

**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

Electronic copy - Ontario Ministry of the Environment, Conservation and Parks

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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



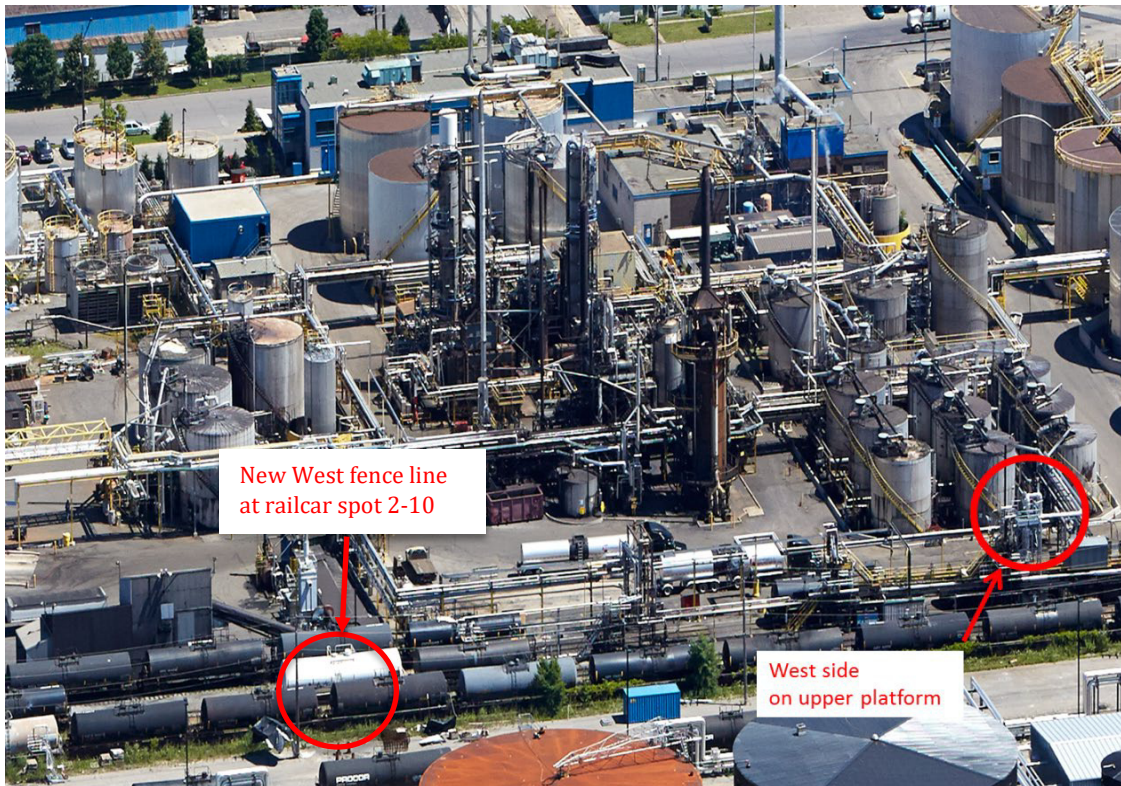


Figure 3: Monitor Locations on the West Side of the Facility



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 +/- 10% which is equivalent to total volumes between 293.6 m<sup>3</sup> and 358.8 m<sup>3</sup> 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 m<sup>3</sup> and 358.8 m<sup>3</sup> 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 Date	Benzene SUMMA Canister Pressure on Receipt (inches Hg)				New West	HAMN STN 29164
	East	North	Old West	South		
January 1	- 4.88*	- 7.53	- 12.62*	- 5.90	- 5.29	-5.70
January 13	- 4.07*	- 6.52	- 8.96	- 5.90	<b>Sampler failure</b>	- 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**

Monitoring Event Date	+B(a)P PUF Total Volume [m <sup>3</sup> ]					HAMN STN 29164
	East	North	Old West	South	New West	
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 µg/m<sup>3</sup> to 28.6 µg/m<sup>3</sup> 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 µg/m<sup>3</sup> benzene.

**Table 4: Summary of January 2025 Benzene Measurements**

Monitoring Event Date	Measured Concentration [µg/m <sup>3</sup> ]					HAMN STN 29164
	East	North	Old West	South	New West	
January 1	<b>3.89*</b>	<b>0.706</b>	<b>0.651*</b>	13.9	0.563	1.58
January 13	<b>28.6*</b>	5.76	0.658	0.739	-	1.40
January 15 (additional monitoring event)	-	-	-	-	<b>0.830*</b>	-
January 25	<b>19.3*</b>	8.27	1.55	<b>0.759*</b>	<b>1.46*</b>	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.**

Monitoring Event Date	Measured Concentration [ $\mu\text{g}/\text{m}^3$ ]					HAMN STN 29164
	East	North	Old West	South	New West	
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  $\mu\text{g}/\text{m}^3$  to **0.00294  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of 0.0050  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of 0.0050  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  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

*Robin Hart*

Robin S. Hart P.Eng.

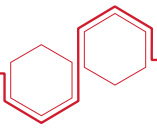
Environmental Engineer  
Rain Carbon Canada Inc.

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**APPENDIX A**

**Monitoring Plan**

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**REPORT**

# Monitoring Plan for Benzo(a)pyrene and Benzene

*Rain Carbon Canada Inc.*

Submitted to:

**Distribution List**

Submitted by:

**Rain Carbon Canada Inc.**

725 Strathearne Ave. N  
Hamilton, ON  
L8H 5L3

September 2020

## Distribution List

1 PDF Copy - MECP, SDB, Toronto

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

## 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	✓	✓	—	✓	✓	✓	✓
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/m <sup>3</sup> (0.1 ng/m <sup>3</sup> )
Benzene	Mass spectrometry or other detector(s) such as flame ionization detector (FID) or electron capture detector (ECD)	0.16 µg/m <sup>3</sup>

## 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

A handwritten signature in black ink that reads "R. S. Hart". The letters are cursive and fluid, with the first letters being capitalized and larger than the others.

Robin S. Hart P.Eng.

Environmental Engineer

Rain Carbon Canada Inc.

# Figures

**Figure 1: Site Plan**





Figure 2: Environmental Monitor Locations



# Site Photos



**Figure A1: Site-Wide Aerial View 1**



**Figure A2: Site-Wide Aerial View 2**





**Figure A4: Aerial View 2 – North Monitoring Station.**



**North monitor**

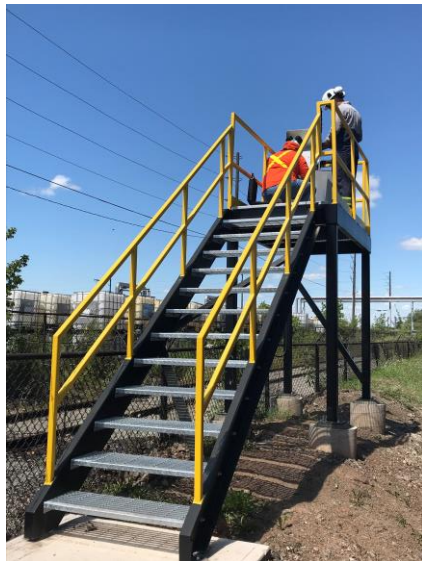


**Figure A3: Aerial View 1 – Existing South Monitoring Station**





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



**New West Monitor**



East monitor



Figure A4: Aerial View 4 – East Monitoring Station

**APPENDIX B**

**Laboratory Analysis**

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## 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

<b>Parameter</b>
<b>Units</b>
<b>Analytical RDL</b>
<b>Annual Site-Specific Standard</b>

<b>BaP</b>
ng/m <sup>3</sup>
0.315
0.8

<b>Sample Date</b>
January 1, 2025
January 13, 2025
January 25, 2025

<b>Location</b>					
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*

<b>Monthly Ave</b>
<b>Monthly Max</b>
<b>Monthly Min</b>
<b>No. of Samples &gt; Standard</b>
<b>No. of Valid Samples</b>
<b>% Valid Data</b>

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 ½ the Reportable Detection Limit (RDL).

<b>Comments:</b>
------------------

## 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

<b>Parameter</b>
<b>Units</b>
<b>Analytical RDL</b>
<b>Annual Site-Specific Standard</b>

<b>Benzene</b>
µg/m <sup>3</sup>
0.319
<b>12.7</b>

<b>Sample Date</b>
<b>January 1, 2025</b>
<b>January 13, 2025</b>
<b>January 15, 2025 (additional new west monitoring event)</b>
<b>January 25, 2025</b>

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

<b>Monthly Ave</b>
<b>Monthly Max</b>
<b>Monthly Min</b>
<b>No. of Samples &gt;Standard</b>
<b>No. of Valid Samples</b>
<b>% Valid Data</b>

<b>17.26</b>	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

**Note:** All non detectable results reported as ½ the Reportable Detection Limit (RDL).

<b>Comments:</b>
------------------



## 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	BaP
Units	ng/m <sup>3</sup>
Analytical RDL	0.315
Annual Site Specific Standard	0.8

Sample Date	Location					
	East	North	Old West	South	New West	STN29164
01-Jan-25	---	---	---	---	---	0.43
13-Jan-25	---	---	---	---	---	0.15
25-Jan-25	---	---	---	---	---	0.15

<b>Monthly Ave</b>	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.24
<b>Monthly Max</b>	0.00	0.00	0.00	0.00	0.00	0.43
<b>Monthly Min</b>	0.00	0.00	0.00	0.00	0.00	0.15
<b>No. of Samples &gt;Standard</b>	0	0	0	0	0	0
<b>No. of Valid Samples</b>	0	0	0	0	0	3
<b>% Valid Data</b>	100	100	100	100	100	100

**Note:** All non detectable results reported as ½ the Reportable Detection Limit (RDL).

<b>Comments</b>
-----------------

## 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/m <sup>3</sup>
Analytical RDL	0.319
Site Specific Standard	12.7

Sample Date	Location					
	East	North	Old West	South	New West	STN29164
01-Jan-25	---	---	---	---	---	1.58
13-Jan-25	---	---	---	---	---	1.40
25-Jan-25	---	---	---	---	---	1.01

<b>Monthly Ave</b>	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.33
<b>Monthly Max</b>	0.00	0.00	0.00	0.00	0.00	1.58
<b>Monthly Min</b>	0.00	0.00	0.00	0.00	0.00	1.01
<b>No. of Samples &gt;Standard</b>	0	0	0	0	0	0
<b>No. of Valid Samples</b>	0	0	0	0	0	3
<b>% Valid Data</b>	100	100	100	100	100	100

**Note:** All non detectable results reported as ½ the Reportable Detection Limit (RDL).

Comments

**APPENDIX C**

**Chain of Custody Forms**

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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	Removal Date	MAGN Off	Total Volume m3	Submission
				Install Time	inH2O	Removal Time	inH2O		Date
STN29164	01 Jan 2025	PUF #1	AMBT00-01	31-Dec-24	38	02-Jan-25	38	329.2	03-Jan-25
		AMBT01-01		11:15		13:00			
Comment 1 :									
Comment 2 :									



**AIR**

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Fax: (905) 817-5777

**Chain of Custody Form - PUF / PAH**

INVOICE INFORMATION				REPORT INFORMATION				ANALYSIS REQUESTED											
Company Name: <u>Rotek Environmental Inc</u>		Company Name: <u>Rotek Environmental Inc</u>		START VACUUM (inches of Hg)	END 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	PAHs on PUF by EPA TO13	DO NOT ANALYZE	CANISTERS NOT USED			
Contact Name: <u>Paul Daszko</u>		Project Manager: <u>Paul Daszko</u>																	
Address: <u>15 Keefer Court Hamilton</u>		Address: <u>15 Keefer Court Hamilton</u>																	
<u>ON L8E 4V4</u>		<u>ON L8E 4V4</u>																	
E-mail: <u>poore@rotekinc.com</u>		E-mail: <u>jennifer.davies@rotekinc.com</u>																	
Ph: <u>905 573 9533</u>		Ph: <u>905 573 9533</u>																	
Sampled by: <u>Robin Hart</u>																			
Field Sample ID			BV PUF ID #	Flow Regulator Serial #	Retrieval Date														
<u>STN29164 01-Jan-25 PUF #1</u>			<u>AMBT01-01</u>	<u>---</u>	<u>02-Jan-25</u>														

S/L



NONT-2025-01-144

<b>TAT Requirement</b> STD 10 Business day <input checked="" type="checkbox"/> Rush 5 Business day * <input type="checkbox"/> Rush 2 Business day * <input type="checkbox"/> Rush Other * <input type="checkbox"/> * need approval from Bureau Veritas	<b>PROJECT INFORMATION</b> Project #: _____ Name: <u>Rain Carbon Canada Inc</u> PO #: <u>32669</u> Bureau Veritas Quote #: _____ Bureau Veritas Contact: <u>Cristina Bacchus</u> Task Order/Line Item: _____	<b>REPORTING REQUIREMENTS</b> EDD Regulations <input type="checkbox"/> ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other <input type="checkbox"/>	<b>Notes</b> 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused <b>PROJECT SPECIFIC COMMENTS</b> Analyse for BaP only in ng/m3. Please copy results to <a href="mailto:york.zhang@raincarbon.com">york.zhang@raincarbon.com</a> , <a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a> , <a href="mailto:jennifer.davies@rotekinc.com">jennifer.davies@rotekinc.com</a> , <a href="mailto:daszko@rotekinc.com">daszko@rotekinc.com</a>
Client Signature: <u>Doug Cunningham</u>	Received by: <u>[Signature]</u>		Date/Time: <u>January 3 2025 9:55</u>
Date/Time: <u>January 3 2025 9:55</u>		Date/Time: <u>2025/01/03, 09:56</u>	

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-1/-2/-2 on no pm







C505105  
2025/01/16 10:36



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CAM FCD-01302 /3  
Page \_1\_ of \_2\_

Chain of Custody Form - PUF / PAH

INVOICE INFORMATION				REPORT INFORMATION				ANALYSIS REQUESTED													
Company Name: <u>Rotek Environmental Inc</u>				Company Name: <u>Rotek Environmental Inc</u>				START VACUUM (inches of Hg)	END 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	PAHs on PUF by EPA TO13	DO NOT ANALYZE	CANISTERS NOT USED	
Contact Name: <u>Paul Daszko</u>				Project Manager: <u>Paul Daszko</u>																	
Address: <u>15 Keefer Court Hamilton</u>				Address: <u>15 Keefer Court Hamilton</u>																	
<u>ON L8E 4V4</u>				<u>ON L8E 4V4</u>																	
E-mail: <u>poore@rotekinc.com</u>				E-mail: <u>jennifer.davies@rotekinc.com</u>																	
Ph: <u>905 573 9533</u>				Ph: <u>905 573 9533</u>																	
Sampled by: <u>Robin Hart</u>																					
Field Sample ID	BV PUF ID #	Flow Regulator Serial #	Retrieval Date																		
STN29164	13-Jan-25	PUF #1	AMBW86-01	---	14-Jan-25																
				---																	
				---																	
				---																	
				---																	
				---																	

52

NONT-2025-01-2209

<b>TAT Requirement</b> STD 10 Business day <input checked="" type="checkbox"/> Rush 5 Business day * <input type="checkbox"/> Rush 2 Business day * <input type="checkbox"/> Rush Other * <input type="checkbox"/> * need approval from Bureau Veritas	<b>PROJECT INFORMATION</b> Project #: Name: <u>Rain Carbon Canada Inc</u> PO #: <u>32669</u> Bureau Veritas Quote #: Bureau Veritas Contact: <u>Cristina Bacchus</u> Task Order/Line Item	<b>REPORTING REQUIREMENTS</b> EDD Regulations <input type="checkbox"/> ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other	<b>Notes</b> 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused <b>PROJECT SPECIFIC COMMENTS</b> Analyse for BaP only in ng/m3. Please copy results to <a href="mailto:york.zhang@raincarbon.com">york.zhang@raincarbon.com</a> , <a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a> , <a href="mailto:jennifer.davies@rotekinc.com">jennifer.davies@rotekinc.com</a> , <a href="mailto:gaszko@rotekinc.com">gaszko@rotekinc.com</a>
Client Signature: <u>Doug Cunningham</u>	Received by:		
Date/Time: <u>January 16 2025 10:35</u>	Date/Time: <u>2025/1/16 12:26 -1-1-25</u>		

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

**PAH Sample Submission Sheet**

<b>Sample Date</b>	13-Jan-25
<b>Project ID</b>	Rain Carbon Canada Inc
<b>Sampler Model</b>	TE-1000
<b>Site Operator</b>	York Zhang / Robin Hart

<b>Purchase Order Number</b>	<b>32669</b>
<b>Results to:</b>	jennifer.davies@rotekinc.com
<b>Results to:</b>	daszko@rotekinc.com
<b>Results to:</b>	robin.hart@raincarbon.com
<b>Results to:</b>	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	lnH2O	Removal Time	lnH2O		
STN29164	13 Jan 2025	PUF #1	AMBW85-01	08-Jan-25	38	14-Jan-25	38	331.8	16-Jan-25
		AMBW86-01		15:45		11:00			
<b>Comment 1 :</b>									
<b>Comment 2 :</b>									

C509445  
2025/01/28 16:01

AIR



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CHAIN OF CUSTODY FORM - AIR

CAM FCD-01302 /3  
Page \_\_\_ of \_\_\_

**CLIENT INFORMATION**  
Company Name: Rain Carbon Canada Inc.

**SECTION**  
Project Manager: Robin Hart  
e-mail: robin.hart@raincarbon.com  
Address: 725 Strathearne Avenue  
Hamilton, ON

Phone: 1-647-281-8094 Fax: \_\_\_\_\_

Sampled by: Robin Hart

PAHs on PUF as per ERP 7013					ANALYSIS REQUESTED															
Field Sample ID	Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time																
East Monitor PAH January 25, 2025 AMXL33-01	329.90		25-Jan-25	24 hours	x															
North Monitor PAH January 25, 2025 AMXL34-01	302.10		25-Jan-25	24 hours	x															
Old West Monitor PAH January 25, 2025 AMXL35-01	338.40		25-Jan-25	24 hours	x															
South Monitor PAH January 25, 2025 AMXL36-01	312.80		25-Jan-25	24 hours	x															
New West Monitor PAH January 25, 2025 AMXL37-01	324.40		25-Jan-25	24 hours	x															



**TAT Requirement**

STD 10 Business day   
 Rush 5 Business day \*   
 Rush 2 Business day \*   
 \* need approval from Bureau Veritas

**PROJECT INFORMATION**

Project #: \_\_\_\_\_  
 Name: Rain Carbon Canada Inc.  
 PO #: 4500610028  
 BV Quote #: \_\_\_\_\_  
 BV Contact: Cristina Bacchus

**REPORTING REQUIREMENTS**

Summary Report only   
 EDD   
 Regulation \_\_\_\_\_

Client Signature: Robin Hart  
 Affiliation: Environmental Engineer  
 Date/Time: 28-Jan-25 1:00 PM

Received by: [Signature]  
 Affiliation: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**Notes**  
 Please note if these samples are "Industrial Hygiene" samples  
 If submitting dustfall samples, please indicate the diameter of the jar opening in cm.  
**PROJECT SPECIFIC COMMENTS**

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2025/01/28 16:01  
4/575





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Fax: (905) 817-5777

**CHAIN OF CUSTODY FORM - AIR**

**ANALYSIS REQUESTED**

<b>CLIENT INFORMATION</b>	Company Name: <u>Rain Carbon Canada Inc.</u>	PAHs on PUF as per ERP 7013																			
	Project Manager: <u>Robin Hart</u>																				
	e-mail: <a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a>																				
	Address: <u>725 Strathearne Avenue</u> <u>Hamilton, ON</u>																				
<b>SECTION</b>	Phone: <u>1-647-281-8094</u> Fax: _____																				
	Sampled by: <u>Robin Hart</u>																				

Field Sample ID	Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time																
East Monitor PAH January 25, 2025 AMXL33-01	329.90		25-Jan-25	24 hours	x															
North Monitor PAH January 25, 2025 AMXL34-01	302.10		25-Jan-25	24 hours	x															
Old West Monitor PAH January 25, 2025 AMXL35-01	338.40		25-Jan-25	24 hours	x															
South Monitor PAH January 25, 2025 AMXL36-01	312.80		25-Jan-25	24 hours	x															
New West Monitor PAH January 25, 2025 AMXL37-01	324.40		25-Jan-25	24 hours	x															

<b>TAT Requirement</b> STD 10 Business day <input checked="" type="checkbox"/> Rush 5 Business day * <input type="checkbox"/> Rush 2 Business day * <input type="checkbox"/> * need approval from Bureau Veritas	<b>PROJECT INFORMATION</b> Project #: _____ Name: <u>Rain Carbon Canada Inc.</u> PO #: <u>4500610028</u> BV Quote #: _____ BV Contact: <u>Cristina Bacchus</u>	<b>REPORTING REQUIREMENTS</b> Summary Report only <input checked="" type="checkbox"/> EDD <input checked="" type="checkbox"/> Regulation _____	<b>Notes</b> <i>Please note if these samples are "Industrial Hygiene" samples</i> <i>If submitting dustfall samples, please indicate the diameter of the jar opening in cm.</i> <b>PROJECT SPECIFIC COMMENTS</b>	
		Client Signature: <u>Robin Hart</u>		Received by: _____
		Affiliation: <u>Environmental Engineer</u>		Affiliation: _____
Date/Time: <u>28-Jan-25 1:00 PM</u>	Date/Time: _____			

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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	25-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	Removal Date	MAGN Off	Total Volume m3	Submission Date
				Install Time	InH2O	Removal Time	InH2O		
STN29164	25 Jan 2025	PUF #1	AMBX20-01	23-Jan-25	36	27-Jan-25	36	326.9	29-Jan-25
		AMBX21-01		12:00		14:45			
Comment 1 :									
Comment 2 :									









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Fax: (905) 817-5777

Chain of Custody Form - Summa™ Canister

ANALYSIS REQUESTED

INVOICE INFORMATION		REPORT INFORMATION		START VACUUM (inches of Hg)	END 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	Other				CANISTERS NOT USED
Company Name:	Rain Carbon Canada Inc	Company Name:	Rain Carbon Canada															
Contact Name:	Robin Hart	Project Manager:	Robin Hart															
Address:	725Strathearne Avenue Hamilton, ON	Address:	725Strathearne Avenue Hamilton, ON															
E-mail:	<a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a>	E-mail:	<a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a>															
Ph:	1-647-281-8094	Ph:	1-647-281-8094															
Sampled by:	Robin Hart																	

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date															
East Canister VOC January 1, 2025	14270		01-Jan-25															
North Canister VOC January 1, 2025	14874		01-Jan-25										X					
Old West Canister VOC January 1, 2025	14518		01-Jan-25										X					
South Canister VOC January 1, 2025	32591		01-Jan-25										X					
New West Canister VOC January 1, 2025	18252		01-Jan-25										X					

<b>TAT Requirement</b> STD 10 Business day <input checked="" type="checkbox"/> Rush 5 Business day * <input type="checkbox"/> Rush 2 Business day * <input type="checkbox"/> Rush Other * <input type="checkbox"/> * need approval from Bureau Veritas	<b>PROJECT INFORMATION</b> Project #: Rain Carbon Canada Inc. Name: Robin Hart PO #: 4500610028 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item	<b>REPORTING REQUIREMENTS</b> EDD <input type="checkbox"/> Regulations ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other	<b>Notes</b> 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused <b>PROJECT SPECIFIC COMMENTS</b>
---	---	---	--

Client Signature: Robin Hart Environmental Engineer	Received by:
Date/Time: 2-Jan-25 6:00 PM	Date/Time:

**PLEASE RETURN ALL UNUSED EQUIPMENT**



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

### VOC Canister Sample Submission Sheet

<b>Sample Date</b>	01-Jan-25
<b>Project Name</b>	Rain Carbon Canada Inc.
<b>Contact Name</b>	Paul Daszko
<b>Contact Number</b>	905 531 2815

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

Station Number	Canister ID Number	Sample Date dd/mm/yy	Installation Date dd/mm/yy	Installation Time EST	Initial Pressure inHg	Time On EST	Time Off EST	Elapsed Time Hours	Final Pressure inHg	Retrieval Date dd/mm/yy	Retrieval Time EST
STN29164	23478	01-Jan-25	31-Dec-24	11:30	-29.0	00:01	23:59	24.0	-7.5	02-Jan-25	13:00

Comment 1 :

Comment 2 :









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

### VOC Canister Sample Submission Sheet

<b>Sample Date</b>	13-Jan-25
<b>Project Name</b>	Rain Carbon Canada Inc.
<b>Contact Name</b>	Paul Daszko
<b>Contact Number</b>	905 531 2815

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

Station Number	Canister ID Number	Sample Date dd/mm/yy	Installation Date dd/mm/yy	Installation Time EST	Initial Pressure inHg	Time On EST	Time Off EST	Elapsed Time Hours	Final Pressure inHg	Retrieval Date dd/mm/yy	Retrieval Time EST
STN29164	304	13-Jan-25	08-Jan-25	16:00	-29.0	00:01	23:59	24.0	-8.0	14-Jan-25	11:15

Comment 1 :

Comment 2 :













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Fax: (905) 817-5777

Chain of Custody Form - Summa™ Canister

ANALYSIS REQUESTED

INVOICE INFORMATION		REPORT INFORMATION		START VACUUM (inches of Hg)	END 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	Other				CANISTERS NOT USED
Company Name:	Rain Carbon Canada Inc	Company Name:	Rain Carbon Canada															
Contact Name:	Robin Hart	Project Manager:	Robin Hart															
Address:	725Strathearne Avenue Hamilton, ON	Address:	725Strathearne Avenue Hamilton, ON															
E-mail:	<a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a>	E-mail:	<a href="mailto:robin.hart@raincarbon.com">robin.hart@raincarbon.com</a>															
Ph:	1-647-281-8094	Ph:	1-647-281-8094															
Sampled by:	Robin Hart																	

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date															
East Canister VOC January 25, 2025	14934		25-Jan-25															
North Canister VOC January 25, 2025	23649		25-Jan-25										X					
Old West Canister VOC January 25, 2025	18277		25-Jan-25										X					
South Canister VOC January 25, 2025	23655		25-Jan-25										X					
New West Canister VOC January 25, 2025	7855		25-Jan-25										X					

<b>TAT Requirement</b> STD 10 Business day <input checked="" type="checkbox"/> Rush 5 Business day * <input type="checkbox"/> Rush 2 Business day * <input type="checkbox"/> Rush Other * <input type="checkbox"/> * need approval from Bureau Veritas	<b>PROJECT INFORMATION</b> Project #: Rain Carbon Canada Inc. Name: Robin Hart PO #: 4500610028 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item	<b>REPORTING REQUIREMENTS</b> EDD <input type="checkbox"/> Regulations ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other	<b>Notes</b> 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused <b>PROJECT SPECIFIC COMMENTS</b>
---	---	---	--

Client Signature: Robin Hart Environmental Engineer	Received by:
Date/Time: 28-Jan-25 1:00 PM	Date/Time:

**PLEASE RETURN ALL UNUSED EQUIPMENT**



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 dd/mm/yy	Installation Date dd/mm/yy	Installation Time EST	Initial Pressure inHg	Time On EST	Time Off EST	Elapsed Time Hours	Final Pressure inHg	Retrieval Date dd/mm/yy	Retrieval Time EST
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

CAM FCD-01302 /3



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C509540

-0639  
5700  
5777

Chain of Custody Form - Summa™ Canister

Page 2 of 2

INVOICE INFORMATION

CTV AIR-001

ANALYSIS REQUESTED

<b>Company Name:</b> Rotek Environmental Inc	<b>Company Name:</b> Rotek Environmental Inc
<b>Contact Name:</b> Paul Daszko	<b>Project Manager:</b> Paul Daszko
<b>Address:</b> 15 Keefer Court Hamilton ON L8E 4V4	<b>Address:</b> 15 Keefer Court Hamilton ON L8E 4V4
<b>E-mail:</b> poore@rotekinc.com	<b>E-mail:</b> jennifer.davies@rotekinc.com
<b>Ph:</b> 905 573 9533	<b>Ph:</b> 905 573 9533
<b>Sampled by:</b> Robin Hart	

START VACUUM (inches of Hg)	END 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	Other - Do Not Analyze							CANISTERS NOT USED	

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Retrieval Date
STN29164	17178	---	27-Jan-25
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<b>TAT Requirement</b> STD 10 Business day <input checked="" type="checkbox"/> Rush 5 Business day * <input type="checkbox"/> Rush 2 Business day * <input type="checkbox"/> Rush Other * <input type="checkbox"/> * need approval from Bureau Veritas	<b>PROJECT INFORMATION</b> Project #: _____ Name: Rain Carbon Canada Inc PO #: 32669 Bureau Veritas Quote #: _____ Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item _____	<b>REPORTING REQUIREMENTS</b> EDD <input type="checkbox"/> Regulations ON 153 <input checked="" type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other _____	<b>Notes</b> 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused <b>PROJECT SPECIFIC COMMENTS</b> Please issue Summa canister pressure upon receipt. Analyse for Benzene only in ug/m <sup>3</sup> . Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com
Client Signature: Doug Cunningham	Received by: <u>Cristina Bacchus</u>		
Date/Time: January 29 2025 10:05	Date/Time: 2025/01/29 10:07		

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**

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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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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		

**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, Acenaphthylene, Acenaphthene, 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.





**RESULTS OF ANALYSES OF PUF AND FILTER**

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

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



BUREAU  
VERITAS

Bureau Veritas Job #: C500610  
Report Date: 2025/01/17

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 Limit  
QC Batch = Quality Control Batch



BUREAU  
VERITAS

Bureau Veritas Job #: C500610  
Report Date: 2025/01/17

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)

<b>Bureau Veritas ID</b>		AMYP18		
<b>Sampling Date</b>		2025/01/01		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>NEW WEST MONITOR PAH JANUARY 1, 2025 AKG089-01</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Semivolatile Organics</b>				
Benzo(a)pyrene	ug	<0.10	0.10	9854983
<b>Surrogate Recovery (%)</b>				
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 Limit QC Batch = Quality Control Batch				



BUREAU  
VERITAS

Bureau Veritas Job #: C500610  
Report Date: 2025/01/17

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

### CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

<b>Bureau Veritas ID</b>		AMYP14		AMYP15		AMYP16		
<b>Sampling Date</b>		2025/01/01		2025/01/01		2025/01/01		
<b>COC Number</b>		N/A		N/A		N/A		
	<b>UNITS</b>	<b>EAST MONITOR PAH JANUARY 1, 2025 AKGO85-01</b>	<b>RDL</b>	<b>NORTH MONITOR PAH JANUARY 1,2025 AKGO 86-01</b>	<b>RDL</b>	<b>OLD WEST MONITOR PAH JANUARY 1,2025 AKGO87-01</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>								
Benzo(a)pyrene	ug/m3	<0.00031	0.00031	<0.00034	0.00034	<0.00030	0.00030	9854864
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

<b>Bureau Veritas ID</b>		AMYP17		AMYP18			
<b>Sampling Date</b>		2025/01/01		2025/01/01			
<b>COC Number</b>		N/A		N/A			
	<b>UNITS</b>	<b>SOUTH MONITOR PAH JANUARY 1,2025 AKGO88-01</b>	<b>RDL</b>	<b>NEW WEST MONITOR PAH JANUARY 1, 2025 AKGO89-01</b>	<b>RDL</b>	<b>QC Batch</b>	

<b>Calculated Parameters</b>						
Benzo(a)pyrene	ug/m3	0.00050	0.00031	<0.00032	0.00032	9854864
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						





**BUREAU  
VERITAS**

Bureau Veritas Job #: C500610  
Report Date: 2025/01/17

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C500610  
Report Date: 2025/01/17

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C500610  
Report Date: 2025/01/17

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

---

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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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	1	2025/01/03	2025/01/16	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/01/06	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.

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

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenaphthylene, Acenaphthene, 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. #: 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**

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

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C500409  
Report Date: 2025/01/20

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

**RESULTS OF ANALYSES OF PUF AND FILTER**

<b>Bureau Veritas ID</b>		AMXY79	
<b>Sampling Date</b>		2025/01/02	
<b>COC Number</b>		N/A	
	<b>UNITS</b>	<b>STN29164 01-JAN-25 PUF#1</b>	<b>QC Batch</b>
Volume	m3	329.2	ONSITE
QC Batch = Quality Control Batch			



BUREAU  
VERITAS

Bureau Veritas Job #: C500409  
Report Date: 2025/01/20

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)

<b>Bureau Veritas ID</b>		AMXY79		
<b>Sampling Date</b>		2025/01/02		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>STN29164 01-JAN-25 PUF#1</b>	<b>RDL</b>	<b>QC Batch</b>
Benzo(a)pyrene	ug	0.14	0.10	9854983
<b>Surrogate Recovery (%)</b>				
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 Limit QC Batch = Quality Control Batch				



**BUREAU  
VERITAS**

Bureau Veritas Job #: C500409  
Report Date: 2025/01/20

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

**CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)**

<b>Bureau Veritas ID</b>		AMXY79		
<b>Sampling Date</b>		2025/01/02		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>STN29164 01-JAN-25 PUF#1</b>	<b>RDL</b>	<b>QC Batch</b>
Benzo(a)pyrene	ng/m3	0.43	0.30	9854301

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



**BUREAU  
VERITAS**

Bureau Veritas Job #: C500409  
Report Date: 2025/01/20

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C500409  
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.





BUREAU  
VERITAS

Bureau Veritas Job #: C500409  
Report Date: 2025/01/20

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 Carriere*

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Cristina Carriere, Senior Scientific Specialist

*M Di Grazia*

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Melissa DiGrazia, Operations Manager, HRMS Department

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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: 2025/01/30**  
 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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		

**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, Acenaphthylene, Acenaphthene, 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: 2025/01/30**  
Report #: R8478858  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C505024**

**Received: 2025/01/15, 16:30**

Encryption Key

Julian Tong  
Project Manager Assistant  
30 Jan 2025 17:18:32

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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BUREAU  
VERITAS

Bureau Veritas Job #: C505024  
Report Date: 2025/01/30

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

### RESULTS OF ANALYSES OF PUF AND FILTER

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

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



BUREAU  
VERITAS

Bureau Veritas Job #: C505024  
Report Date: 2025/01/30

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 JANUARY 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





BUREAU  
VERITAS

Bureau Veritas Job #: C505024  
Report Date: 2025/01/30

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)**

<b>Bureau Veritas ID</b>		ANGI76		
<b>Sampling Date</b>		2025/01/13		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>NEW WEST MONITOR PAH JANUARY 13,2025 AMXL11-01</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Semivolatile Organics</b>				
Benzo(a)pyrene	ug	<0.10	0.10	9860962
<b>Surrogate Recovery (%)</b>				
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 Limit QC Batch = Quality Control Batch				



**BUREAU  
VERITAS**

Bureau Veritas Job #: C505024  
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)**

<b>Bureau Veritas ID</b>		ANGI72		ANGI73		ANGI74		
<b>Sampling Date</b>		2025/01/13		2025/01/13		2025/01/13		
<b>COC Number</b>		N/A		N/A		N/A		
	<b>UNITS</b>	<b>EAST MONITOR PAH JANUARY 13, 2025 AMXL07-01</b>	<b>RDL</b>	<b>NORTH MONITOR PAH JANUARY 13, 2025 AMXL08-01</b>	<b>RDL</b>	<b>OLD WEST MONITOR PAH JUNUARY 13, 2025 AMXL09-01</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>								
Benzo(a)pyrene	ug/m3	0.00098	0.00030	0.00294	0.00033	<0.00030	0.00030	9860352
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

<b>Bureau Veritas ID</b>		ANGI75		ANGI76		
<b>Sampling Date</b>		2025/01/13		2025/01/13		
<b>COC Number</b>		N/A		N/A		
	<b>UNITS</b>	<b>SOUTH MONITOR PAH JANUARY 13,2025 AMXL10-01</b>		<b>NEW WEST MONITOR PAH JANUARY 13,2025 AMXL11-01</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>						
Benzo(a)pyrene	ug/m3	<0.00031	<0.00031	0.00031	9860352	
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



**BUREAU  
VERITAS**

Bureau Veritas Job #: C505024  
Report Date: 2025/01/30

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C505024  
Report Date: 2025/01/30

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	
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.



BUREAU  
VERITAS

Bureau Veritas Job #: C505024  
Report Date: 2025/01/30

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:

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

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

**Attention: Ruetgers list**

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

**Report Date: 2025/01/30**  
 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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		

**Remarks:**

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

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

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

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

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

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

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenaphthylene, Acenaphthene, 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. #: 32669  
Site Location: RAIN CARBON CANADA INC  
Your C.O.C. #: N/A

**Attention: Ruetgers list**

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

**Report Date: 2025/01/30**  
Report #: R8478859  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C505105**

**Received: 2025/01/16, 10:36**

Encryption Key



**AUTHORIZED REPORT  
RAPPORT AUTORISÉ**

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

=====  
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**BUREAU  
VERITAS**

Bureau Veritas Job #: C505105  
Report Date: 2025/01/30

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

**RESULTS OF ANALYSES OF PUF AND FILTER**

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



BUREAU  
VERITAS

Bureau Veritas Job #: C505105  
Report Date: 2025/01/30

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

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

<b>Bureau Veritas ID</b>		ANGM97		
<b>Sampling Date</b>		2025/01/13		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>STN29164 13-JAN-25 PUF#1-AMBW86-01</b>	<b>RDL</b>	<b>QC Batch</b>
Benzo(a)pyrene	ug	<0.10	0.10	9860962
<b>Surrogate Recovery (%)</b>				
D10-2-Methylnaphthalene	%	84		9860962
D10-Anthracene	%	88		9860962
D10-Fluoranthene	%	86		9860962
D10-Fluorene (FS)	%	81		9860962
D10-Phenanthrene	%	86		9860962
D12-Benzo(a)anthracene	%	86		9860962
D12-Benzo(a)pyrene	%	88		9860962
D12-Benzo(b)fluoranthene	%	88		9860962
D12-Benzo(ghi)perylene	%	86		9860962
D12-Benzo(k)fluoranthene	%	92		9860962
D12-Chrysene	%	88		9860962
D12-Indeno(1,2,3-cd)pyrene	%	86		9860962
D12-Perylene	%	90		9860962
D14-Dibenzo(a,h)anthracene	%	82		9860962
D14-Terphenyl (FS)	%	84		9860962
D8-Acenaphthylene	%	86		9860962
D8-Naphthalene	%	78		9860962
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU  
VERITAS

Bureau Veritas Job #: C505105  
Report Date: 2025/01/30

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

**CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)**

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





**BUREAU  
VERITAS**

Bureau Veritas Job #: C505105  
Report Date: 2025/01/30

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

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C505105  
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		%
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.



BUREAU  
VERITAS

Bureau Veritas Job #: C505105  
Report Date: 2025/01/30

Rotek Environmental Inc.  
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:

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

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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: 2025/02/12**  
 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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:**

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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) 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, Acenaphthylene, Acenaphthene, 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: 2025/02/12**  
Report #: R8486839  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

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

Encryption Key

Julian Tong  
Project Manager Assistant  
13 Feb 2025 09:16:35

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

=====

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BUREAU  
VERITAS

Bureau Veritas Job #: C509445  
Report Date: 2025/02/12

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

### RESULTS OF ANALYSES OF PUF AND FILTER

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

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





BUREAU  
VERITAS

Bureau Veritas Job #: C509445  
Report Date: 2025/02/12

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 (%)							
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 Limit  
QC Batch = Quality Control Batch



BUREAU  
VERITAS

Bureau Veritas Job #: C509445  
Report Date: 2025/02/12

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)

<b>Bureau Veritas ID</b>		ANPA38		
<b>Sampling Date</b>		2025/01/25		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>NEW WEST MONITOR PAH JANUARY 25, 2025 AMXL37-01</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Semivolatile Organics</b>				
Benzo(a)pyrene	ug	<0.10	0.10	9867445
<b>Surrogate Recovery (%)</b>				
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 Limit QC Batch = Quality Control Batch				



BUREAU  
VERITAS

Bureau Veritas Job #: C509445  
Report Date: 2025/02/12

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

### CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

<b>Bureau Veritas ID</b>		ANPA34		ANPA35		ANPA36		
<b>Sampling Date</b>		2025/01/25		2025/01/25		2025/01/25		
<b>COC Number</b>		N/A		N/A		N/A		
	<b>UNITS</b>	<b>EAST MONITOR PAH JANUARY 25, 2025 AMXL33-01</b>	<b>RDL</b>	<b>NORTH MONITOR PAH JANUARY 25, 2025 AMXL34-01</b>	<b>RDL</b>	<b>OLD WEST MONITOR PAH JANUARY 25, 2025 AMXL35-01</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>								
Benzo(a)pyrene	ug/m3	0.00049	0.00030	0.00113	0.00033	<0.00030	0.00030	9866919
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

<b>Bureau Veritas ID</b>		ANPA37		ANPA38			
<b>Sampling Date</b>		2025/01/25		2025/01/25			
<b>COC Number</b>		N/A		N/A			
	<b>UNITS</b>	<b>SOUTH MONITOR PAH JANUARY 25, 2025 AMXL36-01</b>	<b>RDL</b>	<b>NEW WEST MONITOR PAH JANUARY 25, 2025 AMXL37-01</b>	<b>RDL</b>	<b>QC Batch</b>	

<b>Calculated Parameters</b>						
Benzo(a)pyrene	ug/m3	<0.00032	0.00032	<0.00031	0.00031	9866919
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



**BUREAU  
VERITAS**

Bureau Veritas Job #: C509445

Report Date: 2025/02/12

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C509445  
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.



**BUREAU  
VERITAS**

Bureau Veritas Job #: C509445  
Report Date: 2025/02/12

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

---

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

**Attention: Ruetgers list**

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

**Report Date: 2025/02/12**  
 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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, Acenaphthylene, Acenaphthene, 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. #: 32669  
Site Location: RAIN CARBON CANADA INC.  
Your C.O.C. #: N/A

**Attention: Ruetgers list**

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

**Report Date: 2025/02/12**  
Report #: R8486841  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C509934**

**Received: 2025/01/29, 10:07**

Encryption Key



**AUTHORIZED REPORT  
RAPPORT AUTORISÉ**

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

=====

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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.



**BUREAU  
VERITAS**

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

**RESULTS OF ANALYSES OF PUF AND FILTER**

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



BUREAU  
VERITAS

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

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

<b>Bureau Veritas ID</b>		ANPT67		
<b>Sampling Date</b>		2025/01/27		
<b>COC Number</b>		N/A		
	<b>UNITS</b>	<b>STN29164 25-JAN-25 PUF #1 AMBX21-01</b>	<b>RDL</b>	<b>QC Batch</b>
Benzo(a)pyrene	ug	<0.10	0.10	9867445
<b>Surrogate Recovery (%)</b>				
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 Limit QC Batch = Quality Control Batch				



BUREAU  
VERITAS

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

**CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)**

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



**BUREAU  
VERITAS**

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

### GENERAL COMMENTS

Results relate only to the items tested.





BUREAU  
VERITAS

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.



BUREAU  
VERITAS

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

### VALIDATION SIGNATURE PAGE

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

---

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

---

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Your P.O. #: 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: 2025/01/16**  
 Report #: R8471232  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C500548**

**Received: 2025/01/03, 15:00**

Sample Matrix: Air  
 # Samples Received: 5

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

**Remarks:**

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

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

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

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

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

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

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

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



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: 2025/01/16**  
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

=====

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BUREAU  
VERITAS

Bureau Veritas Job #: C500548  
Report Date: 2025/01/16

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

### RESULTS OF ANALYSES OF AIR

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

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



BUREAU  
VERITAS

Bureau Veritas Job #: C500548  
Report Date: 2025/01/16

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

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		AMYL63				AMYL64				
<b>Sampling Date</b>		2025/01/01				2025/01/01				
<b>COC Number</b>		na				na				
	<b>UNITS</b>	<b>EAST CANISTER VOC JANUARY 1, 2025/14270</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>		<b>NORTH CANISTER VOC JANUARY 1, 2025/14894</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>

<b>Volatile Organics</b>										
Benzene	ppbv	3.89	12.4	0.319	0.22	0.10	0.706	0.319	9855081	
<b>Surrogate Recovery (%)</b>										
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 Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

<b>Bureau Veritas ID</b>		AMYL65				AMYL66				
<b>Sampling Date</b>		2025/01/01				2025/01/01				
<b>COC Number</b>		na				na				
	<b>UNITS</b>	<b>OLD WEST CANISTER VOC JANUARY 1, 2025/14518</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>SOUTH CANISTER VOC JANUARY 1, 2025/32591</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>

<b>Volatile Organics</b>										
Benzene	ppbv	0.20	0.18	0.651	0.575	4.36	0.10	13.9	0.319	9855081
<b>Surrogate Recovery (%)</b>										
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										





BUREAU  
VERITAS

Bureau Veritas Job #: C500548  
Report Date: 2025/01/16

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
<b>Volatile Organics</b>									
Benzene	ppbv	0.18	0.563	0.319	0.17	0.10	0.544	0.319	9855081
<b>Surrogate Recovery (%)</b>									
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									



**BUREAU  
VERITAS**

Bureau Veritas Job #: C500548  
Report Date: 2025/01/16

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.**



### 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.



BUREAU  
VERITAS

Bureau Veritas Job #: C500548

Report Date: 2025/01/16

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

---

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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: 2025/01/16**  
 Report #: R8471231  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C500348**

**Received: 2025/01/03, 09:57**

Sample Matrix: Air  
 # Samples Received: 1

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

**Remarks:**

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

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

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

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

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

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

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

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



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: 2025/01/16**  
Report #: R8471231  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C500348**

**Received: 2025/01/03, 09:57**

Encryption Key



**AUTHORIZED REPORT  
RAPPORT AUTORISÉ**

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

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**BUREAU  
VERITAS**

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

**RESULTS OF ANALYSES OF AIR**

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



BUREAU  
VERITAS

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

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		AMXV79				
<b>Sampling Date</b>		2025/01/02				
<b>COC Number</b>		na				
	<b>UNITS</b>	<b>STN29164 01-JAN-25/23478</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>
Benzene	ppbv	0.50	0.10	1.58	0.319	9855081
<b>Surrogate Recovery (%)</b>						
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						



**BUREAU  
VERITAS**

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

### GENERAL COMMENTS

Results relate only to the items tested.



### 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.



BUREAU  
VERITAS

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

### VALIDATION SIGNATURE PAGE

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

\_\_\_\_\_  
Anke Macfarlane, Laboratory Manager, VOC

---

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Your P.O. #: 4500610028  
 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Canister Pressure (TO-15)	4	N/A	2025/01/17	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	4	N/A	2025/01/17	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.

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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  
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

=====

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BUREAU  
VERITAS

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

### 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
<b>Volatile Organics</b>						
Pressure on Receipt	psig	(-2.0)	(-3.2)	(-4.4)	(-2.9)	9861510
QC Batch = Quality Control Batch						



BUREAU  
VERITAS

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

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		ANFS01			ANFS02				
<b>Sampling Date</b>		2025/01/13			2025/01/13				
<b>COC Number</b>		na			na				
	<b>UNITS</b>	<b>EAST CANISTER VOC JANUARY 13, 2025</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>NORTH CANISTER VOC JANUARY 13, 2025</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>

<b>Volatile Organics</b>									
Benzene	ppbv	8.97	28.6	0.319	1.80	0.10	5.76	0.319	9860623
<b>Surrogate Recovery (%)</b>									
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 Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

<b>Bureau Veritas ID</b>		ANFS03			ANFS04				
<b>Sampling Date</b>		2025/01/13			2025/01/13				
<b>COC Number</b>		na			na				
	<b>UNITS</b>	<b>OLD WEST CANISTER VOC JANUARY 13, 2025</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>SOUTH CANISTER VOC JANUARY 13, 2025</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>

<b>Volatile Organics</b>									
Benzene	ppbv	0.21	0.658	0.319	0.23	0.10	0.739	0.319	9860623
<b>Surrogate Recovery (%)</b>									
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									



**BUREAU  
VERITAS**

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

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

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

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

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



BUREAU  
VERITAS

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

### VALIDATION SIGNATURE PAGE

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

---

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: 2025/01/29**  
 Report #: R8478014  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C504894**

**Received: 2025/01/16, 10:36**

Sample Matrix: Air  
 # Samples Received: 1

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

**Remarks:**

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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: 2025/01/29**  
Report #: R8478014  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C504894**

**Received: 2025/01/16, 10:36**

Encryption Key



**AUTHORIZED REPORT  
RAPPORT AUTORISÉ**

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

=====

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C504894  
Report Date: 2025/01/29

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

**RESULTS OF ANALYSES OF AIR**

<b>Bureau Veritas ID</b>		ANGB39	
<b>Sampling Date</b>		2025/01/13	
<b>COC Number</b>		na	
	<b>UNITS</b>	<b>STN29164 13-JAN-25</b>	<b>QC Batch</b>
Pressure on Receipt	psig	(-3.2)	9861333
QC Batch = Quality Control Batch			



BUREAU  
VERITAS

Bureau Veritas Job #: C504894  
Report Date: 2025/01/29

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

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		ANGB39				
<b>Sampling Date</b>		2025/01/13				
<b>COC Number</b>		na				
	<b>UNITS</b>	<b>STN29164 13-JAN-25</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>
Benzene	ppbv	0.44	0.10	1.40	0.319	9860593
<b>Surrogate Recovery (%)</b>						
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 Limit QC Batch = Quality Control Batch N/A = Not Applicable						



**BUREAU  
VERITAS**

Bureau Veritas Job #: C504894  
Report Date: 2025/01/29

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

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C504894  
Report Date: 2025/01/29

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
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  $\leq 2x$  RDL).



BUREAU  
VERITAS

Bureau Veritas Job #: C504894

Report Date: 2025/01/29

Rotek Environmental Inc.

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:

A handwritten signature in black ink that reads 'Melanie Mabini'.

---

Melanie Mabini, Team Leader

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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: 2025/02/07**  
 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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:**

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. #: 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: 2025/02/07**  
Report #: R8483384  
Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

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

Encryption Key

Julian Tong  
Project Manager Assistant  
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

=====

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C506927

Report Date: 2025/02/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028

Sampler Initials: RH

**RESULTS OF ANALYSES OF AIR**

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



BUREAU  
VERITAS

Bureau Veritas Job #: C506927

Report Date: 2025/02/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028

Sampler Initials: RH

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		ANKC21				
<b>Sampling Date</b>		2025/01/15				
<b>COC Number</b>		NA				
	<b>UNITS</b>	<b>NEW WEST CANISTER VOC JANUARY 15, 2025/18273</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>
<b>Volatile Organics</b>						
Benzene	ppbv	0.26	0.10	0.830	0.319	9863882
<b>Surrogate Recovery (%)</b>						
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 Limit QC Batch = Quality Control Batch N/A = Not Applicable						



**BUREAU  
VERITAS**

Bureau Veritas Job #: C506927

Report Date: 2025/02/07

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.**



BUREAU  
VERITAS

Bureau Veritas Job #: C506927  
Report Date: 2025/02/07

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.



BUREAU  
VERITAS

Bureau Veritas Job #: C506927

Report Date: 2025/02/07

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:

A handwritten signature in black ink that reads 'Melanie Mabini'.

---

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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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:**

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.

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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.

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. #: 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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BUREAU  
VERITAS

Bureau Veritas Job #: C509339  
Report Date: 2025/02/11

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

### RESULTS OF ANALYSES OF AIR

<b>Bureau Veritas ID</b>		ANOW46	ANOW47	ANOW48	ANOW49	
<b>Sampling Date</b>		2025/01/25	2025/01/25	2025/01/25	2025/01/25	
<b>COC Number</b>		na	na	na	na	
	<b>UNITS</b>	<b>EAST CANISTER VOC JANUARY 25, 2025/14934</b>	<b>NORTH CANISTER VOC JANUARY 25, 2025/23649</b>	<b>OLD WEST CANISTER VOC JANUARY 25, 2025/18277</b>	<b>SOUTH CANISTER VOC JANUARY 25, 2025/23655</b>	<b>QC Batch</b>

<b>Volatile Organics</b>						
Pressure on Receipt	psig	(-1.7)	(-2.8)	(-4.7)	(-2.4)	9868849
QC Batch = Quality Control Batch						

<b>Bureau Veritas ID</b>		ANOW50	
<b>Sampling Date</b>		2025/01/25	
<b>COC Number</b>		na	
	<b>UNITS</b>	<b>NEW WEST CANISTER VOC JANUARY 25, 2025/7855</b>	<b>QC Batch</b>

<b>Volatile Organics</b>			
Pressure on Receipt	psig	(-2.1)	9868849
QC Batch = Quality Control Batch			



BUREAU  
VERITAS

Bureau Veritas Job #: C509339  
Report Date: 2025/02/11

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

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		ANOW46			ANOW46				
<b>Sampling Date</b>		2025/01/25			2025/01/25				
<b>COC Number</b>		na			na				
	<b>UNITS</b>	<b>EAST CANISTER VOC JANUARY 25, 2025/14934</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>EAST CANISTER VOC JANUARY 25, 2025/14934 Lab-Dup</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>

<b>Volatile Organics</b>									
Benzene	ppbv	6.05	19.3	0.319	6.10	0.10	19.5	0.319	9868244
<b>Surrogate Recovery (%)</b>									
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									

<b>Bureau Veritas ID</b>		ANOW47			ANOW48				
<b>Sampling Date</b>		2025/01/25			2025/01/25				
<b>COC Number</b>		na			na				
	<b>UNITS</b>	<b>NORTH CANISTER VOC JANUARY 25, 2025/23649</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>OLD WEST CANISTER VOC JANUARY 25, 2025/18277</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>

<b>Volatile Organics</b>									
Benzene	ppbv	2.59	8.27	0.319	0.49	0.10	1.55	0.319	9868244
<b>Surrogate Recovery (%)</b>									
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									



BUREAU  
VERITAS

Bureau Veritas Job #: C509339  
Report Date: 2025/02/11

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
<b>Volatile Organics</b>									
Benzene	ppbv	0.24	0.759	0.319	0.46	0.10	1.46	0.319	9868244
<b>Surrogate Recovery (%)</b>									
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
Difluorobenzene	%	86	N/A	N/A	84		N/A	N/A	9868244
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



**BUREAU  
VERITAS**

Bureau Veritas Job #: C509339  
Report Date: 2025/02/11

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.



### 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.



BUREAU  
VERITAS

Bureau Veritas Job #: C509339  
Report Date: 2025/02/11

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:

---

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. #: 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

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
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



**AUTHORIZED REPORT  
RAPPORT AUTORISÉ**

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

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





**BUREAU  
VERITAS**

Bureau Veritas Job #: C509540  
Report Date: 2025/02/11

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

**RESULTS OF ANALYSES OF AIR**

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



BUREAU  
VERITAS

Bureau Veritas Job #: C509540  
Report Date: 2025/02/11

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

### VOLATILE ORGANICS BY GC/MS (AIR)

<b>Bureau Veritas ID</b>		ANPD40				
<b>Sampling Date</b>		2025/01/27				
<b>COC Number</b>		na				
	<b>UNITS</b>	<b>STN29164 25-JAN-25/17178</b>	<b>RDL</b>	<b>ug/m3</b>	<b>DL (ug/m3)</b>	<b>QC Batch</b>
Benzene	ppbv	0.32	0.10	1.01	0.319	9868244
<b>Surrogate Recovery (%)</b>						
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						



**BUREAU  
VERITAS**

Bureau Veritas Job #: C509540  
Report Date: 2025/02/11

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

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C509540  
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.



BUREAU  
VERITAS

Bureau Veritas Job #: C509540  
Report Date: 2025/02/11

Rotek Environmental Inc.  
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:

---

Melanie Mabini, Team Leader

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**APPENDIX E**

**Field Notes**



**PUF - Station Logs**

**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 <sup>3</sup> )	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
01-Jan-25	AKGO85-01	AKGO85-01	31-Dec-24	38	4958.59	38	4981.91	02-Jan-25	325.6	23.32	RH	
	PUF#1		16:00					15:30				
13-Jan-25	AMXL07-01	AMXL07-01	10-Jan-25	38	4981.91	38	5005.27	14-Jan-25	328.9	23.36	RH	
	PUF#1		18:22					15:50				
25-Jan-25	AMXL33-01	AMXL33-01	24-Jan-25	38	5005.27	38	5028.54	27-Jan-25	329.9	23.27	RH	
	PUF#1		14:10					13:30				



**PUF - Station Logs**

**Station** : North  
**Location** : 725 Strathearne Avenue N, Hamilton  
**Period** : January 1 to March 31, 2025  
**Quarter** : Q1

	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 <sup>3</sup> )	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	
	PUF#2		16:20					15:45				
13-Jan-25	AMXL08-01	AMXL08-01	10-Jan-25	38	3213.04	38	3236.42	14-Jan-25	300.1	23.38	RH	
	PUF#1		18:42					16:00				
25-Jan-25	AMXL34-01	AMXL34-01	24-Jan-25	38	3236.42	38	3259.78	27-Jan-25	302.1	23.36	RH	
	PUF#2		14:25					13:45				





**PUF - Station Logs**

**Station** : Old West  
**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 <sup>3</sup> )	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
01-Jan-25	AKGO87-01	AKGO87-01	31-Dec-24	38	4853.36	38	4877.14	02-Jan-25	332.2	23.78	RH	
	PUF#3		17:15					16:45				
13-Jan-25	AMXL09-01	AMXL09-01	10-Jan-25	38	4877.14	38	4900.91	14-Jan-25	334.7	23.77	RH	
	PUF#1		19:25					17:10				
25-Jan-25	AMXL35-01	AMXL35-01	24-Jan-25	38	4900.91	38	4924.79	27-Jan-25	338.4	23.88	RH	
	PUF#3		15:30					17:54				



**PUF - Station Logs**

**Station** : South  
**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 <sup>3</sup> )	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	
	PUF#4		16:30					16:05				
13-Jan-25	AMXL10-01	AMXL10-01	10-Jan-25	38	4757.13	38	4780.19	14-Jan-25	325.6	23.06	RH	
	PUF#1		19:10					16:30				
25-Jan-25	AMXL36-01	AMXL36-01	24-Jan-25	38	4780.19	32	4803.01	27-Jan-25	312.8	22.82	RH	
	PUF#4		14:45					14:00				



**PUF - Station Logs**

**Station** : New West  
**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 <sup>3</sup> )	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	
	PUF#5		16:50					16:20				
13-Jan-00	AMXL11-01	AMXL11-01	10-Jan-25	38	4562.93	38	4586.50	14-Jan-25	318.6	23.57	RH	
	PUF#1		19:20					16:45				
25-Jan-25	AMXL37-01	AMXL37-01	24-Jan-25	38	4586.50	38	4610.29	27-Jan-25	324.4	23.79	RH	
	PUF#5		15:00					18:26				



**VOC - Station Logs**

**Station** : East  
**Location** : 725 Strathearne Avenue N, Hamilton  
**Period** : January 1 to March 31, 2025  
**Quarter** : Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01-Jan-25	14270	31-Dec-24	---	-30.0	---	-7.5	02-Jan-25	---	24.0	RH		
		16:10					15:40					
13-Jan-25	267	10-Jan-25	---	-30.0	---	-8.0	14-Jan-25	---	24.0	RH		
		18:32					15:50					
25-Jan-25	14934	24-Jan-25	---	-30.0	---	-7.0	27-Jan-25	---	24.0	RH		
		14:10					13:30					



VOC - Station Logs

Station : North  
 Location : 725 Strathearne Avenue N, Hamilton  
 Period : January 1 to March 31, 2025  
 Quarter : Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01-Jan-25	14273	31-Dec-24	---	-30.0	---	-10.0	02-Jan-25	---	24.0	RH		
		15:30					15:45					
13-Jan-25	27694	10-Jan-25	---	-30.0	---	-10.0	14-Jan-25	---	24.0	RH		
		18:42					16:05					
25-Jan-25	23649	24-Jan-25	---	-30.0	---	-9.5	27-Jan-25	---	24.0	RH		
		14:25					13:50					



VOC - Station Logs

Station : Old West  
 Location : 725 Strathearne Avenue N, Hamilton  
 Period : January 1 to March 31, 2025  
 Quarter : Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01-Jan-25	14518	31-Dec-24	---	-30.0	---	-16.0	02-Jan-25	---	24.0	RH		
		15:30					16:45					
13-Jan-25	32578	10-Jan-25	---	-30.0	---	-14.0	14-Jan-25	---	24.0	RH		
		19:30					17:05					
25-Jan-25	18277	24-Jan-25	---	-30.0	---	-13.0	27-Jan-25	---	24.0	RH		
		15:32					17:58					



VOC - Station Logs

Station : South  
 Location : 725 Strathearne Avenue N, Hamilton  
 Period : January 1 to March 31, 2025  
 Quarter : Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01-Jan-25	32591	31-Dec-24	---	-30.0	---	-8.0	02-Jan-25	---	24.0	RH		
		16:40					16:10					
13-Jan-25	7849	10-Jan-25	---	-30.0	---	-9.5	14-Jan-25	---	24.0	RH		
		18:59					16:20					
25-Jan-25	23655	24-Jan-25	---	-30.0	---	-7.0	27-Jan-25	---	24.0	RH		
		14:44					14:05					



VOC - Station Logs

Station : New West  
 Location : 725 Strathearne Avenue N, Hamilton  
 Period : January 1 to March 31, 2025  
 Quarter : Q1

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As Found)	Comments
01-Jan-25	18252	31-Dec-25	---	-30.0	---	-4.0	02-Jan-25	---	24.0	RH		
		17:03					16:30					
13-Jan-25	18273	10-Jan-25	---	-28.0	---	-28.0	14-Jan-25	---	24.0	RH		The VOC monitor summa canister on pressure was - 28 inches Hg due to a VOC sampler timer valve failure. Resample on January 15, 2025.
		19:16					16:45					
2025-01-15 Resample	18273	14-Jan-25	---	-28.0	---	-4.0	20-Jan-25	---	24.0	RH		
		16:45					11:20					
25-Jan-25	7855	24-Jan-25	---	-30.0	---	-4.0	27-Jan-25	---	24.0	RH		
		15:08					17:42					