic Hydrocarbons	4	2025/01/29	2025/02/12	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/01/30	2025/02/10	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/01/29		

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.



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: 2025/02/12

Report #: R8486839

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509445 Received: 2025/01/28, 16:01

Encryption Key

Julian Tong

Project Manager Assist

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com

Phone# (905) 817-5700



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID Sampling Date COC Number		ANPA34 2025/01/25 N/A	ANPA35 2025/01/25 N/A	ANPA36 2025/01/25 N/A	ANPA37 2025/01/25 N/A	
	UNITS	EAST MONITOR PAH JANUARY 25, 2025 AMXL33-01	NORTH MONITOR PAH JANUARY 25, 2025 AMXL34-01	OLD WEST MONITOR PAH JANUARY 25, 2025 AMXL35-01	SOUTH MONITOR PAH JANUARY 25, 2025 AMXL36-01	QC Batch
Volume	m3	329.9	302.1	338.4	312.8	ONSITE
QC Batch = Quality Control E	atch	_				

Bureau Veritas ID		ANPA38						
Sampling Date		2025/01/25						
COC Number		N/A						
	UNITS	NEW WEST MONITOR PAH JANUARY 25, 2025 AMXL37-01	QC Batch					
Volume	m3	324.4	ONSITE					
QC Batch = Quality Control Batch								



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

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

Bureau Veritas ID		ANPA34	ANPA35	ANPA36	ANPA37		
Sampling Date		2025/01/25	2025/01/25	2025/01/25	2025/01/25		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH JANUARY 25, 2025 AMXL33-01	NORTH MONITOR PAH JANUARY 25, 2025 AMXL34-01	OLD WEST MONITOR PAH JANUARY 25, 2025 AMXL35-01	SOUTH MONITOR PAH JANUARY 25, 2025 AMXL36-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.16	0.34	<0.10	<0.10	0.10	9867445
Surrogate Recovery (%)	<u>. </u>						
D10-2-Methylnaphthalene	%	94	86	84	86		9867445
D10-Fluoranthene	%	88	86	90	88		9867445
D10-Fluorene (FS)	%	96	90	92	90		9867445
D10-Phenanthrene	%	88	86	88	86		9867445
D12-Benzo(a)anthracene	%	80	76	78	78		9867445
D12-Benzo(a)pyrene	%	88	86	90	88		9867445
D12-Benzo(b)fluoranthene	%	58	56	60	60		9867445
D12-Benzo(ghi)perylene	%	84	82	80	84		9867445
D12-Benzo(k)fluoranthene	%	72	68	74	72		9867445
D12-Chrysene	%	88	84	84	86		9867445
D12-Indeno(1,2,3-cd)pyrene	%	84	82	82	84		9867445
D14-Dibenzo(a,h)anthracene	%	82	80	78	82		9867445
D14-Terphenyl (FS)	%	90	86	112	88		9867445
D8-Acenaphthylene	%	92	86	88	90		9867445
D8-Naphthalene	%	92	84	82	78		9867445
RDL = Reportable Detection Lir	mit					•	

QC Batch = Quality Control Batch



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

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

Bureau Veritas ID		ANPA38		
Sampling Date		2025/01/25		
COC Number		N/A		
	UNITS	NEW WEST MONITOR PAH JANUARY 25, 2025 AMXL37-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	<0.10	0.10	9867445
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	86		9867445
D10-Fluoranthene	%	92		9867445
D10-Fluorene (FS)	%	98		9867445
D10-Phenanthrene	%	84		9867445
D12-Benzo(a)anthracene	%	76		9867445
D12-Benzo(a)pyrene	%	83		9867445
D12-Benzo(b)fluoranthene	%	56		9867445
D12-Benzo(ghi)perylene	%	78		9867445
D12-Benzo(k)fluoranthene	%	68		9867445
D12-Chrysene	%	82		9867445
D12-Indeno(1,2,3-cd)pyrene	%	78		9867445
D14-Dibenzo(a,h)anthracene	%	74		9867445
D14-Terphenyl (FS)	%	84		9867445
D8-Acenaphthylene	%	88		9867445
D8-Naphthalene	%	78		9867445
RDL = Reportable Detection Li QC Batch = Quality Control Bat				



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ANPA34		ANPA35		ANPA36		
Sampling Date		2025/01/25		2025/01/25		2025/01/25		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH JANUARY 25, 2025 AMXL33-01	RDL	NORTH MONITOR PAH JANUARY 25, 2025 AMXL34-01	RDL	OLD WEST MONITOR PAH JANUARY 25, 2025 AMXL35-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00049	0.00030	0.00113	0.00033	<0.00030	0.00030	9866919
RDL = Reportable Detection QC Batch = Quality Control								

Bureau Veritas ID		ANPA37		ANPA38				
Sampling Date		2025/01/25		2025/01/25				
COC Number		N/A		N/A				
	UNITS	SOUTH MONITOR PAH JANUARY 25, 2025 AMXL36-01	RDL	NEW WEST MONITOR PAH JANUARY 25, 2025 AMXL37-01	RDL	QC Batch		
Calculated Parameters								
Benzo(a)pyrene	ug/m3	<0.00032	0.00032	<0.00031	0.00031	9866919		
RDL = Reportable Detect QC Batch = Quality Cont								



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.	



Report Date: 2025/02/12

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9867445	MPQ	Spiked Blank	D10-2-Methylnaphthalene	2025/02/10		80	%	50 - 150
			D10-Fluoranthene	2025/02/10		86	%	50 - 150
			D10-Phenanthrene	2025/02/10		80	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/10		86	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/10		84	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/10		78	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/10		90	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/10		94	%	50 - 150
			D12-Chrysene	2025/02/10		88	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/10		90	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/10		86	%	50 - 150
			D8-Acenaphthylene	2025/02/10		80	%	50 - 150
			D8-Naphthalene	2025/02/10		84	%	50 - 150
			Benzo(a)pyrene	2025/02/10		85	%	50 - 150
9867445	MPQ	RPD	Benzo(a)pyrene	2025/02/10	2.9		%	50
9867445	MPQ	Method Blank	D10-2-Methylnaphthalene	2025/02/10		78	%	50 - 150
			D10-Fluoranthene	2025/02/10		86	%	50 - 150
			D10-Phenanthrene	2025/02/10		78	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/10		84	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/10		84	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/10		88	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/10		90	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/10		98	%	50 - 150
			D12-Chrysene	2025/02/10		92	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/10		90	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/10		86	%	50 - 150
			D8-Acenaphthylene	2025/02/10		76	%	50 - 150
			D8-Naphthalene	2025/02/10		82	%	50 - 150
			Benzo(a)pyrene	2025/02/10	<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.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

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



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: 2025/02/12

Report #: R8486841 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509934
Received: 2025/01/29, 10:07

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2025/01/29	2025/02/12	BRL SOP-00201	·
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/01/30	2025/02/10	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2025/01/29		

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.



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: 2025/02/12

Report #: R8486841 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509934 Received: 2025/01/29, 10:07

Encryption Key



Bureau Veritas

12 Feb 2025 17:48:12

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.



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ANPT67				
Sampling Date		2025/01/27				
COC Number		N/A				
	UNITS	STN29164 25-JAN-25 PUF #1 AMBX21-01	QC Batch			
Volume	m3	326.9	ONSITE			
QC Batch = Quality Control Batch						



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

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

Bureau Veritas ID		ANPT67		
Sampling Date		2025/01/27		
COC Number		N/A		
	UNITS	STN29164 25-JAN-25 PUF #1 AMBX21-01	RDL	QC Batch
Benzo(a)pyrene	ug	<0.10	0.10	9867445
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	88		9867445
D10-Fluoranthene	%	94		9867445
D10-Fluorene (FS)	%	96		9867445
D10-Phenanthrene	%	92		9867445
D12-Benzo(a)anthracene	%	88		9867445
D12-Benzo(a)pyrene	%	88		9867445
D12-Benzo(b)fluoranthene	%	82		9867445
D12-Benzo(ghi)perylene	%	82		9867445
D12-Benzo(k)fluoranthene	%	94		9867445
D12-Chrysene	%	88		9867445
D12-Indeno(1,2,3-cd)pyrene	%	82		9867445
D12-Perylene	%	80		9867445
D14-Dibenzo(a,h)anthracene	%	80		9867445
D14-Terphenyl (FS)	%	94		9867445
D8-Acenaphthylene	%	94		9867445
D8-Naphthalene	%	80		9867445
RDL = Reportable Detection Li QC Batch = Quality Control Bat				



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ANPT67		
Sampling Date		2025/01/27		
COC Number		N/A		
	UNITS	STN29164 25-JAN-25 PUF #1 AMBX21-01	RDL	QC Batch
Benzo(a)pyrene	ng/m3	<0.31	0.31	9866919

RDL = Reportable Detection Limit QC Batch = Quality Control Batch



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C509934 Report Date: 2025/02/12 Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9867445	MPQ	Spiked Blank	D10-2-Methylnaphthalene	2025/02/10		80	%	50 - 150
			D10-Fluoranthene	2025/02/10		86	%	50 - 150
			D10-Phenanthrene	2025/02/10		80	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/10		86	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/10		84	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/10		78	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/10		90	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/10		94	%	50 - 150
			D12-Chrysene	2025/02/10		88	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/10		90	%	50 - 150
			D12-Perylene	2025/02/10		86	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/10		86	%	50 - 150
			D8-Acenaphthylene	2025/02/10		80	%	50 - 150
			D8-Naphthalene	2025/02/10		84	%	50 - 150
			Benzo(a)pyrene	2025/02/10		85	%	50 - 150
9867445	MPQ	RPD	Benzo(a)pyrene	2025/02/10	2.9		%	50
9867445	MPQ	Method Blank	D10-2-Methylnaphthalene	2025/02/10		78	%	50 - 150
			D10-Fluoranthene	2025/02/10		86	%	50 - 150
			D10-Phenanthrene	2025/02/10		78	%	50 - 150
			D12-Benzo(a)anthracene	2025/02/10		84	%	50 - 150
			D12-Benzo(a)pyrene	2025/02/10		84	%	50 - 150
			D12-Benzo(b)fluoranthene	2025/02/10		88	%	50 - 150
			D12-Benzo(ghi)perylene	2025/02/10		90	%	50 - 150
			D12-Benzo(k)fluoranthene	2025/02/10		98	%	50 - 150
			D12-Chrysene	2025/02/10		92	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2025/02/10		90	%	50 - 150
			D12-Perylene	2025/02/10		90	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2025/02/10		86	%	50 - 150
			D8-Acenaphthylene	2025/02/10		76	%	50 - 150
			D8-Naphthalene	2025/02/10		82	%	50 - 150
			Benzo(a)pyrene	2025/02/10	<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.



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

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



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: 2025/01/16

Report #: R8471232 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500548 Received: 2025/01/03, 15:00

Sample Matrix: Air # Samples Received: 5

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	5	N/A	2025/01/0	6 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2025/01/0	6 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.



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: 2025/01/16

Report #: R8471232

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500548 Received: 2025/01/03, 15:00

Encryption Key

Julian Tong Project Manager Assistant 16 Jan 2025 16:36:11

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com

Phone# (905) 817-5700



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AMYL63	AMYL64	AMYL65	AMYL66	
Sampling Date		2025/01/01	2025/01/01	2025/01/01	2025/01/01	
COC Number		na	na	na	na	
	UNITS	EAST CANISTER VOC JANUARY 1, 2025/14270	NORTH CANISTER VOC JANUARY 1, 2025/14894	OLD WEST CANISTER VOC JANUARY 1, 2025/14518	SOUTH CANISTER VOC JANUARY 1, 2025/32591	QC Batch
Volatile Organics						
Pressure on Receipt	psig	(-2.4)	(-3.7)	(-6.2)	(-2.9)	9855080
QC Batch = Quality Contr	ol Batch		•		•	•

Bureau Veritas ID		AMYL67	
Sampling Date		2025/01/01	
COC Number		na	
	UNITS	NEW WEST CANISTER VOC JANUARY 1, 2025/18252	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-2.6)	9855080
QC Batch = Quality Control Ba	atch		



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

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AMYL63			AMYL64				
Sampling Date		2025/01/01			2025/01/01				
COC Number		na			na				
	UNITS	EAST CANISTER VOC JANUARY 1, 2025/14270	ug/m3	DL (ug/m3)	NORTH CANISTER VOC JANUARY 1, 2025/14894	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	3.89	12.4	0.319	0.22	0.10	0.706	0.319	9855081
Surrogate Recovery (%)	•		*	-		•	•	•	•
Bromochloromethane	%	72	N/A	N/A	69		N/A	N/A	9855081
D5-Chlorobenzene	%	67	N/A	N/A	64		N/A	N/A	9855081
Difluorobenzene	%	70	N/A	N/A	65		N/A	N/A	9855081
RDL = Reportable Detectio QC Batch = Quality Control N/A = Not Applicable			•	-					

Bureau Veritas ID		AMYL65				AMYL66				
Sampling Date		2025/01/01				2025/01/01				
COC Number		na				na				
	UNITS	OLD WEST CANISTER VOC JANUARY 1, 2025/14518	RDL	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC JANUARY 1, 2025/32591	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics										
Benzene	ppbv	0.20	0.18	0.651	0.575	4.36	0.10	13.9	0.319	9855081
Surrogate Recovery (%)										
Bromochloromethane	%	73		N/A	N/A	69		N/A	N/A	9855081
D5-Chlorobenzene	%	68		N/A	N/A	67		N/A	N/A	9855081
Difluorobenzene	%	70		N/A	N/A	67		N/A	N/A	9855081

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

N/A = Not Applicable



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

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AMYL67			AMYL67				
Sampling Date		2025/01/01			2025/01/01				
COC Number		na			na				
	UNITS	NEW WEST CANISTER VOC JANUARY 1, 2025/18252	ug/m3	DL (ug/m3)	NEW WEST CANISTER VOC JANUARY 1, 2025/18252 Lab-Dup	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	0.18	0.563	0.319	0.17	0.10	0.544	0.319	9855081
Surrogate Recovery (%)									
Bromochloromethane	%	69	N/A	N/A	68		N/A	N/A	9855081
D5-Chlorobenzene	%	63	N/A	N/A	62		N/A	N/A	9855081
Difluorobenzene	%	66	N/A	N/A	65		N/A	N/A	9855081

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Sample AMYL65 [OLD WEST CANISTER VOC JANUARY 1, 2025/14518] : Sample was pressurized due to high vacuum in can. The DL's were adjusted accordingly.

Results relate only to the items tested.



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9855081	DM2	Spiked Blank	Bromochloromethane	2025/01/06		104	%	60 - 140
			D5-Chlorobenzene	2025/01/06		105	%	60 - 140
			Difluorobenzene	2025/01/06		104	%	60 - 140
			Benzene	2025/01/06		95	%	70 - 130
9855081	DM2	Method Blank	Bromochloromethane	2025/01/06		90	%	60 - 140
			D5-Chlorobenzene	2025/01/06		81	%	60 - 140
			Difluorobenzene	2025/01/06		91	%	60 - 140
			Benzene	2025/01/06	<0.10		ppbv	
9855081	DM2	RPD [AMYL67-01]	Benzene	2025/01/06	3.4		%	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.



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

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Anke Macfarlane, Laboratory Manager, VOC



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: 2025/01/16

Report #: R8471231 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500348 Received: 2025/01/03, 09:57

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2025/01/06	5 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/01/06	5 BRL SOP-00304	EPA TO-15 m

Remarks:

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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.

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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.



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: 2025/01/16

Report #: R8471231 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500348 Received: 2025/01/03, 09:57

Encryption Key



Bureau Veritas

16 Jan 2025 07:46:13

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.



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AMXV79	
Sampling Date		2025/01/02	
COC Number		na	
		STN29164 01-JAN-	
	UNITS	25/23478	QC Batch
Pressure on Receipt	psig	25/23478 (-2.8)	QC Batch 9855080



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AMXV79				
Sampling Date		2025/01/02				
COC Number		na				
	UNITS	STN29164 01-JAN- 25/23478	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.50	0.10	1.58	0.319	9855081
Surrogate Recovery (%)	•					
Bromochloromethane	%	73		N/A	N/A	9855081
D5-Chlorobenzene	%	70		N/A	N/A	9855081
Difluorobenzene	%	71		N/A	N/A	9855081

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C500348 Report Date: 2025/01/16 Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9855081	DM2	Spiked Blank	Bromochloromethane	2025/01/06		104	%	60 - 140
			D5-Chlorobenzene	2025/01/06		105	%	60 - 140
			Difluorobenzene	2025/01/06		104	%	60 - 140
			Benzene	2025/01/06		95	%	70 - 130
9855081	DM2	Method Blank	Bromochloromethane	2025/01/06		90	%	60 - 140
			D5-Chlorobenzene	2025/01/06		81	%	60 - 140
			Difluorobenzene	2025/01/06		91	%	60 - 140
			Benzene	2025/01/06	<0.10		ppbv	
9855081	DM2	RPD	Benzene	2025/01/06	3.4		%	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.



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Anke Macfarlane, Laboratory Manager, VOC



Site Location: 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: 2025/01/29

Report #: R8477737 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C504667 Received: 2025/01/15, 16:30

Sample Matrix: Air # Samples Received: 4

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	4	N/A	2025/01/17	7 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	4	N/A	2025/01/17	7 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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 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(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.

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Site Location: 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: 2025/01/29

Report #: R8477737 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C504667 Received: 2025/01/15, 16:30

Encryption Key

Cristina (Maria) Bacchus Project Manager 29 Jan 2025 14:45:35

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com

Phone# (905) 817-5700



Report Date: 2025/01/29

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ANFS01	ANFS02	ANFS03	ANFS04					
Sampling Date		2025/01/13	2025/01/13	2025/01/13	2025/01/13					
COC Number		na	na	na	na					
	UNITS	EAST CANISTER VOC JANUARY 13, 2025	NORTH CANISTER VOC JANUARY 13, 2025	OLD WEST CANISTER VOC JANUARY 13, 2025	SOUTH CANISTER VOC JANUARY 13, 2025	QC Batch				
Volatile Organics										
Pressure on Receipt	psig	(-2.0)	(-3.2)	(-4.4)	(-2.9)	9861510				
QC Batch = Quality Contro	QC Batch = Quality Control Batch									



RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANFS01			ANFS02				
Sampling Date		2025/01/13			2025/01/13				
COC Number		na			na				
	UNITS	EAST CANISTER VOC JANUARY 13, 2025	ug/m3	DL (ug/m3)	NORTH CANISTER VOC JANUARY 13, 2025	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	8.97	28.6	0.319	1.80	0.10	5.76	0.319	9860623
Surrogate Recovery (%)			•			•			
Bromochloromethane	%	90	N/A	N/A	91		N/A	N/A	9860623
D5-Chlorobenzene	%	75	N/A	N/A	72		N/A	N/A	9860623
Difluorobenzene	%	90	N/A	N/A	90		N/A	N/A	9860623
RDL = Reportable Detectio	n Limit		•			•		•	
QC Batch = Quality Contro	l Batch								
N/A = Not Applicable									

Bureau Veritas ID		ANFS03			ANFS04				
Sampling Date		2025/01/13			2025/01/13				
COC Number		na			na				
	UNITS	OLD WEST CANISTER VOC JANUARY 13, 2025	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC JANUARY 13, 2025	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	0.21	0.658	0.319	0.23	0.10	0.739	0.319	9860623
Surrogate Recovery (%)									•
Bromochloromethane	%	90	N/A	N/A	90		N/A	N/A	9860623
D5-Chlorobenzene	%	71	N/A	N/A	72		N/A	N/A	9860623
Difluorobenzene	%	89	N/A	N/A	89		N/A	N/A	9860623

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

N/A = Not Applicable



RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Bureau Veritas Job #: C504667 Report Date: 2025/01/29 RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9860623	TIM	Spiked Blank	Bromochloromethane	2025/01/17		104	%	60 - 140
			D5-Chlorobenzene	2025/01/17		99	%	60 - 140
			Difluorobenzene	2025/01/17		103	%	60 - 140
			Benzene	2025/01/17		98	%	70 - 130
9860623	TIM	Method Blank	Bromochloromethane	2025/01/17		97	%	60 - 140
			D5-Chlorobenzene	2025/01/17		77	%	60 - 140
			Difluorobenzene	2025/01/17		97	%	60 - 140
			Benzene	2025/01/17	<0.10		ppbv	
9860623	TIM	RPD	Benzene	2025/01/17	0.14		%	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.



RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Hulanie Habr Melanie Mabini, Team Leader



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: 2025/01/29

Report #: R8478014 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C504894 Received: 2025/01/16, 10:36

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2025/01/17	7 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/01/17	7 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.



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: 2025/01/29

Report #: R8478014 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C504894 Received: 2025/01/16, 10:36

Encryption Key



Bureau Veritas

29 Jan 2025 15:27:13

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.



reau Veritas Job #: C504894 Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ANGB39	
Sampling Date		2025/01/13	
COC Number		na	
	LINUTE	STN29164 13-JAN-25	OC Batch
	DIVITS	311V29104 13-JAIV-25	QC Battii
Pressure on Receipt	psig	(-3.2)	9861333



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANGB39				
Sampling Date		2025/01/13				
COC Number		na				
	UNITS	STN29164 13-JAN-25	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.44	0.10	1.40	0.319	9860593
Surrogate Recovery (%)						
Bromochloromethane	%	78		N/A	N/A	9860593
D5-Chlorobenzene	%	84		N/A	N/A	9860593
Difluorobenzene	%	80		N/A	N/A	9860593
RDL = Reportable Detection	n Limit					

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9860593	NS2	Spiked Blank	Bromochloromethane	2025/01/17		105	%	60 - 140
			D5-Chlorobenzene	2025/01/17		103	%	60 - 140
			Difluorobenzene	2025/01/17		104	%	60 - 140
			Benzene	2025/01/17		97	%	70 - 130
9860593	NS2	Method Blank	Bromochloromethane	2025/01/17		101	%	60 - 140
			D5-Chlorobenzene	2025/01/17		98	%	60 - 140
			Difluorobenzene	2025/01/17		103	%	60 - 140
			Benzene	2025/01/17	< 0.10		ppbv	
9860593	NS2	RPD	Benzene	2025/01/17	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).



Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Hulanie Mabr	
Melanie Mabini, Team Leader	



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: 2025/02/07

Report #: R8483384 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C506927 Received: 2025/01/22, 08:31

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2025/01/23	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/01/23	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.



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: 2025/02/07

Report #: R8483384 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C506927 Received: 2025/01/22, 08:31

Encryption Key

Julian Tong

07 Feb 2025 17:00:11

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant Email: Julian.Tong@bureauveritas.com

Phone# (905) 817-5700



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ANKC21						
Sampling Date		2025/01/15						
COC Number		NA						
	UNITS	NEW WEST CANISTER VOC JANUARY 15, 2025/18273	QC Batch					
Volatile Organics								
Pressure on Receipt	psig	(-2.2)	9864474					
QC Batch = Quality Control Ba	QC Batch = Quality Control Batch							



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANKC21						
Sampling Date		2025/01/15						
COC Number		NA						
	UNITS	NEW WEST CANISTER VOC JANUARY 15, 2025/18273	RDL	ug/m3	DL (ug/m3)	QC Batch		
Volatile Organics								
Benzene	ppbv	0.26	0.10	0.830	0.319	9863882		
Surrogate Recovery (%)								
Bromochloromethane	%	91		N/A	N/A	9863882		
D5-Chlorobenzene	%	96		N/A	N/A	9863882		
Difluorobenzene	%	91		N/A	N/A	9863882		
RDL = Reportable Detection L	imit							
QC Batch = Quality Control Ba	atch							
N/A = Not Applicable								



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

[Report Reissued - V2 2025/02/07 - Sampling date changed and Sample ID changed as per client request

Results relate only to the items tested.



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9863882	LSY	Spiked Blank	Bromochloromethane	2025/01/23		107	%	60 - 140
			D5-Chlorobenzene	2025/01/23		108	%	60 - 140
			Difluorobenzene	2025/01/23		107	%	60 - 140
			Benzene	2025/01/23		92	%	70 - 130
9863882	LSY	Method Blank	Bromochloromethane	2025/01/23		96	%	60 - 140
			D5-Chlorobenzene	2025/01/23		91	%	60 - 140
			Difluorobenzene	2025/01/23		99	%	60 - 140
			Benzene	2025/01/23	<0.10		ppbv	

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.



reau Veritas Job #: C506927 RAIN CARBON Canada Inc.
port Date: 2025/02/07 Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Hulanie Habri	
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.



Your P.O. #: 4500610028

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: 2025/02/11

Report #: R8485535 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509339 Received: 2025/01/28, 16:01

Sample Matrix: Air # Samples Received: 5

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	5	N/A	2025/01/31	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2025/01/31	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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 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(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.



Your P.O. #: 4500610028

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: 2025/02/11

Report #: R8485535 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509339

Received: 2025/01/28, 16:01

Encryption Key

Julian Tong Project Manager Assistant 11 Feb 2025 10:54:33

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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RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ANOW46	ANOW47	ANOW48	ANOW49				
Sampling Date		2025/01/25	2025/01/25	2025/01/25	2025/01/25				
COC Number		na	na	na	na				
	UNITS	EAST CANISTER VOC JANUARY 25, 2025/14934	NORTH CANISTER VOC JANUARY 25, 2025/23649	OLD WEST CANISTER VOC JANUARY 25, 2025/18277	SOUTH CANISTER VOC JANUARY 25, 2025/23655	QC Batch			
Volatile Organics									
Pressure on Receipt	psig	(-1.7)	(-2.8)	(-4.7)	(-2.4)	9868849			
QC Batch = Quality Contr	QC Batch = Quality Control Batch								

Bureau Veritas ID		ANOW50	
Sampling Date		2025/01/25	
COC Number		na	
	UNITS	NEW WEST CANISTER VOC JANUARY 25, 2025/7855	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-2.1)	9868849
QC Batch = Quality Control	Batch		



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

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANOW46			ANOW46				
Sampling Date		2025/01/25			2025/01/25				
COC Number		na			na				
	UNITS	EAST CANISTER VOC JANUARY 25, 2025/14934	ug/m3	DL (ug/m3)	EAST CANISTER VOC JANUARY 25, 2025/14934 Lab-Dup	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	6.05	19.3	0.319	6.10	0.10	19.5	0.319	9868244
Surrogate Recovery (%)									
Bromochloromethane	%	93	N/A	N/A	90		N/A	N/A	9868244
D5-Chlorobenzene	%	91	N/A	N/A	89		N/A	N/A	9868244
Difluorobenzene	%	92	N/A	N/A	90		N/A	N/A	9868244

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

Bureau Veritas ID		ANOW47			ANOW48				
Sampling Date		2025/01/25			2025/01/25				
COC Number		na			na				
	UNITS	NORTH CANISTER VOC JANUARY 25, 2025/23649	ug/m3	DL (ug/m3)	OLD WEST CANISTER VOC JANUARY 25, 2025/18277	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	2.59	8.27	0.319	0.49	0.10	1.55	0.319	9868244
Surrogate Recovery (%)									
Bromochloromethane	%	79	N/A	N/A	81		N/A	N/A	9868244
D5-Chlorobenzene	%	85	N/A	N/A	84		N/A	N/A	9868244
Difluorobenzene	%	81	N/A	N/A	83		N/A	N/A	9868244

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



RAIN CARBON Canada Inc.
Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANOW49			ANOW50				
Sampling Date		2025/01/25			2025/01/25				
COC Number		na			na				
	UNITS	SOUTH CANISTER VOC JANUARY 25, 2025/23655	ug/m3	DL (ug/m3)	NEW WEST CANISTER VOC JANUARY 25, 2025/7855	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	0.24	0.759	0.319	0.46	0.10	1.46	0.319	9868244
Surrogate Recovery (%)			•						
Bromochloromethane	%	86	N/A	N/A	85		N/A	N/A	9868244
D5-Chlorobenzene	%	86	N/A	N/A	84		N/A	N/A	9868244
			N/A	N/A	84		N/A	N/A	9868244

N/A = Not Applicable



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Daniella			
Results	s relate oniv	to the items	testea.



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9868244	NS2	Spiked Blank	Bromochloromethane	2025/01/31		104	%	60 - 140
			D5-Chlorobenzene	2025/01/31		105	%	60 - 140
			Difluorobenzene	2025/01/31		105	%	60 - 140
			Benzene	2025/01/31		101	%	70 - 130
9868244	NS2	Method Blank	Bromochloromethane	2025/01/31		102	%	60 - 140
			D5-Chlorobenzene	2025/01/31		98	%	60 - 140
			Difluorobenzene	2025/01/31		104	%	60 - 140
			Benzene	2025/01/31	<0.10		ppbv	
9868244	NS2	RPD [ANOW46-01]	Benzene	2025/01/31	0.95		%	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.



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

Sampler Initials: RH

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: 2025/02/11

Report #: R8485540 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509540 Received: 2025/01/29, 10:07

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2025/01/31	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/01/31	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.



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: 2025/02/11

Report #: R8485540 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C509540 Received: 2025/01/29, 10:07

Encryption Key



Bureau Veritas

11 Feb 2025 08:42:51

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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Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ANPD40	
Sampling Date		2025/01/27	
COC Number		na	
		STN29164 25-JAN-	
	UNITS	25/17178	QC Batch
Pressure on Receipt	psig	25/17178 (-3.2)	9868849



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ANPD40				
Sampling Date		2025/01/27				
COC Number		na				
	UNITS	STN29164 25-JAN- 25/17178	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.32	0.10	1.01	0.319	9868244
Surrogate Recovery (%)	•		•			
Bromochloromethane	%	79		N/A	N/A	9868244
D5-Chlorobenzene	%	84		N/A	N/A	9868244
Difluorobenzene	%	80		N/A	N/A	9868244

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Report Date: 2025/02/11

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9868244	NS2	Spiked Blank	Bromochloromethane	2025/01/31		104	%	60 - 140
			D5-Chlorobenzene	2025/01/31		105	%	60 - 140
			Difluorobenzene	2025/01/31		105	%	60 - 140
			Benzene	2025/01/31		101	%	70 - 130
9868244	NS2	Method Blank	Bromochloromethane	2025/01/31		102	%	60 - 140
			D5-Chlorobenzene	2025/01/31		98	%	60 - 140
			Difluorobenzene	2025/01/31		104	%	60 - 140
			Benzene	2025/01/31	< 0.10		ppbv	
9868244	NS2	RPD	Benzene	2025/01/31	0.95		%	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.



Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 32669 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Hulanie Mabr	
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.

APPENDIX E

Field Notes



Station : East

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

Quarter 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
01-Jan-25	AKGO85-01	AKCO95 01	31-Dec-24	38	4958.59	38	4981.91	02-Jan-25	325.6	23.32	RH	
01-Jan-25	PUF#1 AKGO85-0	AKG085-01	16:00	36	4930.39	30	4901.91	15:30	323.0	20.02	IXII	
42 lon 25	AMXL07-01	AMXL07-01	10-Jan-25	38	4981.91	38	F00F 07	14-Jan-25	220.0	23.36	RH	
13-Jan-25	PUF#1	AMIXLU7-U1	18:22	38	4981.91	36	5005.27	15:50	328.9	23.30	KH	
25 Jan 25	AMXL33-01	AMVI 22 04	24-Jan-25	25 38	F00F 27	20	F020 F4	27-Jan-25	329.9	22.27	DU	
25-Jan-25	PUF#1	- AMXL33-01	14:10	38	5005.27	5005.27 38	5028.54	13:30		23.27	RH	



Station : North

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

	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	
01-3411-25	PUF#2	AKGO80-01	16:20	36	3109.39	36	32 13.04	15:45	230.2	20.40		
42 Jan 25	AMXL08-01	AMYLOG 04	10-Jan-25	20	2242.04	20	2020 40	14-Jan-25	200.4	22.20	RH	
13-Jan-25	PUF#1	AMXL08-01	18:42	38	3213.04	38	3236.42	16:00	300.1	23.38	KI	
25 1 25	AMXL34-01	AMVI 24 04	24-Jan-25	20	2226 42	20	2250.70	27-Jan-25		22.26	DU	
25-Jan-25	PUF#2	AMXL34-01	14:25	38	3236.42	38	3259.78	13:45	302.1	23.36	RH	



Station : Old West

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

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	AKGO87-01	AKCO97.01	31-Dec-24	38	4853.36	38	4877.14	02-Jan-25	332.2	23.78	RH	
01-3411-25	PUF#3	AKGO87-01	17:15	36	4033.30	50	4077.14	16:45	332.2	20.70	1011	
42 Jan 25	AMXL09-01	AMYL 00 04	10-Jan-25	20	4077.44	20	4000.04	14-Jan-25	224.7	22.77	RH	
13-Jan-25	PUF#1	AMXL09-01	19:25	38	4877.14	38	4900.91	17:10	334.7	23.77	КП	
25 Jan 25	AMXL35-01	AMVI 25 01	24-Jan-25	38	4900.91	38	4924.79	27-Jan-25	338.4	23.88	RH	
20-Jan-25	i-Jan-25 AMXL35-01 PUF#3	15:30	J0	4900.91	30	4924.79	17:54	336.4	23.00	КП		



Station : South

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam 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	
01-3411-25	PUF#4	ANGO88-01	16:30	36	47.54.17	30	4737.13	16:05	320.9	22.50	IXII	
42 Jan 25	AMXL10-01	AMYL 40 04	10-Jan-25	20	4757.40	20	4700 40	14-Jan-25	225.6	22.00	RH	
13-Jan-25	PUF#1	AMXL10-01	19:10	38	4757.13	38	4780.19	16:30	325.6	23.06	КП	
05 1 05	AMXL36-01	AAAVI 00 04	24-Jan-25	00	4700.40	00	4000.04	27-Jan-25	040.0	00.00	DI	
25-Jan-25 PUF#4	AMXL36-01 -	14:45	38	4780.19	32	4803.01	14:00	312.8	22.82	RH		



Station : New West

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

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	
01-3411-25	PUF#5		16:50	36	4559.21	30	4302.93	16:20	310.2	20.00	MI	
13-Jan-00	AMXL11-01	AMXL11-01	10-Jan-25	38	4500.00	20	4500 F0	14-Jan-25	240.6	22.57	RH	
13-Jan-00	PUF#1	AWALTI-UT	19:20	38	4562.93	38	4586.50	16:45	318.6	23.57	КП	
25 Jan 25	AMXL37-01	AMVI 27 04	24-Jan-25	38	4586.50	20	4610.20	27-Jan-25	224.4	22.70	RH	
25-Jan-25 PUI	PUF#5	AMXL37-01	15:00	30	4560.50	0 38	4610.29	18:26	324.4	23.79	КП	



Station : East

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

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	14270	16:10		-30.0		-7.5	15:40		24.0	RH		
13-Jan-25	267	10-Jan-25		-30.0		-8.0	14-Jan-25		24.0	RH		
13-Jan-25	201	18:32		-30.0		-6.0	15:50		24.0	KII		
25-Jan-25	14934	24-Jan-25		-30.0		-7.0	27-Jan-25		24.0	RH		
25-5d11-25	14334	14:10		-50.0		-7.0	13:30		24.0	КП		



Station : North

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

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		
13-3411-25	27034	18:42		-30.0		-10.0	16:05					
25-Jan-25	23649	24-Jan-25		-30.0		-9.5	27-Jan-25		24.0	RH		
25-Jan-25	23049	14:25		-30.0		-9.5	13:50		24.0			



Station : Old West

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

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	14510	31-Dec-24		-30.0		-16.0	02-Jan-25		24.0	RH		
01-Jan-25	14518	15:30		-30.0		-16.0	16:45					
13-Jan-25	32578	10-Jan-25		-30.0		-14.0	14-Jan-25		24.0	RH		
13-Jan-25	32376	19:30		-30.0		-14.0	17:05					
25-Jan-25	18277	24-Jan-25		-30.0		-13.0	27-Jan-25		24.0	RH		
20-Jan-25	10277	15:32		-30.0		-13.0	17:58					



Station : South

Location : 725 Strathearne Avenue N, Hamilton

Period : January 1 to March 31, 2025

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
04.105	00504	31-Dec-24		20.0		0.0	02-Jan-25		04.0	BU		
01-Jan-25	32591	16:40		-30.0		-8.0	16:10		24.0	RH		
13-Jan-25	7849	10-Jan-25		-30.0		-9.5	14-Jan-25	-	24.0	RH		
13-3411-25	7043	18:59		-30.0		-9.5	16:20		24.0			
25-Jan-25	23655	24-Jan-25		-30.0		-7.0	27-Jan-25		24.0	RH		
20-JdII-25	25055	14:44		-30.0		-7.0	14:05					



Station : New West

Location: 725 Strathearne Avenue N, Hamilton

Period: January 1 to March 31, 2025

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	18252	31-Dec-25		-30.0		-4.0	02-Jan-25		24.0	RH		
01-0411-20	10232	17:03		-50.0			16:30					
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		19:16					16:45					VOC sampler timer valve failure. Resample on January 15, 2025.
2025-01-15	18273	14-Jan-25		20.0		-4.0	20-Jan-25		24.0	RH		
Resample	102/3	16:45		-28.0			11:20					
25-Jan-25	7055	24-Jan-25		20.0		4.0	27-Jan-25		24.0	RH		
	7855	15:08		-30.0		-4.0	17:42		24.0			