

REPORT

May 2024 Ambient Air Monitoring Report

Rain Carbon Canada Inc.

Submitted by:

Rain Carbon Canada Inc.

725 Strathearne Avenue North
Hamilton, Ontario
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June 2024

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 sixty-ninth monthly report submitted as part of the Rain Carbon ambient monitoring program and summarizes the measurements taken in May 2024.

The ambient air monitoring measurements for May 2024 follow the November 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 September 2022 and resumed monitoring on December 7, 2022.

This report includes the following information for measurements taken in May 2024:

- 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 evaluated by Rotek Environmental Inc. personnel, who are familiar with the MECP guidelines (Operations Manual for Air Quality Monitoring in Ontario, April 2018) for ambient air monitoring and collection of monitoring data. The laboratory analysis was conducted by Bureau Veritas Laboratories, which is ISO17025 compliant and accredited. The following supporting documents are provided:

- Laboratory Analysis in Appendix B;
- Chain of custody forms in Appendix C;
- Laboratory Certificates of Analysis in Appendix D; and

- Field notes in Appendix E.



Figure 1: Monitor and Source Locations



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



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



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

3.0 SUMMARY OF MONITORING EQUIPMENT CONDITIONS

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

For the May 2024 B(a)P monitoring results, all the recorded PUF volumes were inside the MECP specified range of between 293.6 m³ and 358.8 m³ over 24 hours except at the north monitor on the **May 6, 2024, MECP monitoring event** where the total volume recorded was **293.1 m³** and under the minimum volume requirement of **293.6 m³**.

All the benzene SUMMA canister pressures on receipt at the laboratory for analysis had acceptable pressures of receipt of between -1.6 inches Hg and -13.4 inches Hg except at the new west monitor on the **May 6, 2024, MECP monitoring event** where the new west monitor VOC sampler timer failed, and no sample was obtained. 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 ("Hg)

Monitoring Event Date	Benzene SUMMA Canister Pressure on Receipt (inches Hg)					New West	HAMN STN 29164
	East	North	Old West	South			
May 6	-11.4*	-7.13	-7.33	-7.13	Invalid Sample**	-9.16	
May 18	-12.6*	-8.3	-7.3	-7.9	-5.09	-10.8*	
May 30	-12.4*	-6.5	-7.3	-7.9	-5.3	-8.1	

*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 ³]					HAMN STN 29164
	East	North	Old West	South	New West	
May 6	316.3	293.1*	334.7	308.8	306.5	325.9
May 18	307.4	294.4	332.9	308.2	308.7	325.9
May 30	325.2	302.4	334.8	301.1	311.6	325.9

*Total PUF volume recorded was 293.1 m³ under the minimum volume requirement of 293.6 m³.

4.0 SUMMARY OF BENZENE MEASUREMENTS

Three sets of benzene measurements were taken in May 2024. The measurements range from 0.854 $\mu\text{g}/\text{m}^3$ to **111 $\mu\text{g}/\text{m}^3$** , with the highest value being detected at the **south monitor** during the May 18, 2024, MECP monitoring event.

The **May 18, 2024, MECP monitoring event south monitor** measurement of **111 $\mu\text{g}/\text{m}^3$ benzene** was above the 100 $\mu\text{g}/\text{m}^3$ benzene Upper Risk Threshold (URT).

All the remaining benzene concentrations measured during the three May 2024 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of 100 $\mu\text{g}/\text{m}^3$ benzene.

On the **May 6, 2024, MECP monitoring event** the new west monitor VOC sampler timer internal valve failed and no sample was obtained.

The new west monitor VOC sampler timer was then replaced prior to the **Saturday May 18, 2024, MECP monitoring event**.

Table 4: Summary of May 2024 Benzene Measurements

Monitoring Event Date	Measured Concentration [$\mu\text{g}/\text{m}^3$]					HAMN STN 29164
	East	North	Old West	South	New West	
May 6	30.0*	2.07	19.9	69.5	Invalid Sample**	0.854
May 18	5.04*	1.37	35.8	111	3.76	0.422
May 30	6.26*	2.04	12.1	77.7	2.65	0.488

*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 May 2024 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	
May 6	0.00171	0.00034*	0.00066	0.00091	0.00261	0.00049
May 18	< 0.0017	< 0.0012	< 0.0011	< 0.0011	< 0.00032	< 0.00098
May 30	0.00191	0.00046	0.00615	0.00179	0.00257	0.00025

*Total PUF volume recorded was 293.1 m^3 under the minimum volume requirement of 293.6 m^3 .

Three sets of B(a)P measurements were taken in May 2024. The B(a)P measurements ranged from 0.00025 $\mu\text{g}/\text{m}^3$ to 0.00615 $\mu\text{g}/\text{m}^3$ B(a)P, with the highest value being detected at the **old west monitor** during the **May 30, 2024, monitoring event**.

The MECP included a Measured Level Threshold in the B(a)P SSS as a trigger to evaluate progress on the B(a)P Action Plan. This level, set by the MECP, is not directly related to the ESDM Report results.

The B(a)P concentration of **0.00615 $\mu\text{g}/\text{m}^3$** measured at the old west monitor during the May 30, 2024, monitoring event was above the 0.00430 $\mu\text{g}/\text{m}^3$ Measured Level Threshold (MLT) which triggered the preparation of a May 2024 AML report, as set out in the B(a)P SSS. It was also above the 24-hr Upper Risk Threshold (URT) of 0.00500 $\mu\text{g}/\text{m}^3$ B(a)P.

All the other B(a)P concentrations measured during the three May 2024 monitoring events were below the 0.00430 $\mu\text{g}/\text{m}^3$ Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of 0.00500 $\mu\text{g}/\text{m}^3$ B(a)P.

All the B(a)P measurements are summarized in Table 5 above and copies of the laboratory analysis reports are provided in Appendix B.

6.0 CONCLUSIONS

All the B(a)P concentrations measured during the three May 2024 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, except for on the **May 30, 2024, MECP monitoring event** where the old west monitor measured 0.00615 $\mu\text{g}/\text{m}^3$ B(a)P which triggered the preparation of a May 2024 AML report, as set out in the B(a)P SSS. It was also above the 24-hr Upper Risk Threshold (URT) of 0.00500 $\mu\text{g}/\text{m}^3$ B(a)P.

The **May 18, 2024, MECP monitoring event south monitor** benzene measurement of **111 $\mu\text{g}/\text{m}^3$ benzene** was above the 100 $\mu\text{g}/\text{m}^3$ benzene Upper Risk Threshold (URT). All the remaining benzene concentrations measured during the three May 2024 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of 100 $\mu\text{g}/\text{m}^3$ benzene.

For the May 2024 B(a)P monitoring results, all the recorded PUF volumes were inside the MECP specified range of between 293.6 m^3 and 358.8 m^3 over 24 hours except at the north monitor on the **May 6, 2024, MECP monitoring event** where the total volume recorded was 293.1 m^3 and under the minimum volume requirement of **293.6 m^3** .

All the benzene SUMMA canister pressures on receipt at the laboratory for analysis in May 2024 had acceptable pressures of receipt of between -1.6 inches Hg and -13.4 inches Hg except for the new west monitor VOC sampler timer on the **May 6, 2024, MECP monitoring event** where the new west VOC sampler timer internal valve failed closed, and no sample was obtained.

Signature Page

Robin Hart

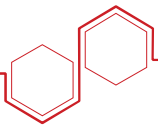
Robin S. Hart P.Eng.

Environmental Engineer

Rain Carbon Canada Inc.

APPENDIX A

Monitoring Plan



REPORT

Monitoring Plan for Benzo(a)pyrene and Benzene

Rain Carbon Canada Inc.

Submitted to:

Distribution List

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September 2020

Distribution List

1 PDF Copy - MECP, SDB, Toronto

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Figure 1 – Site Plan

Figure 2 – Environmental Monitor Locations

APPENDICES

APPENDIX A

Site Photos

1.0 INTRODUCTION

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

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

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

1.1 Description of the Facility

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

1.2 Description of the Process

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

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

1.3 Operating Schedule

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

2.0 AIR QUALITY MONITORING PROGRAM

2.1 Sampling Systems and Methodology

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

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

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

Table 2.1: Standard Operation Procedures for Monitoring

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

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

2.1.1 Calibration

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

The monitoring equipment is calibrated by Rotek.

2.2 Monitor Locations

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

Table 2.2: Monitoring Station Locations.

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

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

2.2.1 Siting Criteria

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

Table 2.3: Monitor Locations Comparison to MECP Siting Criteria.

Contaminant	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 ³ (0.1 ng/m ³)
Benzene	Mass spectrometry or other detector(s) such as flame ionization detector (FID) or electron capture detector (ECD)	0.16 µg/m ³

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 signature is written in a cursive style with a large, prominent 'R' and 'H'.

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

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period : May 2024
Sampling Methods : CARB429(ARBM1,M2) mod
Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter
Units
Analytical RDL
Annual Site Specific Standard

BaP
ng/m ³
0.315
0.8

Sample Date
6-May-24
18-May-24
30-May-24

Location					
East	North	Old West	South	New West	STN29164
1.71	0.34	0.66	0.91	2.61	0.49
< 1.7	< 1.2	< 1.1	< 1.1	< 0.32	< 0.98
1.91	0.46	6.15	1.79	2.57	0.25

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

1.77	0.67	2.64	1.27	1.83	0.735*
1.91	< 1.2	6.15	1.79	2.61	< 0.98*
< 1.7	0.34	0.66	0.91	< 0.32	0.49*
3	1	2	3	2	1*
3	3	3	3	3	3*
100	100	100	100	100	100*

*These results alone follow Rotek reporting protocol

Comments:

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period : May 2024
Sampling Methods : GC/MS (TO15)
Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter
Units
Analytical RDL
Annual Site Specific Standard

Benzene
µg/m ³
0.319
12.7

Sample Date
6-May-24
18-May-24
30-May-24

Location					
East	North	Old West	South	New West	STN29164
30.0	2.07	19.9	69.5	Invalid Sample	0.854
5.04	1.37	35.8	111	3.76	0.422
6.26	2.04	12.1	77.7	2.65	0.488

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

13.8	1.83	22.6	86.1	3.20	0.59*
30.0	2.07	35.8	111	3.76	0.854*
5.04	1.37	12.1	69.5	2.65	0.422*
1	0	2	3	0	0*
3	3	3	3	2	3*
100	100	100	100	100	100*

*These results alone follow Rotek reporting protocol

Comments:

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period : May 2024
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 ³
Analytical RDL	0.315
Annual Site Specific Standard	0.8

Sample Date	Location					
	East	North	Old West	South	New West	STN29164
06-May-24	---	---	---	---	---	0.49
18-May-24	---	---	---	---	---	0.15
30-May-24	---	---	---	---	---	0.15

Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.26
Monthly Max	0.00	0.00	0.00	0.00	0.00	0.49
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.15
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	3
% Valid Data	100	100	100	100	100	100

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

Comments

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period : May 2024
Sampling Methods : GC/MS (TO15)
Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

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

Sample Date	Location					
	East	North	Old West	South	New West	STN29164
06-May-24	---	---	---	---	---	0.85
18-May-24	---	---	---	---	---	0.42
30-May-24	---	---	---	---	---	0.49

Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.59
Monthly Max	0.00	0.00	0.00	0.00	0.00	0.85
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.42
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	3
% Valid Data	100	100	100	100	100	100

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

Comments

APPENDIX C

Chain of Custody Forms



6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlab.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CHAIN OF CUSTODY FORM - AIR

ANALYSIS REQUEST

CLIENT INFORMATION

SECTION

Company Name: Rain Carbon Canada Inc.
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																			
-----------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Field Sample ID	Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time	x														
East Monitor PAH May 6, 2024 ZAE-655-01	316.3		8/May/24	13:15	x														
North Monitor PAH May 6, 2024 ZAE-656-01	293.1		8/May/24	13:26	x														
Old West Monitor PAH May 6, 2024 ZAE-657-01	334.7		9/May/24	13:20	x														
South Monitor PAH May 6, 2024 ZAE-658-01	308.8		8/May/24	13:45	x														
New West Monitor PAH May 6, 2024 ZAE-659-01	306.5		9/May/24	12:54	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 _____

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

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ED

11 Hygiene" samples
the diameter of the



AIR

740 Cambello Rd
Mississauga Ontario, L5N 2L8
www.bvlab.com

Toll Free: 1-800-866-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

Chain of Custody Form - PUF / PAH

CAM FCD-01302/3
Page 1 of 2

INVOICE INFORMATION		REPORT INFORMATION		ANALYSIS REQUESTED												
Company Name:	Rotek Environmental Inc	Company Name:	Rotek Environmental	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/Aromatic Hydrocarbon Fractions	BTEXF1 (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:	Paul Daszko	Project Manager:	Paul Daszko													
Address:	15 Keefer Court Hamilton ON L8E 4V4	Address:	15 Keefer Court Hamilton ON L8E 4V4													
E-mail:	posre@rotekinc.com	E-mail:	jennifer.davies@rotekinc.com													
Ph:	905 573 9533	Ph:	905 573 9533													
Sampled by:	Robin Hart															

Field Sample ID	BV PUF ID #	Flow Regulator Serial #	Retrieval Date													
STN29164	06-May	PUF #1	YKN637-01	--	07-May											X
				--												
				--												
				--												
				--												
				--												
				--												

08-May-24 10:43
Cristina (Maria) Bacchus
C4D7821
SBS AIR-FRIDGE

TAT Requirement STD 10 Business day <input 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	PROJECT INFORMATION Project #: Name: Rain Carbon Canada Inc. PO #: 32609 Bureau Veritas Guide #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item:	REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations: ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other:	Notes 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 PROJECT SPECIFIC COMMENTS Analyse for BaP only in ng/m3. Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com
Client Signature: Paul Daszko	Received by: <i>[Signature]</i>	Date/Time: 08-May-24	Date/Time: 08/15/24 12:38

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

PAH Sample Submission Sheet

Sample Date	06-May-24
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:	daskko@rotekinc.com
Results to:	rsbin.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	06 May 2024	PUF #1 YKN637-01	YKN636-01	01 May 24 12:15	38	07 May 24 12:30	38	325.9	May 6 2024
Comment 1 :									
Comment 2 :									



6740 Campbell Rd
Mississauga Ontario L5N 2L6
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CHAIN OF CUSTODY FORM - AIR

ANALYSIS REQUEST

CLIENT INFORMATION
Company Name: Rain Carbon Canada Inc.
Project Manager: Robin Hart
e-mail: robin.hart@raincarbon.com
Address: 725 Strathearn Avenue
Hamilton, ON
Phone: 1-647-281-8094 Fax: _____
Sampled by: Robin Hart

Field Sample ID	Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time	x													
East Monitor PAH May 18, 2024 ZAE-655-01	307.4		21-May-24	11:08	x													
North Monitor PAH May 18, 2024 ZAE-656-01	294.4		21-May-24	11:24	x													
Old West Monitor PAH May 18, 2024 ZAE-657-01	332.9		21-May-24	12:10	x													
South Monitor PAH May 18, 2024 ZAE-658-01	308.2		21-May-24	11:40	x													
New West Monitor PAH May 18, 2024 ZAE-659-01	308.7		21-May-24	12:00	x													

22-May-24 16:28
Cristina (Maria) Bacchus
C4F3028

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: _____

Notes
 Please note if these samples are "Industrial" if submitting dustfall samples, please indicate jar opening in cm.
PROJECT SPECIFIC COMMENTS

Client Signature: Robin Hart
 Affiliation: Environmental Engineer
 Date/Time: 22-May-24 11:30 AM

Received by: *[Signature]*
 Affiliation: *[Signature]*
 Date/Time: *20/11/20 16:28 24/5/24*

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AIR

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www.raincarbon.com

Toll Free: 1-800-665-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

Chain of Custody Form - PUF / PAH

INVOICE INFORMATION		REPORT INFORMATION		ANALYSIS REQUESTED												
Company Name:	Rotek Environmental Inc	Company Name:	Rotek Environmental	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/monocyclic Aromatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOCs - please specify	PAHs on PUF by EPA TO13	DO NOT ANALYZE	CANISTERS NOT USED
Contact Name:	Paul Daszko	Project Manager:	Paul Daszko													
Address:	15 Keefer Court Hamilton ON L8E 4V4	Address:	15 Keefer Court Hamilton ON L8E 4V4													
E-mail:	poore@rotekinc.com	E-mail:	jennifer.davies@rotekinc.com													
Ph:	905 573 9533	Ph:	905 573 9533													
Sampled by:	Robin Hart															

Field Sample ID	BV PUF ID #	Flow Regulator Serial #	Retrieval Date														
STN29164	18-May	PUF #1	YWD750-01	---													

23-May-24 10:47
Cristina (Maria) Bacchus
C4F4951
IDK AIR-FRIDGE

TAT Requirement 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	PROJECT INFORMATION Project #: Name: Rain Carbon Canada Inc PO #: 32659 Bureau Veritas Quote # Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item	REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other	Notes 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 PROJECT SPECIFIC COMMENTS Analyse for BaP only in ng/m3. Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com
Client Signature: Paul Daszko	Received by: <i>[Signature]</i>	Date/Time: 22-May-24	Date/Time: 23-May-24 10:47

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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	18-May-24
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	Submission
				Install Time	inH2O	Removal Time	inH2O		m3
STN29194	18 May 2024	PUF #1 YWD780-01	YWD749-01	14-May-24	36	07-May-24	36	325.9	May 22 2024
				13:00		12:30			

Comment 1 :
Comment 2 :



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Mississauga Ontario ,L5N 2L8
www.bvlab.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CHAIN OF CUSTODY FORM - AIR

ANALYSIS REQUEST

CLIENT INFORMATION

Company Name: Rain Carbon Canada Inc.

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

SECTION

Field Sample ID	Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time	x											
East Monitor PAH May 30, 2024 ZAF-216-01	325.2		31-May-24	9:47	x											
North Monitor PAH May 30, 2024 ZAF-217-01	302.4		31-May-24	9:58	x											
Old West Monitor PAH May 30, 2024 ZAF-218-01	334.8		31-May-24	10:42	x											
South Monitor PAH May 30, 2024 ZAF-219-01	301.1		31-May-24	10:15	x											
New West Monitor PAH May 30, 2024 ZAF-220-01	311.6		31-May-24	10:29	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 _____

Notes
Please note if these samples are "Industrial" If submitting dustfall samples, please indicate jar opening in cm.

PROJECT SPECIFIC COMMENTS

Client Signature: Robin Hart

Affiliation: Environmental Engineer

Date/Time: 03-Jun-24 10:30 AM

Received by: _____

Affiliation: _____

Date/Time: _____

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ED

*11 Hygiene" samples
the diameter of the*



AIR

8740 Campbell Rd
Mississauga Ontario L5N 2L8
www.airlab.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

Chain of Custody Form - PUF / PAH

CAM FCD-01302 /3
Page 1 of 2

INVOICE INFORMATION		REPORT INFORMATION				ANALYSIS REQUESTED										CANISTERS NOT USED		
Company Name: Rotech Environmental Inc	Contact Name: Paul Daszko	Company Name: Rotech Environmental	Project Manager: Paul Daszko	Address: 15 Keefer Court Hamilton ON L8E 4V4	Address: 15 Keefer Court Hamilton ON L8E 4V4	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 (C8-C10) and F2 (C10-C16)	Selected VOC's - please specify		PAHs on PUF by EPA TO13	DO NOT ANALYZE
E-mail: poore@rotekinc.com	Ph: 905 573 9533	E-mail: jennifer.davies@rotekinc.com	Ph: 905 573 9533	Sampled by: Robin Hart	Field Sample ID	BY PUF ID #	Flow Regulator Serial #	Retrieval Date										
					STN29164	30-May	PUF #1	YWE625-01										
										04-Jun-24 10:00								
										Cristina (Maria) Bacchus								
										C4G7772								
										RUC	AIR-FRIDGE							
TAT Requirements		PROJECT INFORMATION		REPORTING REQUIREMENTS		Notes												
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"/>		Project #: Name: Rain Carbon Canada Inc PO #: 33869 Bureau Veritas Quote #: Bureau Veritas Order: Cristina Bacchus Task Order/Line Item:		EDO <input type="checkbox"/> Regulations: ON 153 <input type="checkbox"/> ON 416 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other <input type="checkbox"/>		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 PROJECT SPECIFIC COMMENTS Analyse for BaP only in ng/m3. Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com												
Client Signature: Paul Daszko		Received by: [Signature]		Date/Time: 2024/06/04 10:00		Date/Time: 04-Jun-24 10:00 AM												

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10/9/9
[Handwritten notes]



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Phone: (905) 817-5700
Fax: (905) 817-5777

Chain of Custody Form - Summa™ Canister

CAM FCD-01302 /3

Page _ 1 1

INVOICE INFORMATION		REPORT INFORMATION		ANALYSIS REQUESTED																			
Company Name:	Rain Carbon Canada Inc.	Company Name:	Rain Carbon Canada	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/IF1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other							CANISTERS NOT USED		
Contact Name:	Robin Hart	Project Manager:	Robin Hart																				
Address:	725 Strathearne Avenue Hamilton, ON	Address:	725 Strathearne Avenue Hamilton, ON																				
E-mail:	robin.hart@raincarbon.com	E-mail:	robin.hart@raincarbon.com																				
Ph:	1-647-281-8094	Ph:	1-647-281-8094																				
Sampled by:	Robin Hart																						

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date	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/IF1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other							CANISTERS NOT USED	
East Canister VOC May 6, 2024	14537		26-Apr-24										X									
North Canister VOC May 6, 2024	7910		26-Apr-24										X									
Old West Canister VOC May 6, 2024	7825		26-Apr-24										X									
South Canister VOC May 6, 2024	17189		26-Apr-24										X									
New West Canister VOC May 6, 2024	7909		26-Apr-24										X									

TAT Requirement 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	PROJECT INFORMATION Project #: Rain Carbon Canada Inc. Name: Robin Hart PO #: 4500610028 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item	REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other	Notes 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 PROJECT SPECIFIC COMMENTS PLEASE RETURN ALL UNUSED EQUIPMENT
Client Signature: Robin Hart	Received by: _____		
Date/Time: 10/May/24 15:00 PM	Date/Time: _____		

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

VOC Canister Sample Submission Sheet

Sample Date	06-May-24
Project Name	Rain Carbon Canada Inc.
Contact Name	Paul Daszko
Contact Number	905 531 2815

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

Station Number	Canister ID Number	Sample Date	Installation Date	Installation Time	Initial Pressure	Time On	Time Off	Elapsed Time	Final Pressure	Retrieval Date	Retrieval Time
		dd/mm/yy	dd/mm/yy	EST	inHg	EST	EST	Hours	inHg	dd/mm/yy	EST
STN29164	23747	06-May-24	01-May-24	12:30	-30.0	00:01	00:01	24.0	-8.5	07-May-24	12:45
		Comment 1 :									
		Comment 2 :									

08-May-24 10:43

Cristina (Maria) Bacchus
C4D7003

CAM FCD-01302 /3

Chain of Custody Form - Summa™ Canister

Page 2 of 2

INVOICE INFORMATION				ANALYSIS REQUESTED												
Company Name: Rrotek Environmental Inc		Company Name: Rrotek Environmental Inc		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)	BTX/Aromatic/Aliphatic Hydrocarbon Fractions	BTX/E1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other - Do Not Analyze	CANISTERS NOT USED	
Contact Name: Paul Daszko		Project Manager: Paul Daszko		Field Sample ID	Canister Serial #	Flow Regulator Serial #	Retrieval Date									
Address: 15 Keefer Court Hamilton ON L8E 4V4		Address: 15 Keefer Court Hamilton ON L8E 4V4		STN29164	06-May	23747	--	07-May								
E-mail: poore@rotekinc.com		E-mail: jennifer.davies@rotekinc.com														
Ph: 905 573 9533		Ph: 905 573 9533														
Sampled by: Robin Hart																
TAT Requirement 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				PROJECT INFORMATION Project #: Name: Rain Carbon Canada Inc PO #: 32989 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item:				REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations: ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other:				Notes 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 PROJECT SPECIFIC COMMENTS Please issue Summa canister pressure upon receipt. Analyse for Benzene only in ug/m ³ . Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com				
Client Signature: Paul Daszko				Received by: <i>[Signature]</i>												
Date/Time: 08-May-24				Date/Time: <i>[Signature]</i>												

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22-May-24 16:28

Cristina (Maria) Bacchus

C4F3307



Toll Free: 1-800-668-0839
Phone: (905) 817-5700
Fax: (905) 817-5777

Chain of Custody Form - Summa™ Canister

CAM FCD-01302.73

INVOICE INFL 1V AIR-001

INFORMATION

ANALYSIS REQUESTED

Company Name: Rain Carbon Canada Inc	Company Name: Rain Carbon Canada	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 TD15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	CANISTERS NOT USED
Contact Name: Robin Hart	Project Manager: Robin Hart												
Address: 725 Strathearn Avenue Hamilton, ON	Address: 725 Strathearn Avenue Hamilton, ON												
E-mail: robin.hart@raincarbon.com	E-mail: robin.hart@raincarbon.com												
Ph: 1-847-281-8004	Ph: 1-847-281-8094												
Sampled by: Robin Hart													

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date	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 TD15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	CANISTERS NOT USED
East Canister VOC May 18, 2024	14549		21-May-24												
North Canister VOC May 18, 2024	146		21-May-24										X		
Old West Canister VOC May 18, 2024	32582		21-May-24										X		
South Canister VOC May 18, 2024	253		21-May-24										X		
New West Canister VOC May 18, 2024	2753		21-May-24										X		

TAT Requirement 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	PROJECT INFORMATION Project #: Rain Carbon Canada Inc. Name: Robin Hart PO#: 4500610026 Bureau Veritas Quote #: _____ Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item: _____	REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations: ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other <input type="checkbox"/>	Notes 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 PROJECT SPECIFIC COMMENTS
---	---	---	--

Client Signature: Robin Hart	Received by: <u>VJH VJHUSHI PATIL</u>
Date/Time: 22-May-24 11:30 AM	Date/Time: 2024/05/22 16:28 20/09/20

PLEASE RETURN ALL UNUSED EQUIPMENT

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

VOC Canister Sample Submission Sheet

Sample Date	18-May-24
Project Name	Rain Carbon Canada Inc.
Contact Name	Paul Daszko
Contact Number	905 531 2815

Purchase Order Number	32689
Results to:	jennifer.davies@rotekinc.com
Results to:	dszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station Number	Canister ID Number	Sample Date	Installation Date	Installation Time	Initial Pressure	Time On	Time Off	Elapsed Time	Final Pressure	Retrieval Date	Retrieval Time
		dd/mm/yy	dd/mm/yy	EST	inHg	EST	EST	Hours	inHg	dd/mm/yy	EST
STN29164	1261	18-May-24	14-May-24	13:15:00 PM	-30.0	00:01	00:01	24.0	-11.0	21-May-24	12:45
Comment 1:											
Comment 2:											

AIR

23-May-24 10:47

Cristina (Maria) Bacchus

8740 Campobello
Mississauga, ON
www.rotekinc.com

C4F4170

CAM FCD-01302 (3)

Chain of Custody Form - Summa™ Canister

Page 2 of 2

INVOICE INFORMATION				ANALYSIS REQUESTED											
Company Name: Rrotek Environmental Inc	Company Name: Rrotek Environmental Inc	START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	STEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (CS-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other - Do Not Analyze	CANISTERS NOT USED		
Contact Name: Paul Daszko	Project Manager: Paul Daszko	Field Sample ID	Canister Serial #	Flow Regulator Serial #	Retrieval Date										
Address: 15 Keefer Court Hamilton ON L8E 4V4	Address: 15 Keefer Court Hamilton ON L8E 4V4	STN29164	1261	--	21-May						X				
E-mail: poore@rotekinc.com	E-mail: jennifer.davies@rotekinc.com														
Ph: 905 573 9533	Ph: 905 573 9533														
Sampled by: Robin Hart															

TAT Requirement 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	PROJECT INFORMATION Project # _____ Name: Rain Carbon Canada Inc PO # 32583 Bureau Veritas Quote # _____ Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item _____	REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other _____	Notes 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 PROJECT SPECIFIC COMMENTS Please leave Summa canister pressure upon receipt. Analyse for Benzene only in ug/m ³ . Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com
---	---	---	---

Client Signature: Paul Daszko	Received by: <i>[Signature]</i>
Date/Time: 22-May-24	Date/Time: <i>2024/05/23 10:47</i>

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6740 Campobello Rd
Mississauga Ontario ,L5N 2L8
www.bvlabs.com

Toll Free: 1-800-668-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

Chain of Custody Form - Summa™ Canister

CAM FCD-01302 /3

Page _ 1 1

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	ANALYSIS REQUESTED					CANISTERS NOT USED
Company Name:	Rain Carbon Canada Inc.	Company Name:	Rain Carbon Canada							FULL LIST OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/IF1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	
Contact Name:	Robin Hart	Project Manager:	Robin Hart												
Address:	725Strathearne Avenue Hamilton, ON	Address:	725Strathearne Avenue Hamilton, ON												
E-mail:	robin.hart@raincarbon.com	E-mail:	robin.hart@raincarbon.com												
Ph:	1-647-281-8094	Ph:	1-647-281-8094												
Sampled by:	Robin Hart														

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date	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/IF1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other					CANISTERS NOT USED
East Canister VOC May 30, 2024	27655		31-May-24										X						
North Canister VOC May 30, 2024	14252		31-May-24										X						
Old West Canister VOC May 30, 2024	27695		31-May-24										X						
South Canister VOC May 30, 2024	2746		31-May-24										X						
New West Canister VOC May 30, 2024	23748		31-May-24										X						

TAT Requirement 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	PROJECT INFORMATION Project #: Rain Carbon Canada Inc. Name: Robin Hart PO #: 4500610028 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item	REPORTING REQUIREMENTS EDD <input type="checkbox"/> Regulations ON 153 <input type="checkbox"/> ON 419 <input type="checkbox"/> BC CSR <input type="checkbox"/> Other	Notes 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 PROJECT SPECIFIC COMMENTS
Client Signature: Robin Hart Date/Time: May 31, 2024 10:30 AM		Received by: Date/Time:	PLEASE RETURN ALL UNUSED EQUIPMENT

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

VOC Canister Sample Submission Sheet

Sample Date	18-May-24
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	17169	30-May-24	27-May-24	16:00	-30.0	00:01	00:01	24.0	-8.5	31-May-24	15:30

Comment 1 :
Comment 2 :

04-Jun-24 10:00

Cristina (Maria) Bacchus
C4G6622



468-0639
817-5700
817-5777

Chain of Custody Form - Summa™ Canister

CAM FCC-01302 (3)

Page 2 of 2

INVOICE INFORMATION IV AIR-001

Company Name: Rotek Environmental Inc	Company Name: Rotek Environmental Inc
Contact Name: Paul Daszko	Project Manager: Paul Daszko
Address: 15 Keefer Court Hamilton ON L8E 4V4	Address: 15 Keefer Court Hamilton ON L8E 4V4
E-mail: poore@rotekinc.com	E-mail: jennifer.davies@rotekinc.com
Ph: 905 573 6533	Ph: 905 573 6533
Sampled by: Robin Hart	

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Retrieval Date	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
STN29164	30-May	17169	31-May										X		

TAT Requirement STD 10 Business day <input 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	PROJECT INFORMATION Project #: Name: Rain Carbon Canada Inc PO #: 32689 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item:	REPORTING REQUIREMENTS EDD: <input type="checkbox"/> Regulations: ON 153 <input type="checkbox"/> ON 410 <input checked="" type="checkbox"/> BC CSM <input type="checkbox"/> Other:	Notes 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 PROJECT SPECIFIC COMMENTS Please issue Summa canister pressure upon receipt. Analyse for Benzene only in ug/m ³ . Please copy results to yurk.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com
Client Signature: Paul Daszko	Received by: [Signature]	Date/Time: 04-Jun-24 / 10:00am	Date/Time: 2024/06/04 10:00

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APPENDIX D

Certificates of Analysis



Your P.O. #: 4500610028
 Your Project #: RAIN CARBON CANADA INC.
 Your C.O.C. #: n/a

Attention: Robin Hart

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

Report Date: 2024/05/28
 Report #: R8167157
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D9620

Received: 2024/05/09, 14:55

Sample Matrix: Puf And Filter
 # Samples Received: 5

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	5	2024/05/10	2024/05/10	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2024/05/12	2024/05/27	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2024/05/10		

Remarks:

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

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

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

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

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

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

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

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Naphthalene, 2-Methylnaphthalene, 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: 2024/05/28
Report #: R8167157
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D9620

Received: 2024/05/09, 14:55

Encryption Key

Cristina (Maria) Bacchus
Project Manager
28 May 2024 17:01:52

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

=====

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 Job #: C4D9620
 Report Date: 2024/05/28

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZCY619	ZCY620	ZCY621	ZCY622	
Sampling Date		2024/05/06	2024/05/06	2024/05/06	2024/05/06	
COC Number		n/a	n/a	n/a	n/a	
	UNITS	EAST MONITOR PAH MAY 6, 2024 PUF # 1 (ZAE655-01)	NORTH MONITOR PAH MAY 6, 2024 PUF # 2 (ZAE656-01)	OLD WEST MONITOR PUF # MAY 6,2024 PUF # 3 (ZAE657-01)	SOUTH MONITOR PAH MAY 6, 2024 PUF # 4 (ZAE658-01)	QC Batch
Volume	m3	316.3	293.1	334.7	308.8	ONSITE
QC Batch = Quality Control Batch						

Bureau Veritas ID		ZCY623	
Sampling Date		2024/05/06	
COC Number		n/a	
	UNITS	NEW WEST MONITOR PAH MAY 6,2024 PUF # 5 (ZAE659-01)	QC Batch
Volume	m3	306.5	ONSITE
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C4D9620
 Report Date: 2024/05/28

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		ZCY619	ZCY620	ZCY621	ZCY622		
Sampling Date		2024/05/06	2024/05/06	2024/05/06	2024/05/06		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	EAST MONITOR PAH MAY 6, 2024 PUF # 1 (ZAE655-01)	NORTH MONITOR PAH MAY 6, 2024 PUF # 2 (ZAE656-01)	OLD WEST MONITOR PAF MAY 6,2024 PUF # 3 (ZAE657-01)	SOUTH MONITOR PAH MAY 6, 2024 PUF # 4 (ZAE658-01)	RDL	QC Batch

Semivolatile Organics							
Benzo(a)pyrene	ug	0.54	0.10	0.22	0.28	0.10	9388591
Surrogate Recovery (%)							
D10-2-Methylnaphthalene	%	83	64	81	70		9388591
D10-Fluoranthene	%	83	86	82	70		9388591
D10-Fluorene (FS)	%	82	70	78	66		9388591
D10-Phenanthrene	%	81	78	78	70		9388591
D12-Benzo(a)anthracene	%	82	88	88	93		9388591
D12-Benzo(a)pyrene	%	83	81	82	84		9388591
D12-Benzo(b)fluoranthene	%	100	88	88	91		9388591
D12-Benzo(ghi)perylene	%	84	89	88	91		9388591
D12-Benzo(k)fluoranthene	%	74	87	87	90		9388591
D12-Chrysene	%	83	86	86	87		9388591
D12-Indeno(1,2,3-cd)pyrene	%	85	90	89	93		9388591
D12-Perylene	%	85	88	87	91		9388591
D14-Dibenzo(a,h)anthracene	%	85	89	89	93		9388591
D14-Terphenyl (FS)	%	76	82	76	66		9388591
D8-Acenaphthylene	%	95	77	89	74		9388591
D8-Naphthalene	%	75	61	66	46 (1)		9388591

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Recovery below control limit. Napthalene is not a parameter of concern.



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

Bureau Veritas ID		ZCY623		
Sampling Date		2024/05/06		
COC Number		n/a		
	UNITS	NEW WEST MONITOR PAH MAY 6,2024 PUF # 5 (ZAE659-01)	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	0.80	0.10	9388591
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	84		9388591
D10-Fluoranthene	%	85		9388591
D10-Fluorene (FS)	%	80		9388591
D10-Phenanthrene	%	81		9388591
D12-Benzo(a)anthracene	%	92		9388591
D12-Benzo(a)pyrene	%	92		9388591
D12-Benzo(b)fluoranthene	%	113		9388591
D12-Benzo(ghi)perylene	%	92		9388591
D12-Benzo(k)fluoranthene	%	82		9388591
D12-Chrysene	%	93		9388591
D12-Indeno(1,2,3-cd)pyrene	%	94		9388591
D12-Perylene	%	92		9388591
D14-Dibenzo(a,h)anthracene	%	95		9388591
D14-Terphenyl (FS)	%	76		9388591
D8-Acenaphthylene	%	93		9388591
D8-Naphthalene	%	54		9388591
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZCY619		ZCY620		ZCY621		
Sampling Date		2024/05/06		2024/05/06		2024/05/06		
COC Number		n/a		n/a		n/a		
	UNITS	EAST MONITOR PAH MAY 6, 2024 PUF # 1 (ZAE655-01)	RDL	NORTH MONITOR PAH MAY 6, 2024 PUF # 2 (ZAE656-01)	RDL	OLD WEST MONITOR PAH MAY 6,2024 PUF # 3 (ZAE657-01)	RDL	QC Batch

Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00171	0.00032	0.00034	0.00034	0.00066	0.00030	9386569
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

Bureau Veritas ID		ZCY622		ZCY623		
Sampling Date		2024/05/06		2024/05/06		
COC Number		n/a		n/a		
	UNITS	SOUTH MONITOR PAH MAY 6, 2024 PUF # 4 (ZAE658-01)	RDL	NEW WEST MONITOR PAH MAY 6,2024 PUF # 5 (ZAE659-01)	RDL	QC Batch

Calculated Parameters						
Benzo(a)pyrene	ug/m3	0.00091	0.00032	0.00261	0.00033	9386569
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C4D9620
Report Date: 2024/05/28

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		
9388591	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/05/27		67	%	50 - 150			
			D10-Fluoranthene	2024/05/27		90	%	50 - 150			
			D10-Phenanthrene	2024/05/27		78	%	50 - 150			
			D12-Benzo(a)anthracene	2024/05/27		93	%	50 - 150			
			D12-Benzo(a)pyrene	2024/05/27		89	%	50 - 150			
			D12-Benzo(b)fluoranthene	2024/05/27		96	%	50 - 150			
			D12-Benzo(ghi)perylene	2024/05/27		91	%	50 - 150			
			D12-Benzo(k)fluoranthene	2024/05/27		91	%	50 - 150			
			D12-Chrysene	2024/05/27		91	%	50 - 150			
			D12-Indeno(1,2,3-cd)pyrene	2024/05/27		92	%	50 - 150			
			D12-Perylene	2024/05/27		95	%	50 - 150			
			D14-Dibenzo(a,h)anthracene	2024/05/27		89	%	50 - 150			
			D8-Acenaphthylene	2024/05/27		76	%	50 - 150			
			D8-Naphthalene	2024/05/27		66	%	50 - 150			
			Benzo(a)pyrene	2024/05/27		88	%	50 - 150			
			9388591	CTC	RPD	Benzo(a)pyrene	2024/05/27	2.9		%	50
			9388591	CTC	Method Blank	D10-2-Methylnaphthalene	2024/05/27		86	%	50 - 150
D10-Fluoranthene	2024/05/27					107	%	50 - 150			
D10-Phenanthrene	2024/05/27					97	%	50 - 150			
D12-Benzo(a)anthracene	2024/05/27					105	%	50 - 150			
D12-Benzo(a)pyrene	2024/05/27					100	%	50 - 150			
D12-Benzo(b)fluoranthene	2024/05/27					107	%	50 - 150			
D12-Benzo(ghi)perylene	2024/05/27					101	%	50 - 150			
D12-Benzo(k)fluoranthene	2024/05/27					102	%	50 - 150			
D12-Chrysene	2024/05/27					102	%	50 - 150			
D12-Indeno(1,2,3-cd)pyrene	2024/05/27					102	%	50 - 150			
D12-Perylene	2024/05/27					106	%	50 - 150			
D14-Dibenzo(a,h)anthracene	2024/05/27					100	%	50 - 150			
D8-Acenaphthylene	2024/05/27					97	%	50 - 150			
D8-Naphthalene	2024/05/27					86	%	50 - 150			
Benzo(a)pyrene	2024/05/27					<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 Job #: C4D9620
Report Date: 2024/05/28

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, appearing to read "Angel Guerrero".

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

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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: 2024/05/28
 Report #: R8167156
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D7821

Received: 2024/05/08, 10:43

Sample Matrix: Puf And Filter
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	1	2024/05/08	2024/05/08	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2024/05/12	2024/05/28	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2024/05/08		

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: Naphthalene, 2-Methylnaphthalene, 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: 2024/05/28
Report #: R8167156
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D7821

Received: 2024/05/08, 10:43

Encryption Key



Bureau Veritas
28 May 2024 16:41:13

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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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 Job #: C4D7821
Report Date: 2024/05/28

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZCO944	
Sampling Date		2024/05/06	
COC Number		n/a	
	UNITS	STN29164 06-MAY PUF#1	QC Batch
Volume	m3	325.9	ONSITE
QC Batch = Quality Control Batch			



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

Bureau Veritas ID		ZCO944		
Sampling Date		2024/05/06		
COC Number		n/a		
	UNITS	STN29164 06-MAY PUF#1	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	0.16	0.10	9388591
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	80		9388591
D10-Fluoranthene	%	96		9388591
D10-Fluorene (FS)	%	88		9388591
D10-Phenanthrene	%	91		9388591
D12-Benzo(a)anthracene	%	95		9388591
D12-Benzo(a)pyrene	%	86		9388591
D12-Benzo(b)fluoranthene	%	95		9388591
D12-Benzo(ghi)perylene	%	92		9388591
D12-Benzo(k)fluoranthene	%	92		9388591
D12-Chrysene	%	93		9388591
D12-Indeno(1,2,3-cd)pyrene	%	93		9388591
D12-Perylene	%	92		9388591
D14-Dibenzo(a,h)anthracene	%	92		9388591
D14-Terphenyl (FS)	%	88		9388591
D8-Acenaphthylene	%	94		9388591
D8-Naphthalene	%	77		9388591
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



Bureau Veritas Job #: C4D7821
 Report Date: 2024/05/28

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

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZCO944		
Sampling Date		2024/05/06		
COC Number		n/a		
	UNITS	STN29164 06-MAY PUF#1	RDL	QC Batch
Calculated Parameters				
Benzo(a)pyrene	ng/m3	0.49	0.31	9381528
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



Bureau Veritas Job #: C4D7821
Report Date: 2024/05/28

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.



QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits		
9388591	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/05/27		67	%	50 - 150			
			D10-Fluoranthene	2024/05/27		90	%	50 - 150			
			D10-Phenanthrene	2024/05/27		78	%	50 - 150			
			D12-Benzo(a)anthracene	2024/05/27		93	%	50 - 150			
			D12-Benzo(a)pyrene	2024/05/27		89	%	50 - 150			
			D12-Benzo(b)fluoranthene	2024/05/27		96	%	50 - 150			
			D12-Benzo(ghi)perylene	2024/05/27		91	%	50 - 150			
			D12-Benzo(k)fluoranthene	2024/05/27		91	%	50 - 150			
			D12-Chrysene	2024/05/27		91	%	50 - 150			
			D12-Indeno(1,2,3-cd)pyrene	2024/05/27		92	%	50 - 150			
			D12-Perylene	2024/05/27		95	%	50 - 150			
			D14-Dibenzo(a,h)anthracene	2024/05/27		89	%	50 - 150			
			D8-Acenaphthylene	2024/05/27		76	%	50 - 150			
			D8-Naphthalene	2024/05/27		66	%	50 - 150			
			Benzo(a)pyrene	2024/05/27		88	%	50 - 150			
			9388591	CTC	RPD	Benzo(a)pyrene	2024/05/27	2.9		%	50
			9388591	CTC	Method Blank	D10-2-Methylnaphthalene	2024/05/27		86	%	50 - 150
D10-Fluoranthene	2024/05/27					107	%	50 - 150			
D10-Phenanthrene	2024/05/27					97	%	50 - 150			
D12-Benzo(a)anthracene	2024/05/27					105	%	50 - 150			
D12-Benzo(a)pyrene	2024/05/27					100	%	50 - 150			
D12-Benzo(b)fluoranthene	2024/05/27					107	%	50 - 150			
D12-Benzo(ghi)perylene	2024/05/27					101	%	50 - 150			
D12-Benzo(k)fluoranthene	2024/05/27					102	%	50 - 150			
D12-Chrysene	2024/05/27					102	%	50 - 150			
D12-Indeno(1,2,3-cd)pyrene	2024/05/27					102	%	50 - 150			
D12-Perylene	2024/05/27					106	%	50 - 150			
D14-Dibenzo(a,h)anthracene	2024/05/27					100	%	50 - 150			
D8-Acenaphthylene	2024/05/27					97	%	50 - 150			
D8-Naphthalene	2024/05/27					86	%	50 - 150			
Benzo(a)pyrene	2024/05/27					<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 Job #: C4D7821
Report Date: 2024/05/28

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:

A handwritten signature in black ink, appearing to read "Angel Guerrero".

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: 2024/06/07
 Report #: R8181894
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3028

Received: 2024/05/22, 16:28

Sample Matrix: Puf And Filter
 # Samples Received: 5

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	5	2024/05/23	2024/05/23	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2024/05/25	2024/05/30	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2024/05/23		

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: Naphthalene, 2-Methylnaphthalene, 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: 2024/06/07
Report #: R8181894
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3028

Received: 2024/05/22, 16:28

Encryption Key

Cristina (Maria) Bacchus
Project Manager
07 Jun 2024 17:22:50

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 Job #: C4F3028
 Report Date: 2024/06/07

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZFS441	ZFS442	ZFS443	ZFS444	
Sampling Date		2024/05/18	2024/05/18	2024/05/18	2024/05/18	
COC Number		n/a	n/a	n/a	n/a	
	UNITS	EAST MONITOR PAH MAY 18 ZAF037-01	NORTH MONITOR PAH MAY 18 ZAF038-01	OLD WEST MONITOR PAY MAY 18 ZAF039-01	SOUTH MONITOR PAH MAY 18 ZAF040-01	QC Batch
Volume	m3	307.4	294.4	332.9	308.2	ONSITE
QC Batch = Quality Control Batch						

Bureau Veritas ID		ZFS445	
Sampling Date		2024/05/18	
COC Number		n/a	
	UNITS	NEW WEST MONITOR PAH MAY 18 ZAF041-01	QC Batch
Volume	m3	308.7	ONSITE
QC Batch = Quality Control Batch			



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

Bureau Veritas ID		ZFS441		ZFS442		ZFS443		
Sampling Date		2024/05/18		2024/05/18		2024/05/18		
COC Number		n/a		n/a		n/a		
	UNITS	EAST MONITOR PAH MAY 18 ZAF037-01	RDL	NORTH MONITOR PAH MAY 18 ZAF038-01	RDL	OLD WEST MONITOR PAY MAY 18 ZAF039-01	RDL	QC Batch

Semivolatile Organics								
Benzo(a)pyrene	ug	<0.020 (1)	0.52	<0.020 (1)	0.34	<0.020 (1)	0.38	9413991
Surrogate Recovery (%)								
D10-2-Methylnaphthalene	%	83		81		67		9413991
D10-Fluoranthene	%	91		90		67		9413991
D10-Fluorene (FS)	%	90		90		70		9413991
D10-Phenanthrene	%	88		88		67		9413991
D12-Benzo(a)anthracene	%	87		88		83		9413991
D12-Benzo(a)pyrene	%	82		85		81		9413991
D12-Benzo(b)fluoranthene	%	104		102		95		9413991
D12-Benzo(ghi)perylene	%	83		87		79		9413991
D12-Benzo(k)fluoranthene	%	80		80		75		9413991
D12-Chrysene	%	94		89		89		9413991
D12-Indeno(1,2,3-cd)pyrene	%	85		88		82		9413991
D12-Perylene	%	76		85		77		9413991
D14-Dibenzo(a,h)anthracene	%	84		86		82		9413991
D14-Terphenyl (FS)	%	80		80		62		9413991
D8-Acenaphthylene	%	95		97		76		9413991
D8-Naphthalene	%	76		81		41 (2)		9413991

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.
 (2) Recovery below control limit, indicating possible biased low of the corresponding native. However Naphthalene is not a parameter of concern.



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

Bureau Veritas ID		ZFS444		ZFS445		
Sampling Date		2024/05/18		2024/05/18		
COC Number		n/a		n/a		
	UNITS	SOUTH MONITOR PAH MAY 18 ZAF040-01	RDL	NEW WEST MONITOR PAH MAY 18 ZAF041-01	RDL	QC Batch
Semivolatile Organics						
Benzo(a)pyrene	ug	<0.020 (1)	0.34	0.040	0.10	9413991
Surrogate Recovery (%)						
D10-2-Methylnaphthalene	%	86		76		9413991
D10-Fluoranthene	%	87		82		9413991
D10-Fluorene (FS)	%	86		78		9413991
D10-Phenanthrene	%	84		80		9413991
D12-Benzo(a)anthracene	%	87		94		9413991
D12-Benzo(a)pyrene	%	81		82		9413991
D12-Benzo(b)fluoranthene	%	95		92		9413991
D12-Benzo(ghi)perylene	%	83		90		9413991
D12-Benzo(k)fluoranthene	%	77		90		9413991
D12-Chrysene	%	85		90		9413991
D12-Indeno(1,2,3-cd)pyrene	%	85		92		9413991
D12-Perylene	%	81		90		9413991
D14-Dibenzo(a,h)anthracene	%	83		90		9413991
D14-Terphenyl (FS)	%	82		76		9413991
D8-Acenaphthylene	%	95		84		9413991
D8-Naphthalene	%	72		62		9413991
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.						



CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZFS441		ZFS442		ZFS443		
Sampling Date		2024/05/18		2024/05/18		2024/05/18		
COC Number		n/a		n/a		n/a		
	UNITS	EAST MONITOR PAH MAY 18 ZAF037-01	RDL	NORTH MONITOR PAH MAY 18 ZAF038-01	RDL	OLD WEST MONITOR PAY MAY 18 ZAF039-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	<0.0017	0.0017	<0.0012	0.0012	<0.0011	0.0011	9410631
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

Bureau Veritas ID		ZFS444		ZFS445		
Sampling Date		2024/05/18		2024/05/18		
COC Number		n/a		n/a		
	UNITS	SOUTH MONITOR PAH MAY 18 ZAF040-01	RDL	NEW WEST MONITOR PAH MAY 18 ZAF041-01	RDL	QC Batch
Calculated Parameters						
Benzo(a)pyrene	ug/m3	<0.0011	0.0011	<0.00032	0.00032	9410631
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C4F3028
Report Date: 2024/06/07

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			
9413991	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/05/30		58	%	50 - 150			
			D10-Fluoranthene	2024/05/30		90	%	50 - 150			
			D10-Phenanthrene	2024/05/30		80	%	50 - 150			
			D12-Benzo(a)anthracene	2024/05/30		92	%	50 - 150			
			D12-Benzo(a)pyrene	2024/05/30		86	%	50 - 150			
			D12-Benzo(b)fluoranthene	2024/05/30		92	%	50 - 150			
			D12-Benzo(ghi)perylene	2024/05/30		90	%	50 - 150			
			D12-Benzo(k)fluoranthene	2024/05/30		92	%	50 - 150			
			D12-Chrysene	2024/05/30		92	%	50 - 150			
			D12-Indeno(1,2,3-cd)pyrene	2024/05/30		92	%	50 - 150			
			D12-Perylene	2024/05/30		92	%	50 - 150			
			D14-Dibenzo(a,h)anthracene	2024/05/30		88	%	50 - 150			
			D8-Acenaphthylene	2024/05/30		64	%	50 - 150			
			D8-Naphthalene	2024/05/30		56	%	50 - 150			
			Benzo(a)pyrene	2024/05/30		88	%	50 - 150			
			9413991	CTC	RPD	Benzo(a)pyrene	2024/05/30	2.9		%	50
			9413991	CTC	Method Blank	D10-2-Methylnaphthalene	2024/05/30		54	%	50 - 150
D10-Fluoranthene	2024/05/30					86	%	50 - 150			
D10-Phenanthrene	2024/05/30					74	%	50 - 150			
D12-Benzo(a)anthracene	2024/05/30					90	%	50 - 150			
D12-Benzo(a)pyrene	2024/05/30					84	%	50 - 150			
D12-Benzo(b)fluoranthene	2024/05/30					90	%	50 - 150			
D12-Benzo(ghi)perylene	2024/05/30					86	%	50 - 150			
D12-Benzo(k)fluoranthene	2024/05/30					88	%	50 - 150			
D12-Chrysene	2024/05/30					88	%	50 - 150			
D12-Indeno(1,2,3-cd)pyrene	2024/05/30					88	%	50 - 150			
D12-Perylene	2024/05/30					88	%	50 - 150			
D14-Dibenzo(a,h)anthracene	2024/05/30					84	%	50 - 150			
D8-Acenaphthylene	2024/05/30					62	%	50 - 150			
D8-Naphthalene	2024/05/30					54	%	50 - 150			
Benzo(a)pyrene	2024/05/30					0.020, RDL=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 Job #: C4F3028
Report Date: 2024/06/07

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:

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

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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: 2024/06/07
 Report #: R8181856
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F4951

Received: 2024/05/23, 10:47

Sample Matrix: Puf And Filter
 # Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	1	2024/05/23	2024/05/23	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2024/05/25	2024/05/30	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2024/05/23		

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: Naphthalene, 2-Methylnaphthalene, 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: 2024/06/07
Report #: R8181856
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F4951

Received: 2024/05/23, 10:47

Encryption Key



Bureau Veritas
07 Jun 2024 16:26:41

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 Job #: C4F4951
Report Date: 2024/06/07

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZGC218	
Sampling Date		2024/05/18	
COC Number		n/a	
	UNITS	STN29164 19-MAY PUF#1	QC Batch
Volume	m3	325.9	ONSITE
QC Batch = Quality Control Batch			



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

Bureau Veritas ID		ZGC218		
Sampling Date		2024/05/18		
COC Number		n/a		
	UNITS	STN29164 19-MAY PUF#1	RDL	QC Batch
Benzo(a)pyrene	ug	<0.020 (1)	0.32	9413991
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	82		9413991
D10-Fluoranthene	%	98		9413991
D10-Fluorene (FS)	%	88		9413991
D10-Phenanthrene	%	93		9413991
D12-Benzo(a)anthracene	%	89		9413991
D12-Benzo(a)pyrene	%	84		9413991
D12-Benzo(b)fluoranthene	%	94		9413991
D12-Benzo(ghi)perylene	%	86		9413991
D12-Benzo(k)fluoranthene	%	85		9413991
D12-Chrysene	%	87		9413991
D12-Indeno(1,2,3-cd)pyrene	%	88		9413991
D12-Perylene	%	85		9413991
D14-Dibenzo(a,h)anthracene	%	86		9413991
D14-Terphenyl (FS)	%	86		9413991
D8-Acenaphthylene	%	97		9413991
D8-Naphthalene	%	82		9413991
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.				



Bureau Veritas Job #: C4F4951
Report Date: 2024/06/07

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

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZGC218		
Sampling Date		2024/05/18		
COC Number		n/a		
	UNITS	STN29164 19-MAY PUF#1	RDL	QC Batch
Benzo(a)pyrene	ng/m3	<0.98	0.98	9410631
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



Bureau Veritas Job #: C4F4951
Report Date: 2024/06/07

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.



QUALITY ASSURANCE REPORT

QA/QC												
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits				
9413991	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/05/30		58	%	50 - 150				
			D10-Fluoranthene	2024/05/30		90	%	50 - 150				
			D10-Phenanthrene	2024/05/30		80	%	50 - 150				
			D12-Benzo(a)anthracene	2024/05/30		92	%	50 - 150				
			D12-Benzo(a)pyrene	2024/05/30		86	%	50 - 150				
			D12-Benzo(b)fluoranthene	2024/05/30		92	%	50 - 150				
			D12-Benzo(ghi)perylene	2024/05/30		90	%	50 - 150				
			D12-Benzo(k)fluoranthene	2024/05/30		92	%	50 - 150				
			D12-Chrysene	2024/05/30		92	%	50 - 150				
			D12-Indeno(1,2,3-cd)pyrene	2024/05/30		92	%	50 - 150				
			D12-Perylene	2024/05/30		92	%	50 - 150				
			D14-Dibenzo(a,h)anthracene	2024/05/30		88	%	50 - 150				
			D8-Acenaphthylene	2024/05/30		64	%	50 - 150				
			D8-Naphthalene	2024/05/30		56	%	50 - 150				
			Benzo(a)pyrene	2024/05/30		88	%	50 - 150				
			9413991	CTC	RPD	Benzo(a)pyrene	2024/05/30	2.9		%	50	
			9413991	CTC	Method Blank	D10-2-Methylnaphthalene	2024/05/30		54	%	50 - 150	
D10-Fluoranthene	2024/05/30					86	%	50 - 150				
D10-Phenanthrene	2024/05/30					74	%	50 - 150				
D12-Benzo(a)anthracene	2024/05/30					90	%	50 - 150				
D12-Benzo(a)pyrene	2024/05/30					84	%	50 - 150				
D12-Benzo(b)fluoranthene	2024/05/30					90	%	50 - 150				
D12-Benzo(ghi)perylene	2024/05/30					86	%	50 - 150				
D12-Benzo(k)fluoranthene	2024/05/30					88	%	50 - 150				
D12-Chrysene	2024/05/30					88	%	50 - 150				
D12-Indeno(1,2,3-cd)pyrene	2024/05/30					88	%	50 - 150				
D12-Perylene	2024/05/30					88	%	50 - 150				
D14-Dibenzo(a,h)anthracene	2024/05/30					84	%	50 - 150				
D8-Acenaphthylene	2024/05/30					62	%	50 - 150				
D8-Naphthalene	2024/05/30					54	%	50 - 150				
Benzo(a)pyrene	2024/05/30					0.020,			ug			
								RDL=0.10				

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 Job #: C4F4951
Report Date: 2024/06/07

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:

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: 2024/06/17
 Report #: R8195877
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G6785

Received: 2024/06/03, 16:34

Sample Matrix: Puf And Filter
 # Samples Received: 5

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	5	2024/06/04	2024/06/17	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2024/06/05	2024/06/10	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2024/06/04		

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: Naphthalene, 2-Methylnaphthalene, 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. #: na

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

Report Date: 2024/06/17
Report #: R8195877
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G6785

Received: 2024/06/03, 16:34

Encryption Key

Julian Tong
Project Manager Assistant
18 Jun 2024 09:54:22

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 Job #: C4G6785
 Report Date: 2024/06/17

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZIQ105	ZIQ106	ZIQ107	ZIQ108	
Sampling Date		2024/05/31	2024/05/31	2024/05/31	2024/05/31	
COC Number		na	na	na	na	
	UNITS	EAST MONITOR PAH MAY30,2024 ZAF-216-01	NORTH MONITOR PAH MAY30,2024 ZAF-217-01	OLD WEST MONITOR PAH MAY30,2024 ZAF-218-01	SOUTH MONITOR PAH MAY30,2024 ZAF-219-01	QC Batch
Volume	m3	325.2	302.4	334.8	301.1	ONSITE
QC Batch = Quality Control Batch						

Bureau Veritas ID		ZIQ109	
Sampling Date		2024/05/31	
COC Number		na	
	UNITS	NEW WEST MONITOR PAH MAY30,2024 ZAF-220-01	QC Batch
Volume	m3	311.6	ONSITE
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C4G6785
 Report Date: 2024/06/17

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		ZIQ105	ZIQ106	ZIQ107	ZIQ108		
Sampling Date		2024/05/31	2024/05/31	2024/05/31	2024/05/31		
COC Number		na	na	na	na		
	UNITS	EAST MONITOR PAH MAY30,2024 ZAF-216-01	NORTH MONITOR PAH MAY30,2024 ZAF-217-01	OLD WEST MONITOR PAH MAY30,2024 ZAF-218-01	SOUTH MONITOR PAH MAY30,2024 ZAF-219-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.620	0.140	2.06	0.540	0.050	9435189
Surrogate Recovery (%)							
D12-Benzo(a)pyrene	%	81	81	80	74		9435189
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

Bureau Veritas ID		ZIQ109		
Sampling Date		2024/05/31		
COC Number		na		
	UNITS	NEW WEST MONITOR PAH MAY30,2024 ZAF-220-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	0.800	0.050	9435189
Surrogate Recovery (%)				
D12-Benzo(a)pyrene	%	79		9435189
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



Bureau Veritas Job #: C4G6785
 Report Date: 2024/06/17

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

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZIQ105		ZIQ106		ZIQ107		
Sampling Date		2024/05/31		2024/05/31		2024/05/31		
COC Number		na		na		na		
	UNITS	EAST MONITOR PAH MAY30,2024 ZAF-216-01	RDL	NORTH MONITOR PAH MAY30,2024 ZAF-217-01	RDL	OLD WEST MONITOR PAH MAY30,2024 ZAF-218-01	RDL	QC Batch

Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00191	0.00015	0.00046	0.00017	0.00615	0.00015	9432867
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

Bureau Veritas ID		ZIQ108		ZIQ109		
Sampling Date		2024/05/31		2024/05/31		
COC Number		na		na		
	UNITS	SOUTH MONITOR PAH MAY30,2024 ZAF-219-01	RDL	NEW WEST MONITOR PAH MAY30,2024 ZAF-220-01	RDL	QC Batch

Calculated Parameters						
Benzo(a)pyrene	ug/m3	0.00179	0.00017	0.00257	0.00016	9432867
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C4G6785
Report Date: 2024/06/17

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 Job #: C4G6785
 Report Date: 2024/06/17

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
	9435189	CTC	Spiked Blank	D12-Benzo(a)pyrene	2024/06/10		102	%	50 - 150
				Benzo(a)pyrene	2024/06/10		118	%	50 - 150
	9435189	CTC	RPD	Benzo(a)pyrene	2024/06/10	8.8		%	50
	9435189	CTC	Method Blank	D12-Benzo(a)pyrene	2024/06/10		86	%	50 - 150
				Benzo(a)pyrene	2024/06/10	<0.23 (1)		ug	

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

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

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

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

(1) An unusual contamination event was observed in the extraction QCs. Client samples were not affected. Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.



Bureau Veritas Job #: C4G6785
Report Date: 2024/06/17

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:

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

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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: 2024/06/19
 Report #: R8198491
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G7772

Received: 2024/06/04, 10:00

Sample Matrix: Puf And Filter
 # Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	1	2024/06/04	2024/06/04	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2024/06/05	2024/06/10	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2024/06/04		

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.

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: Naphthalene, 2-Methylnaphthalene, 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: 2024/06/19
Report #: R8198491
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G7772

Received: 2024/06/04, 10:00

Encryption Key



Bureau Veritas
19 Jun 2024 16:08:48

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 Job #: C4G7772
Report Date: 2024/06/19

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZIV469	
Sampling Date		2024/05/30	
COC Number		n/a	
	UNITS	STN29164 30-MAY PUF#1	QC Batch
Volume	m3	325.9	ONSITE
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C4G7772
 Report Date: 2024/06/19

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

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

Bureau Veritas ID		ZIV469		
Sampling Date		2024/05/30		
COC Number		n/a		
	UNITS	STN29164 30-MAY PUF#1	RDL	QC Batch
Benzo(a)pyrene	ug	0.080	0.050	9435189
Surrogate Recovery (%)				
D12-Benzo(a)pyrene	%	79		9435189
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



Bureau Veritas Job #: C4G7772
Report Date: 2024/06/19

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

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZIV469		
Sampling Date		2024/05/30		
COC Number		n/a		
	UNITS	STN29164 30-MAY PUF#1	RDL	QC Batch
Benzo(a)pyrene	ng/m3	0.25	0.15	9432867
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



Bureau Veritas Job #: C4G7772
Report Date: 2024/06/19

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.



QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	9435189	CTC	Spiked Blank	D12-Benzo(a)pyrene	2024/06/10		102	%	50 - 150
				Benzo(a)pyrene	2024/06/10		118	%	50 - 150
	9435189	CTC	RPD	Benzo(a)pyrene	2024/06/10	8.8		%	50
	9435189	CTC	Method Blank	D12-Benzo(a)pyrene	2024/06/10		86	%	50 - 150
				Benzo(a)pyrene	2024/06/10	<0.23 (1)		ug	

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

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

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

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

(1) An unusual contamination event was observed in the extraction QCs. Client samples were not affected. Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.



Bureau Veritas Job #: C4G7772
Report Date: 2024/06/19

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:

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

Anastassia Hamanov, Scientific Specialist

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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: 2024/05/24
 Report #: R8161117
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D9608

Received: 2024/05/09, 16:22

Sample Matrix: Air
 # Samples Received: 4

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Analyzed		
Canister Pressure (TO-15)	4	N/A	2024/05/14 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	4	N/A	2024/05/14 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: 2024/05/24
Report #: R8161117
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D9608

Received: 2024/05/09, 16:22

Encryption Key

Cristina (Maria) Bacchus
Project Manager
24 May 2024 16:33:59

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 Job #: C4D9608
 Report Date: 2024/05/24

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

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZCY560	ZCY561	ZCY562	ZCY564	
Sampling Date		2024/04/26	2024/04/26	2024/04/26	2024/04/26	
COC Number		NA	NA	NA	NA	
	UNITS	SOUTH CANISTER VOC MAY 6, 2024/14537	OLD WEST CANISTER VOC MAY 6, 2024/7910	NORTH CANISTER VOC MAY 6, 2024/7825	EAST CANISTER VOC MAY 6, 2024/7909	QC Batch
Volatile Organics						
Pressure on Receipt	psig	(-3.5)	(-3.6)	(-3.5)	(-5.6)	9393729
QC Batch = Quality Control Batch						



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZCY560			ZCY561				
Sampling Date		2024/04/26			2024/04/26				
COC Number		NA			NA				
	UNITS	SOUTH CANISTER VOC MAY 6, 2024/14537	ug/m3	DL (ug/m3)	OLD WEST CANISTER VOC MAY 6, 2024/7910	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics									
Benzene	ppbv	21.8	69.5	0.319	6.21	0.10	19.9	0.319	9391785
Surrogate Recovery (%)									
Bromochloromethane	%	89	N/A	N/A	93		N/A	N/A	9391785
D5-Chlorobenzene	%	88	N/A	N/A	91		N/A	N/A	9391785
Difluorobenzene	%	91	N/A	N/A	93		N/A	N/A	9391785
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Bureau Veritas ID		ZCY562			ZCY564				
Sampling Date		2024/04/26			2024/04/26				
COC Number		NA			NA				
	UNITS	NORTH CANISTER VOC MAY 6, 2024/7825	ug/m3	DL (ug/m3)	EAST CANISTER VOC MAY 6, 2024/7909	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics									
Benzene	ppbv	0.65	2.07	0.319	9.40	0.10	30.0	0.319	9391785
Surrogate Recovery (%)									
Bromochloromethane	%	89	N/A	N/A	91		N/A	N/A	9391785
D5-Chlorobenzene	%	87	N/A	N/A	91		N/A	N/A	9391785
Difluorobenzene	%	90	N/A	N/A	92		N/A	N/A	9391785
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



Bureau Veritas Job #: C4D9608
Report Date: 2024/05/24

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 Job #: C4D9608
 Report Date: 2024/05/24

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
9391785	NS2	Spiked Blank	Bromochloromethane	2024/05/14		103	%	60 - 140	
			D5-Chlorobenzene	2024/05/14		103	%	60 - 140	
			Difluorobenzene	2024/05/14		105	%	60 - 140	
			Benzene	2024/05/14		104	%	70 - 130	
9391785	NS2	Method Blank	Bromochloromethane	2024/05/14		109	%	60 - 140	
			D5-Chlorobenzene	2024/05/14		104	%	60 - 140	
			Difluorobenzene	2024/05/14		112	%	60 - 140	
			Benzene	2024/05/14	<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 Job #: C4D9608
Report Date: 2024/05/24

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

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Your P.O. #: 32669
 Your Project #: 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: 2024/05/21
 Report #: R8156954
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D7003

Received: 2024/05/08, 10:43

Sample Matrix: Air
 # Samples Received: 1

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Date Analyzed		
Canister Pressure (TO-15)	1	N/A	2024/05/10 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/05/10 BRL SOP-00304	EPA TO-15 m

Remarks:

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

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

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

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

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



Your P.O. #: 32669
Your Project #: 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: 2024/05/21
Report #: R8156954
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4D7003

Received: 2024/05/08, 10:43

Encryption Key



Bureau Veritas
21 May 2024 16:04:10

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 Job #: C4D7003
Report Date: 2024/05/21

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

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZCK835	
Sampling Date		2024/05/06	
COC Number		NA	
	UNITS	STN29164 06-MAY	QC Batch
Pressure on Receipt	psig	(-4.5)	9387383
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C4D7003
 Report Date: 2024/05/21

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

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZCK835				
Sampling Date		2024/05/06				
COC Number		NA				
	UNITS	STN29164 06-MAY	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.27	0.10	0.854	0.319	9387384
Surrogate Recovery (%)						
Bromochloromethane	%	75		N/A	N/A	9387384
D5-Chlorobenzene	%	73		N/A	N/A	9387384
Difluorobenzene	%	77		N/A	N/A	9387384
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



Bureau Veritas Job #: C4D7003
Report Date: 2024/05/21

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 Job #: C4D7003
 Report Date: 2024/05/21

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
9387384	DM2	Spiked Blank	Bromochloromethane	2024/05/10		103	%	60 - 140
			D5-Chlorobenzene	2024/05/10		99	%	60 - 140
			Difluorobenzene	2024/05/10		103	%	60 - 140
			Benzene	2024/05/10		103	%	70 - 130
9387384	DM2	Method Blank	Bromochloromethane	2024/05/10		87	%	60 - 140
			D5-Chlorobenzene	2024/05/10		85	%	60 - 140
			Difluorobenzene	2024/05/10		89	%	60 - 140
			Benzene	2024/05/10	<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 Job #: C4D7003
Report Date: 2024/05/21

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:

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

Melanie Mabini, Team Leader

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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: 2024/06/05
 Report #: R8177739
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3307

Received: 2024/05/22, 16:28

Sample Matrix: Air
 # Samples Received: 5

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Analyzed		
Canister Pressure (TO-15)	5	N/A	2024/05/27 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2024/05/27 BRL SOP-00304	EPA TO-15 m

Remarks:

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

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

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

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

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



Your 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: 2024/06/05
Report #: R8177739
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F3307

Received: 2024/05/22, 16:28

Encryption Key

Cristina (Maria) Bacchus
Project Manager
05 Jun 2024 16:35:47

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 Job #: C4F3307
 Report Date: 2024/06/05

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

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZFT831	ZFT832	ZFT833	ZFT834	
Sampling Date		2024/05/21	2024/05/21	2024/05/21	2024/05/21	
COC Number		NA	NA	NA	NA	
	UNITS	EAST CANISTER VOC MAY 18, 2024/14549	NORTH CANISTER VOC MAY 18, 2024/146	OLD WEST CANISTER VOC MAY 18, 2024/32582	SOUTH CANISTER VOC MAY 18, 2024/253	QC Batch
Volatile Organics						
Pressure on Receipt	psig	(-6.2)	(-4.1)	(-3.6)	(-3.9)	9417736
QC Batch = Quality Control Batch						

Bureau Veritas ID		ZFT835	
Sampling Date		2024/05/21	
COC Number		NA	
	UNITS	NEW WEST CANISTER VOC MAY 18, 2024/2763	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-2.5)	9417736
QC Batch = Quality Control Batch			



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZFT831				ZFT832				
Sampling Date		2024/05/21				2024/05/21				
COC Number		NA				NA				
	UNITS	EAST CANISTER VOC MAY 18, 2024/14549	RDL	ug/m3	DL (ug/m3)	NORTH CANISTER VOC MAY 18, 2024/146	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics										
Benzene	ppbv	1.58	0.17	5.04	0.543	0.43	0.10	1.37	0.319	9415184

Surrogate Recovery (%)										
Bromochloromethane	%	95		N/A	N/A	97		N/A	N/A	9415184
D5-Chlorobenzene	%	83		N/A	N/A	86		N/A	N/A	9415184
Difluorobenzene	%	93		N/A	N/A	96		N/A	N/A	9415184

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable

Bureau Veritas ID		ZFT833				ZFT834				
Sampling Date		2024/05/21				2024/05/21				
COC Number		NA				NA				
	UNITS	OLD WEST CANISTER VOC MAY 18, 2024/32582	ug/m3	DL (ug/m3)		SOUTH CANISTER VOC MAY 18, 2024/253	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics										
Benzene	ppbv	11.2	35.8	0.319		34.7	0.10	111	0.319	9415184

Surrogate Recovery (%)										
Bromochloromethane	%	98		N/A	N/A	96		N/A	N/A	9415184
D5-Chlorobenzene	%	87		N/A	N/A	86		N/A	N/A	9415184
Difluorobenzene	%	97		N/A	N/A	95		N/A	N/A	9415184

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable



Bureau Veritas Job #: C4F3307
 Report Date: 2024/06/05

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		ZFT835				
Sampling Date		2024/05/21				
COC Number		NA				
	UNITS	NEW WEST CANISTER VOC MAY 18, 2024/2763	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	1.18	0.10	3.76	0.319	9415184
Surrogate Recovery (%)						
Bromochloromethane	%	96		N/A	N/A	9415184
D5-Chlorobenzene	%	85		N/A	N/A	9415184
Difluorobenzene	%	95		N/A	N/A	9415184
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



Bureau Veritas Job #: C4F3307
Report Date: 2024/06/05

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

GENERAL COMMENTS

Sample ZFT831 [EAST CANISTER VOC MAY 18, 2024/14549] : Sample was pressurized due to high vacuum in can. The DL's were adjusted accordingly.

Results relate only to the items tested.



Bureau Veritas Job #: C4F3307
 Report Date: 2024/06/05

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
9415184	TIM	Spiked Blank	Bromochloromethane	2024/05/27		103	%	60 - 140
			D5-Chlorobenzene	2024/05/27		102	%	60 - 140
			Difluorobenzene	2024/05/27		102	%	60 - 140
			Benzene	2024/05/27		101	%	70 - 130
9415184	TIM	Method Blank	Bromochloromethane	2024/05/27		99	%	60 - 140
			D5-Chlorobenzene	2024/05/27		86	%	60 - 140
			Difluorobenzene	2024/05/27		97	%	60 - 140
			Benzene	2024/05/27	<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 Job #: C4F3307
Report Date: 2024/06/05

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 "AMacfarlane". The signature is written in a cursive style and is positioned above a horizontal line.

Anke Macfarlane, Laboratory Manager, VOC

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



Your P.O. #: 32669
 Your Project #: RAIN CARBON CANADA INC
 Your C.O.C. #: NA

Attention: Ruetgers list

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

Report Date: 2024/06/05
 Report #: R8177779
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F4170

Received: 2024/05/23, 10:47

Sample Matrix: Air
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Canister Pressure (TO-15)	1	N/A	2024/05/27	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/05/27	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
Your Project #: 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: 2024/06/05
Report #: R8177779
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4F4170

Received: 2024/05/23, 10:47

Encryption Key



Bureau Veritas
05 Jun 2024 12:30:52

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 Job #: C4F4170
Report Date: 2024/06/05

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

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZFY367	
Sampling Date		2024/05/18	
COC Number		NA	
	UNITS	STN29164 12-APR	QC Batch
Pressure on Receipt	psig	(-5.3)	9417623
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C4F4170
 Report Date: 2024/06/05

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

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZFY367			ZFY367				
Sampling Date		2024/05/18			2024/05/18				
COC Number		NA			NA				
	UNITS	STN29164 12-APR	ug/m3	DL (ug/ m3)	STN29164 12-APR Lab-Dup	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.13	0.422	0.319	0.12	0.10	0.396	0.319	9417647
Surrogate Recovery (%)									
Bromochloromethane	%	73	N/A	N/A	72		N/A	N/A	9417647
D5-Chlorobenzene	%	79	N/A	N/A	79		N/A	N/A	9417647
Difluorobenzene	%	77	N/A	N/A	77		N/A	N/A	9417647
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									



Bureau Veritas Job #: C4F4170
Report Date: 2024/06/05

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.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9417647	LSY	Spiked Blank	Bromochloromethane	2024/05/27		107	%	60 - 140
			D5-Chlorobenzene	2024/05/27		106	%	60 - 140
			Difluorobenzene	2024/05/27		107	%	60 - 140
			Benzene	2024/05/27		106	%	70 - 130
9417647	LSY	Method Blank	Bromochloromethane	2024/05/27		95	%	60 - 140
			D5-Chlorobenzene	2024/05/27		91	%	60 - 140
			Difluorobenzene	2024/05/27		99	%	60 - 140
			Benzene	2024/05/27	<0.10		ppbv	
9417647	LSY	RPD [ZFY367-01]	Benzene	2024/05/27	6.3		%	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 Job #: C4F4170
Report Date: 2024/06/05

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:

A handwritten signature in black ink that reads "AMacfarlane".

Anke Macfarlane, Laboratory Manager, VOC

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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: 2024/06/17
 Report #: R8194695
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G6465

Received: 2024/06/03, 15:52

Sample Matrix: Air
 # Samples Received: 5

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Date Analyzed		
Canister Pressure (TO-15)	5	N/A	2024/06/05 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2024/06/05 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.

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: 2024/06/17
Report #: R8194695
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G6465

Received: 2024/06/03, 15:52

Encryption Key

Cristina (Maria) Bacchus
Project Manager
17 Jun 2024 14:25:01

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 Job #: C4G6465
 Report Date: 2024/06/17

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

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZIO691	ZIO692	ZIO693	ZIO694	
Sampling Date		2024/05/31	2024/05/31	2024/05/31	2024/05/31	
COC Number		NA	NA	NA	NA	
	UNITS	EAST CANISTER VOC MAY 30, 2024/27655	NORTH CANISTER VOC MAY 30, 2024/14252	OLD WEST CANISTER VOC MAY 30, 2024/27695	SOUTH CANISTER VOC MAY 30, 2024/2746	QC Batch

Volatile Organics						
Pressure on Receipt	psig	(-6.1)	(-3.2)	(-3.6)	(-3.9)	9435378
QC Batch = Quality Control Batch						

Bureau Veritas ID		ZIO695	
Sampling Date		2024/05/31	
COC Number		NA	
	UNITS	NEW WEST CANISTER VOC MAY 30, 2024/23748	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-2.6)	9435378
QC Batch = Quality Control Batch			



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZIO691				ZIO692				
Sampling Date		2024/05/31				2024/05/31				
COC Number		NA				NA				
	UNITS	EAST CANISTER VOC MAY 30, 2024/27655	RDL	ug/m3	DL (ug/m3)	NORTH CANISTER VOC MAY 30, 2024/14252	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics										
Benzene	ppbv	1.96	0.18	6.26	0.575	0.64	0.10	2.04	0.319	9435379

Surrogate Recovery (%)										
Bromochloromethane	%	81		N/A	N/A	76		N/A	N/A	9435379
D5-Chlorobenzene	%	75		N/A	N/A	70		N/A	N/A	9435379
Difluorobenzene	%	80		N/A	N/A	75		N/A	N/A	9435379

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable

Bureau Veritas ID		ZIO693				ZIO694				
Sampling Date		2024/05/31				2024/05/31				
COC Number		NA				NA				
	UNITS	OLD WEST CANISTER VOC MAY 30, 2024/27695	ug/m3	DL (ug/m3)		SOUTH CANISTER VOC MAY 30, 2024/2746	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics										
Benzene	ppbv	3.78	12.1	0.319		24.3	0.10	77.7	0.319	9435379

Surrogate Recovery (%)										
Bromochloromethane	%	75		N/A	N/A	76		N/A	N/A	9435379
D5-Chlorobenzene	%	70		N/A	N/A	70		N/A	N/A	9435379
Difluorobenzene	%	75		N/A	N/A	77		N/A	N/A	9435379

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable



Bureau Veritas Job #: C4G6465
 Report Date: 2024/06/17

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		ZIO695				
Sampling Date		2024/05/31				
COC Number		NA				
	UNITS	NEW WEST CANISTER VOC MAY 30, 2024/23748	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	0.83	0.10	2.65	0.319	9435379
Surrogate Recovery (%)						
Bromochloromethane	%	77		N/A	N/A	9435379
D5-Chlorobenzene	%	71		N/A	N/A	9435379
Difluorobenzene	%	78		N/A	N/A	9435379
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



Bureau Veritas Job #: C4G6465
Report Date: 2024/06/17

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

GENERAL COMMENTS

Sample ZIO691 [EAST CANISTER VOC MAY 30, 2024/27655] : Sample was pressurized due to high vacuum in can. The DL's were adjusted accordingly.

Results relate only to the items tested.



Bureau Veritas Job #: C4G6465
 Report Date: 2024/06/17

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
9435379	DM2	Spiked Blank	Bromochloromethane	2024/06/05		119	%	60 - 140	
			D5-Chlorobenzene	2024/06/05		116	%	60 - 140	
			Difluorobenzene	2024/06/05		118	%	60 - 140	
			Benzene	2024/06/05		95	%	70 - 130	
9435379	DM2	Method Blank	Bromochloromethane	2024/06/05		90	%	60 - 140	
			D5-Chlorobenzene	2024/06/05		85	%	60 - 140	
			Difluorobenzene	2024/06/05		90	%	60 - 140	
			Benzene	2024/06/05	<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 Job #: C4G6465
Report Date: 2024/06/17

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:

Anke Macfarlane, Laboratory Manager, VOC

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Your P.O. #: 32669
 Your Project #: 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: 2024/06/17
 Report #: R8194697
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G6622

Received: 2024/06/04, 10:00

Sample Matrix: Air
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Canister Pressure (TO-15)	1	N/A	2024/06/05	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/06/05	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
Your Project #: 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: 2024/06/17
Report #: R8194697
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4G6622

Received: 2024/06/04, 10:00

Encryption Key



Bureau Veritas
17 Jun 2024 11:42:47

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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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 Job #: C4G6622
Report Date: 2024/06/17

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

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZIP438	
Sampling Date		2024/05/30	
COC Number		NA	
	UNITS	STN29164 30-MAY/17189	QC Batch
Pressure on Receipt	psig	(-4.0)	9435378
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C4G6622
 Report Date: 2024/06/17

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

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZIP438				
Sampling Date		2024/05/30				
COC Number		NA				
	UNITS	STN29164 30-MAY/17189	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.15	0.10	0.488	0.319	9435379
Surrogate Recovery (%)						
Bromochloromethane	%	74		N/A	N/A	9435379
D5-Chlorobenzene	%	67		N/A	N/A	9435379
Difluorobenzene	%	73		N/A	N/A	9435379
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



Bureau Veritas Job #: C4G6622
Report Date: 2024/06/17

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 Job #: C4G6622
 Report Date: 2024/06/17

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
9435379	DM2	Spiked Blank	Bromochloromethane	2024/06/05		119	%	60 - 140	
			D5-Chlorobenzene	2024/06/05		116	%	60 - 140	
			Difluorobenzene	2024/06/05		118	%	60 - 140	
			Benzene	2024/06/05		95	%	70 - 130	
9435379	DM2	Method Blank	Bromochloromethane	2024/06/05		90	%	60 - 140	
			D5-Chlorobenzene	2024/06/05		85	%	60 - 140	
			Difluorobenzene	2024/06/05		90	%	60 - 140	
			Benzene	2024/06/05	<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 Job #: C4G6622
Report Date: 2024/06/17

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:

A handwritten signature in black ink that reads 'AMacfarlane'.

Anke Macfarlane, Laboratory Manager, VOC

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

APPENDIX E

Field Notes

