



REPORT

**B(a)P Monitoring Quarterly Written Summary Report**  
*Ruetgers Canada Inc.*

Submitted to:

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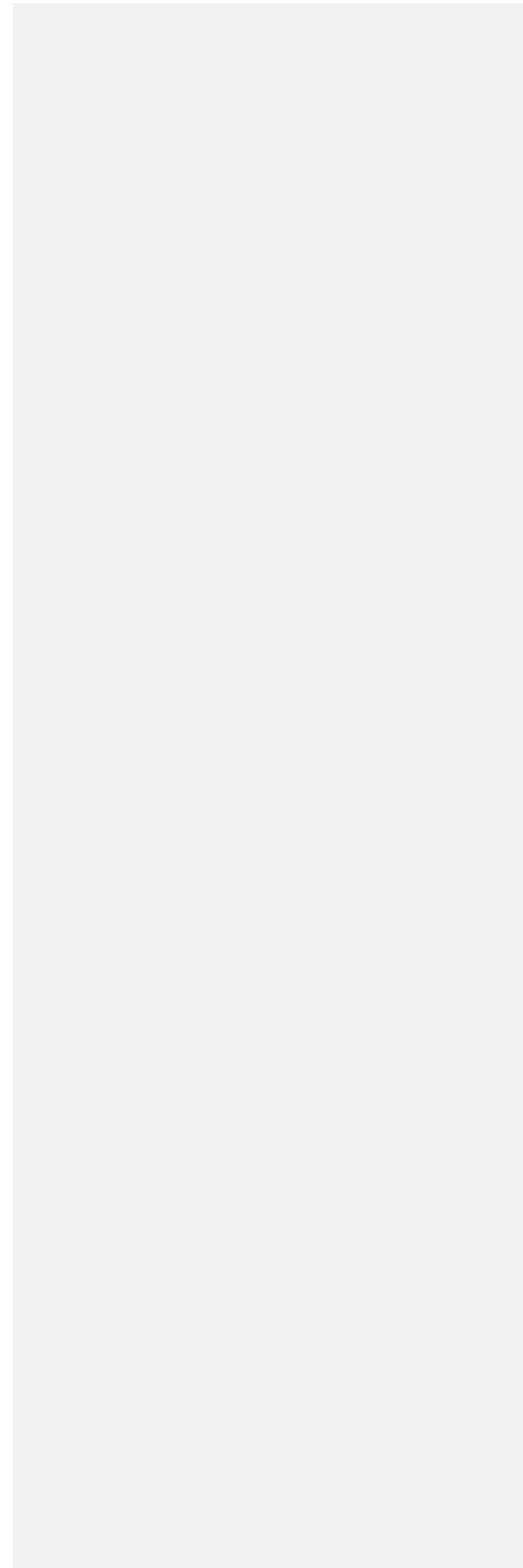
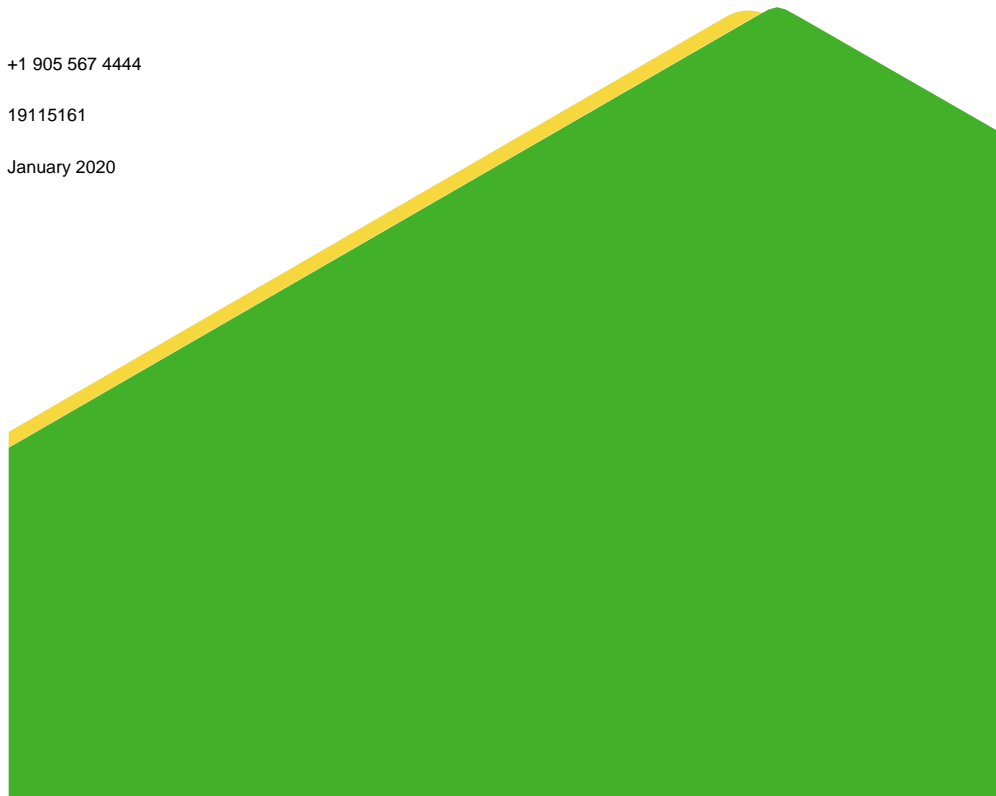
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January 2020



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## 1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by Ruetgers Canada Inc. (Ruetgers) to prepare quarterly written summary reports of benzo(a)pyrene [B(a)P] ambient monitoring measurements for the coal tar and petroleum material processing plant located at 725 Strathearne Avenue N., Hamilton, Ontario (the Facility). This report summarizes the measurements taken at the Facility during the fourth quarter of 2019 (October to December) as part of the Ruetgers ambient monitoring program.

For October, the ambient monitoring measurements were taken in accordance with the April 2018 Monitoring Plan for B(a)P and Benzene (the Plan) approved by the Ontario Ministry of the Environment, Conservation and Parks (MECP) on May 15, 2018. Ruetgers submitted a Monitoring Plan Amendment to the MECP which was approved on November 12, 2019. The November and December monitoring measurements were taken during the transition of the East and North monitors to their new locations.

The Plan and monitoring program have been developed as per the conditions of the Site-Specific Standard (SSS) approvals for B(a)P (no. 201-17-rv0) and benzene (no. 202-17-order-rv0) issued to the Facility on November 21, 2017.

## 2.0 B(A)P MONITORING

The monitoring program for B(a)P consists of setting up a polyurethane foam (PUF) polyaromatic hydrocarbon (PAH) sampling system at four locations at the Facility. Samples are collected over a 24-hour period. Air quality data acquisition and instrument performance were evaluated by Rotek Environmental Inc. personnel. The laboratory analysis was conducted by Bureau Veritas Laboratories, which is ISO17025 compliant and accredited. Additional details on the locations of the monitoring stations are provided in the monthly Ambient Air Quality Monitoring Reports (AAMRs) prepared for monitoring events during October to December 2019.

B(a)P measurements from October, November, and December 2019 are summarized in Table 1. Copies of the laboratory analysis reports may be found in the AAMRs for October, November, and December.

**Table 1: Summary of the October, November, and December B(a)P Measurements**

Date	Measured Concentration [ $\mu\text{g}/\text{m}^3$ ]					
	Old East - Top of Tank-36	New East – South of Tank-36	North - MCC	New North - MCC	West - Tank-77 Platform	South - Berm
October 12-13, 2019	0.00296	—	0.00156	—	0.00164	*Below the detection limit
October 24-25, 2019	0.00219	—	0.00183	—	0.00038	0.00040
November 5-6, 2019	—	—	0.00290	—	*Below the detection limit	*Below the detection limit
November 17-18, 2019	*Below the detection limit	—	0.00290	—	0.00092	0.00122
November 29-30, 2019	—	0.00117	0.00202	—	0.00255	0.00109
December 11-12, 2019	—	0.00313	—	0.00651	0.00761	*Below the detection limit
December 23-24, 2019	—	0.00122	—	0.00149	0.00067	0.00154

\*The detection limit ranges from  $<0.00030 \mu\text{g}/\text{m}^3$  to  $<0.00031 \mu\text{g}/\text{m}^3$

### 2.1 B(a)P Measurements Comparison to MECP Thresholds

During the fourth quarter of 2019, there were two monitors that measured B(a)P concentrations above the Upper Risk Threshold of  $0.005 \mu\text{g}/\text{m}^3$ , during the December 11-12 event at the New North and West monitors.

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. There were two measurements above the 0.0043 µg/m<sup>3</sup> Measured Level threshold during the fourth quarter of 2019, during the December 11-12 event. This triggered the preparation of a report, as required by the B(a)P SSS. As per Condition 2 of the SSS, Ruetgers prepared a report that included information on the causes of measurements being above the Measured Level threshold and prevention of future occurrences. Ruetgers completed the first phase of an engineering study to assess the effectiveness of all actions completed to date, and submitted this Effectiveness Study to the MECP on October 3, 2019.



**Commented [FC1]:** Has the next phase of this engineering study been done? Is there any update for the 4<sup>th</sup> quarter of 2019?

### 3.0 CONCLUSIONS

This report summarizes the measurements taken at the Facility during the fourth quarter of 2019 (October - December) as per the Plan and the conditions of the Site-Specific Standard (SSS) approvals for B(a)P (no. 201-17-rv0) and benzene (no. 202-17-order-rv0) issued to the Facility on November 21, 2017.

During the fourth quarter of 2019, there were two measurements above the 0.0043 µg/m<sup>3</sup> Measured Level threshold, during the December 11-12 event. This triggered the preparation of a report, as set out in the B(a)P SSS. As per Condition 2 of the SSS, Ruetgers prepared a report during the fourth quarter that included information on the causes and prevention of future measurements being above the Measured Level threshold.

## Signature Page

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