REPORT

DURHAM YORK ENERGY CENTRE

COURTICE, ONTARIO

2025 Q3 AMBIENT AIR QUALITY MONITORING REPORT

RWDI #2600650

December 15, 2025

SUBMITTED TO

The Director of Waste Management Services

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TABLE OF CONTENTS

1 INTRODUCTION 1

1.1 Sampling Locations 2

2 SAMPLING METHODOLOGY 3

2.1 Nitrogen Oxide Analyzers 3

2.2 Sulphur Dioxide Analyzers 4

2.3 SHARP 5030 $PM_{2.5}$ Analyzers 5

2.4 TSP High Volume Air Samplers 5

2.5 Polyurethane Foam Samplers 6

2.6 Meteorological Towers 6

3 AIR QUALITY CRITERIA AND STANDARDS 6

4 MECP AUDITS 7

5 SUMMARY OF AMBIENT MEASUREMENTS 7

5.1 Meteorological Station Results 7
5.1.1 Courtice Station Results 7
5.1.2 Rundle Road Station Results 9

5.2 NO_X, SO_2 and $PM_{2.5}$ Summary Table Results 9

5.3 Oxides of Nitrogen Results 11
5.3.1 Courtice Station Results 11
5.3.2 Rundle Road Station Results 11

5.4 Sulphur Dioxide Results 12
5.4.1 Courtice Station Results 12
5.4.2 Rundle Road Station Results 13

5.5 Fine Particulate Matter ($PM_{2.5}$) Results 15
5.5.1 Courtice Station Results 15
5.5.2 Rundle Road Station Results 15

5.6 TSP and Metals Hi-Vol Results 16
5.6.1 Courtice Station Results 16

5.6.1 Rundle Road Station Results 18

5.7 PAH Results 19
5.7.1 Courtice Station Results 19
5.7.2 Rundle Road Station Results 21

5.8 Dioxin and Furan Results 22
5.8.1 Courtice Station Results 22
5.8.2 Rundle Road Station Results 23

6 DATA REQUESTS 24

6.1 Continuous Monitoring 24

6.2 Discrete Monitoring 24

7 CONCLUSIONS 25

8 REFERENCES 25

9 GENERAL STATEMENT OF LIMITATIONS 25

LIST OF TABLES

Table 1: $PM_{2.5}$, SO_2 and NO_2 CAAQS' by Implementation Year
Table 2: Hourly Statistics from the Courtice WPCP Meteorological Station
Table 3: Hourly Statistics from the Rundle Road Meteorological Station
Table 4: Summary of Courtice Station Continuous Data Statistics
Table 5: Summary of Rundle Road Station Continuous Data Statistics
Table 6: Summary of Exceedance Statistics
Table 7: Summary of TSP Sampler Courtice Station
Table 8: Summary of TSP Sampler Rundle Road Station
Table 9: Statistics Summary of PAH Results for Courtice Station
Table 10: Statistics Summary of PAH Results for Rundle Road Station
Table 11: Courtice Station Q3 Monitoring Results for Dioxins and Furans
Table 12: Rundle Road Station Q3 Monitoring Results for Dioxins and Furans

LIST OF FIGURES

Figure 1: DYEC Site and Ambient Monitoring Station Locations
Figure 2: Rundle Road Station
Figure 3: Courtice Station
Figure 4: Courtice and Rundle Road Wind Roses
Figure 5: Pollution Roses of Hourly Average NO_2 Concentrations – July to September 2025
Figure 6: Pollution Roses of Hourly Average SO_2 Concentrations – July to September 2025
Figure 7: Pollution Roses of 5-minute Average SO_2 Concentrations >67 ppb – July to September 2025
Figure 8: Pollution Roses of Hourly Average $PM_{2.5}$ Concentrations – July to September 2025

LIST OF APPENDICES

Appendix A1: 2025 Summary Statistics for Q3
A2: 2025 Q3 Station Courtice Monitoring Results for $PM_{2.5}$
A3: 2025 Q3 Station Rundle Road Monitoring Results for $PM_{2.5}$
A4: 2025 Q3 Station Courtice Monitoring Results for NO_X
A5: 2025 Q3 Station Rundle Road Monitoring Results for NO_X
A6: 2025 Q3 Station Courtice Monitoring Results for NO
A7: 2025 Q3 Station Rundle Road Monitoring Results for NO
A8: 2025 Q3 Station Courtice Monitoring Results for NO_2
A9: 2025 Q3 Station Rundle Road Monitoring Results for NO_2
A10: 2025 Q3 Station Courtice Monitoring Results for SO_2
A11: 2025 Q3 Station Rundle Road Monitoring Results for SO_2
A12: 2025 Q3 Courtice Meteorological Station Windspeed Data Summary
A13: 2025 Q3 Rundle Road Meteorological Station Windspeed Data Summary
A14: 2025 Q3 Courtice Meteorological Station Wind Direction Data Summary
A15: 2025 Q3 Rundle Road Meteorological Station Wind Direction Data Summary
A16: 2025 Q3 Courtice Meteorological Station Temperature Data Summary
A17: 2025 Q3 Rundle Road Meteorological Station Temperature Data Summary
A18: 2025 Q3 Courtice Meteorological Station Relative Humidity Summary
A19: 2025 Q3 Rundle Road Meteorological Station Relative Humidity Summary
A20: 2025 Q3 Courtice Meteorological Station Precipitation Data Summary
A21: 2025 Q3 Rundle Road Meteorological Station Precipitation Data Summary
A22: 2025 Q3 Courtice Meteorological Station Pressure Data Summary

Appendix B1: Summary of Sample Flow Rate and Sample Duration for Dioxins & Furans
B2: 2025 Courtice Station Q3 Monitoring Results for Dioxins & Furans
B3: 2025 Rundle Road Station Q3 Monitoring Results for Dioxins & Furans
B4: Summary of Sample Flow Rate and Sample Duration for Polycyclic Aromatic Hydrocarbons (PAH)
B5: Courtice Station Q3 Monitoring Results for PAH's
B6: Rundle Road Station Q3 Monitoring Results for PAH's
B7: Summary of Sample Flow Rate and Sample Duration for Total Suspended Particulate (TSP) and Metals
B8: 2025 Courtice Station Q3 Monitoring Results for TSP and Metals
B9: 2025 Rundle Road Station Q3 Monitoring Results for TSP and Metals
Appendix C: 2025 Q3 Courtice and Rundle Road Station Zero Graphs
Appendix D1: Q3 Edit Log for $PM_{2.5}$ at Courtice Station
D2: Q3 Edit Log for $PM_{2.5}$ at Rundle Road Station
D3: Q3 Edit Log for NO_X at Courtice Station
D4: Q3 Edit Log for NO_X at Rundle Road Station
D5: Q3 Edit Log for SO_2 at Courtice Station
D6: Q3 Edit Log for SO_2 at Rundle Road Station
D7: Q3 Edit Log for Meteorological Parameters at Courtice Station
D8: Q3 Edit Log for Meteorological Parameters at Rundle Road Station
D9: Q3 Edit Log for Discrete Sampling at Courtice Station
D10: Q3 Edit Log for Discrete Sampling at Rundle Road Station
Appendix E1: 10-min SO_2 Running Average Exceedances at the Courtice Station – July
E2: 10-min SO_2 Running Average Exceedances at the Courtice Station – August
E3: 10-min SO_2 Running Average Exceedances at the Courtice Station – September
E4: 1-hour SO_2 Running Average Exceedances at the Courtice Station – July
E5: 1-hour SO_2 Running Average Exceedances at the Courtice Station – August
E6: 1-hour SO_2 Running Average Exceedances at the Courtice Station – September
Appendix F: RWDI Q3 Sulphur Dioxide Emissions Technical Memorandum
Appendix G: Updated Q2 Delayed PAH Results

1 INTRODUCTION

RWDI AIR Inc. (RWDI) was retained by Durham Region and York Region (the Regions) to conduct discrete and continuous air quality ambient monitoring at the Durham York Energy Centre (DYEC) monitoring stations. The facility address is 1835 Energy Drive, Clarington, Ontario. The DYEC is a facility that manages post diversion municipal solid waste from Durham Region and York Region to create energy from waste combustion. Commercial operation of the DYEC commenced on February 1, 2016. The site location is shown below in **Figure 1**.

Condition 11 of the Environmental Assessment Notice of Approval and Condition 7(4) of the Environmental Compliance Approval (ECA) requires ambient air monitoring to be undertaken by the DYEC. An Ambient Air Monitoring and Reporting Plan was prepared and approved by the Ministry of Environment, Conservation and Parks (MECP) to satisfy these conditions. Two (2) monitoring stations were established to monitor ambient air quality around the DYEC and quantify the background ambient air quality levels and DYEC contributed emissions to ambient air quality levels.

This monitoring plan was developed based on the Regional Council mandate to provide ambient monitoring in the area of the DYEC. The purposes of the ambient monitoring program are to:

- Quantify any measurable ground level concentrations resulting from emissions from the DYEC cumulative to local air quality, including validating the predicted concentrations from the dispersion modelling conducted in the Environmental Assessment (2009a);
- Monitor concentration levels of EFW-related air contaminants in nearby residential areas; and,
- Quantify background ambient levels of air contaminants in the area.

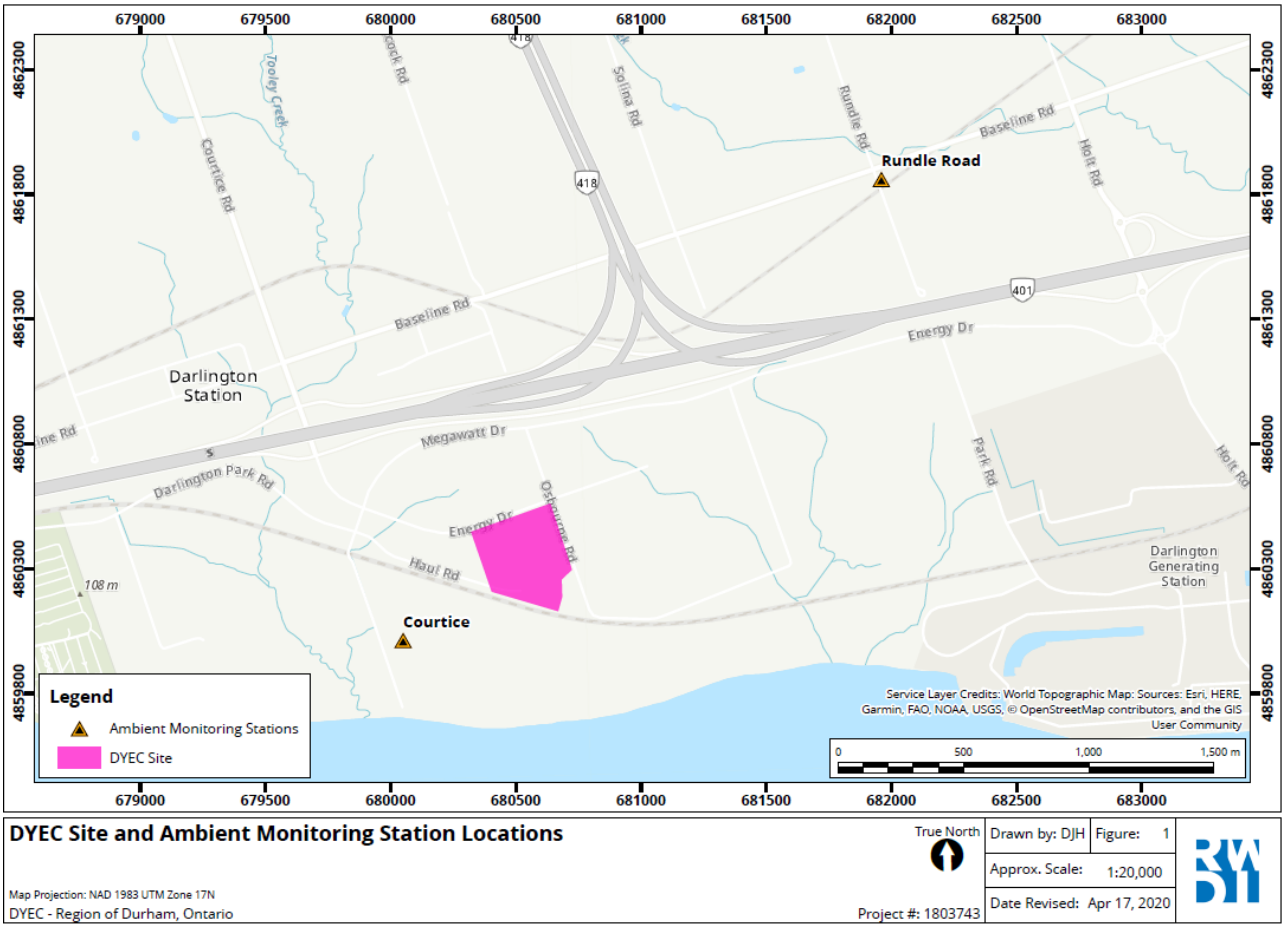
The facility has two (2) monitoring stations, which collect continuous and discrete ambient measurements, known as the Courtice station and Rundle Road station. The station locations are shown in **Figure 1**. The Courtice and Rundle Road stations were operational in May of 2013 and have been operated on behalf of the Region of Durham by Stantec Consulting Ltd. since that time up until July 31, 2018. RWDI has overseen the operation of the stations on behalf of the Region of Durham since August 1, 2018.

The Courtice and Rundle Road stations continuously monitor the following air quality parameters: Particulate Matter less than 2.5 microns ($PM_{2.5}$), Nitrogen Oxides (NO_X) and Sulphur Dioxide (SO_2). In addition, both discretely monitor the following air quality parameters: Total Suspended Particulate (TSP), Metals, Dioxins and Furans (D&F) and Polycyclic Aromatic Hydrocarbons (PAHs).

Continuous meteorological data is collected at the Courtice and Rundle Road stations. The Rundle Road station collects the following meteorological parameters: wind speed, wind direction, ambient temperature, precipitation and relative humidity. The Courtice station collects the following meteorological parameters: wind speed, wind direction, ambient temperature, ambient pressure, precipitation and relative humidity. The meteorological towers at both stations are approximately 10 meters tall.

Throughout this monitoring period, there were twenty-four (24) exceedance events of the rolling 10-minute SO_2 AAQC and seventeen (17) exceedance events of the rolling 1-hour SO_2 AAQC at the Courtice station. Data recovery rates were acceptable and valid for all measured Q3 continuous and TSP parameters, while unacceptable for the PUF parameters.

Figure 1: DYEC Site and Ambient Monitoring Station Locations



1.1 Sampling Locations

The station sites were selected in consultation with a working group that included representatives from the MECP, the Region of Durham, York Region, and the Energy from Waste Advisory Committee (EFWAC), as required by Condition 11.3 of the Environmental Assessment Notice of Approval. The Courtice station is predominantly upwind of the DYEC and is located on the Courtice WPCP property just southwest of the DYEC. The Rundle Road station is predominantly downwind of the DYEC and is located just southeast of the intersection of Baseline Road and Rundle Road just northeast of the DYEC. Pictures of the two (2) stations are presented in **Figures 2** and **3**.

Figure 2: Rundle Road Station

Figure 3: Courtice Station

2 SAMPLING METHODOLOGY

The Rundle Road and Courtice stations are both equipped with the following continuous monitors: Thermo Scientific Model 5030 SHARP (Synchronized Hybrid Ambient Real-time Particulate) monitor ($PM_{2.5}$ analyzer), Teledyne Nitrogen Oxides Analyzer Model T200 (NO_X analyzer), and a Teledyne Sulphur Dioxide Analyzer Model T100 (SO_2 analyzer). Both stations also have the following periodic monitors: High Volume (Hi-Vol) Air Sampler outfitted with a TSP inlet head as approved by the United States Environmental Protection Agency (U.S. EPA), and a Hi-Vol Air Sampler outfitted with a polyurethane foam plug and circular quartz filter for measuring PAH's and D&F's as approved by U.S. EPA.

2.1 Nitrogen Oxide Analyzers

The Teledyne T200 Nitrogen Oxide (NO_X) analyzers use chemiluminescence detection, coupled with microprocessor technology to provide sensitivity and stability for ambient air quality applications. The instrument determines real-time concentration of nitric oxide (NO), total nitrogen oxides (NO_X) (the sum of NO and NO_2), and nitrogen dioxide (NO_2). The amount of NO is measured by detecting the chemiluminescence reaction that occurs in the reaction cell when NO molecules are exposed to ozone (O_3). The NO and O_3 molecules collide in the reaction cell and enter a higher energy state.

When these excited molecules return to a stable energy state, they emit a photon of light which is proportional to the amount of NO in the sample stream of gas entering the analyzer.

To determine the total NO_X ($NO+NO_2$) measurement, sample gas is periodically bypassed through a heated molybdenum converter cartridge that converts any NO_2 molecules in the sample stream into NO (any existing NO molecules in the stream remain as is). The instrument will switch the sample stream through the converter periodically and then through the reaction cell where the same chemiluminescence reaction occurs with ozone.

The resultant response produced is now the sum of NO and converted NO_2 producing a NO_X measurement. The resultant NO_2 determination is the NO_X measurement subtracted from the NO measurement.

The NO_X analyzers were zero and span checked daily using the internal zero and span (IZS) system and calibrated once a month using either EPA protocol span gases and a dilution system or an ESA permeation tube calibrator. Automatic IZS checks were performed on a daily basis commencing at approximately 01:45 and ending at 02:15. The checks consisted of a 10-minute zero check, a 10-minute span check and a 10-minute purge. These checks provide a way to monitor daily performance of the analyzer using an external charcoal and purafil zeroing cartridge for the zero, and an internal permeation oven with a permeation tube for the span. These IZS checks are not for calibration purposes but are merely a diagnostic tool to identify instrument drift.

The instrument collects data using its own data acquisition system (DAS) on a 5-minute interval. Data is collected from the instrument directly to an EnviDAS logger at 1-min, 5-min and 60-min intervals. The logger can be accessed remotely, and all instrument parameters can be examined as well as the measurement data. This allows the tracking of instrument performance. Data was also collected at 1-minute intervals by an external datalogger using analog output connections as a back-up. The measurement data was averaged using Envista processing software over a 1-hour and 24-hour period to compare to the applicable ambient air quality criteria.

2.2 Sulphur Dioxide Analyzers

The Teledyne T100 Sulphur Dioxide (SO_2) Analyzer is a microprocessor-controlled analyzer that determines the concentration of SO_2 in a sample gas drawn through the instrument. In the sample chamber, sample gas is excited by ultraviolet light, causing the SO_2 to absorb energy from the light and move to an active state (SO_2*). These active SO_2* molecules must decay into a stable state back to SO_2, and when this happens, a photon of light is released, which is recognized by the instrument as fluorescence. The instrument measures the amount of fluorescence to determine the amount of SO_2 present in the sample gas.

The SO_2 analyzers were zeroed and span checked daily using the IZS system and calibrated once a month using either EPA protocol span gases and a dilution system or an ESA permeation tube calibrator. Automatic IZS checks were performed on a daily basis commencing at approximately 01:45 and ending at 02:15. The checks consisted of a 10-minute zero check, a 10-minute span check and a 10-minute purge. These checks provide a way to monitor daily performance of the analyzer using an external charcoal and purafil zeroing cartridge for the zero, and an internal permeation oven with a permeation tube for the span. These IZS checks are not for calibration purposes but are merely a diagnostic tool to identify instrument drift.

The instrument collects data using its own data acquisition system (DAS) on a 5-minute interval. Data is collected from the instrument directly to an EnviDAS logger at 1-min, 5-min and 60-min intervals. The logger can be accessed remotely, and all instrument parameters can be examined as well as the measurement data. This allows the tracking of instrument performance. Data was also collected at 1-minute intervals by an external datalogger using analog output connections as a back-up. The measurement data was averaged using Envista processing software over a 1-hour and 24-hour period to compare to the applicable ambient air quality criteria.

2.3 SHARP 5030 $PM_{2.5}$ Analyzers

The SHARP 5030 is a hybrid nephelometric/radiometric particulate mass monitor capable of providing precise, real-time measurements with a superior detection limit. The SHARP incorporates a high sensitivity light scattering photometer whose output signal is continuously referenced to the time-averaged measurement of an integral beta attenuating mass sensor. The SHARP also incorporates a dynamic inlet heating system designed to maintain the relative humidity of the air passing through the filter tape constant.

The SHARP is calibrated once a month to ensure accuracy and validity of its data. The $PM_{2.5}$ inlet head and sharp cut cyclone is cleaned monthly as well to ensure proper performance. The monthly calibration process consists of the following: zeroing the nephelometer if necessary, calibration of ambient temperature, calibration of barometric pressure, and calibration of the flow.

The instrument collects data using its own data acquisition system (DAS) on a 5-minute interval. Data is collected from the instrument directly to an EnviDAS logger at 1-min, 5-min and 60-min intervals. The logger can be accessed remotely, and all instrument parameters can be examined as well as the measurement data. This allows the tracking of instrument performance. Data was also collected at 1-minute intervals by an external datalogger using analog output connections as a back-up. The measurement data was averaged using Envista processing software over a 1-hour and 24-hour period to compare to the applicable ambient air quality criteria.

2.4 TSP High Volume Air Samplers

The Tisch TE-5170 Total Suspended Particulate (TSP) high volume (Hi-Vol) air samplers were outfitted with a TSP gabled inlet capable of collecting particulate of all aerodynamic diameters. Each Hi-Vol is equipped with a mass flow controller, which ensures a flow rate of 40 cubic feet per minute (CFM), a chart recorder for measuring cfm flow throughout the run time, an elapsed timer and a wheel timer for starting and stopping each sample. In the latter part of 2019, the pin-based wheel timer was modified with an automated relay system controlled by a data logger to toggle the sampler on and off, and the chart recorder system was replaced by a digital pressure transducer to record the blower output pressure. Teflon coated glass fibre filters are outfitted at the top of the hi-vol samplers where air is drawn through the filter, thereby collecting TSP. Each Hi-Vol is calibrated quarterly (every three months) to ensure accuracy and validity of the volume of air drawn through the sampler.

The Teflon coated glass fibre filter media was pre and post weighed by ALS Laboratories in Burlington, Ontario. The filters are then analyzed for total particulate weight, metals analysis and mercury.

2.5 Polyurethane Foam Samplers

The D&F, and PAH samples were collected using Tisch TE-1000 samplers, which are listed as reference devices for U.S. EPA Methods TO-9 and TO-13. The samplers use a collection filter that is 'backed-up' by a polyurethane foam (PUF) plug. The airborne compounds present in the particulate phase are collected on the Teflon coated glass fibre filter and any compounds present in the vapour phase are absorbed in the PUF plug. Each PUF sampler is equipped with a mass flow controller, which can sustain 8 CFM of flow over the sampling period, an elapsed timer and a wheel timer for starting and stopping each sample.

In the latter part of 2019, the pin-based wheel timer was modified with an automated relay system controlled by a data logger to toggle the sampler on and off, and the chart recorder system was replaced by a digital pressure transducer to record the blower output pressure. Each PUF sampler is calibrated quarterly (every three months) to ensure accuracy and validity of the volume of air drawn through the sampler.

The filter and PUF media/glassware is proofed and analyzed by ALS Laboratories in Burlington, Ontario. The filters and PUF/XAD plugs are then analyzed for PAH's and D&F's.

2.6 Meteorological Towers

Meteorological data was collected from the Rundle Road and Courtice stations. This is done so that a vector could be associated with the applicable contaminant concentrations. The Rundle Road and Courtice stations are outfitted with a Campbell Scientific HMP60 Temperature / Relative Humidity probe, and a Texas Instruments TE525M rain gauge. Meteorological data was collected at 1-minute intervals and was averaged using Envista processing software over a 1-hour period.

3 AIR QUALITY CRITERIA AND STANDARDS

The monitored contaminant concentrations were compared to air quality criteria and standards set by the MECP and by Environment Canada. The MECP developed Ambient Air Quality Criteria (AAQCs) which are the maximum desirable concentrations in the outdoor air, based on effects to the environment and health (MECP, 2012). Not all contaminants have an applicable regulatory limit; therefore, other criteria were used for comparison. These included human health risk assessment (HHRA) criteria.

Environment Canada has established a Canadian Ambient Air Quality Standard (CAAQS) which are health-based air quality objectives for the outdoor air (Environment Canada, 2013). The current CAAQS' for $PM_{2.5}$ are 27 µg/m^3 for the 3-year average of annual 98th percentile 24-hour concentration, and 8.8 µg/m^3 for the 3-year average of annual average concentrations (in effect as of 2020). The CAAQS' are listed in **Table 1**. No direct comparison to the 2020 CAAQS' is appropriate for this report, as the standards are only applicable to 3-year averaged data which is provided in the annual reports.

Table 1: $PM_{2.5}$, SO_2 and NO_2 CAAQS' by Implementation Year

Parameter	Averaging Time	Year Applied		Statistical Form
		2020	2025	
Fine Particulate Matter ($PM_{2.5}$)	24-hour	27 µg/m³	-	The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations
	Annual	8.8 µg/m³	-	The 3-year average of the annual average of all 1-hour concentrations
Sulphur Dioxide (SO_2)	1-hour	70 ppb	65 ppb	The 3-year average of the annual 99th percentile of the SO_2 daily maximum 1-hour average concentrations
	Annual	5 ppb	4 ppb	The average over a single calendar year of all 1-hour average SO_2 concentrations
Nitrogen Dioxide (NO_2)	1-hour	60 ppb	42 ppb	The 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentrations
	Annual	17 ppb	12 ppb	The average over a single calendar year of all 1-hour average concentrations

(CCME,2019)

All applicable criteria and standards are shown in the 'Summary of Ambient Measurements' section of this report.

4 MECP AUDITS

In Q3, there was a MECP audit conducted on August 25, 2025. All instruments met their respective audit criteria.

5 SUMMARY OF AMBIENT MEASUREMENTS

Ambient air quality monitoring results for all contaminants sampled at the Courtice and Rundle Road stations are discussed herein. Summary statistics from July to September 2025 are presented in a summary format below and in a more detailed matrix format in **Appendix A** for continuous measurements and **Appendix B** for discrete measurements.

5.1 Meteorological Station Results

5.1.1 Courtice Station Results

The Courtice station collected the following meteorological parameters: wind speed, wind direction, relative humidity, ambient temperature, ambient pressure, and precipitation. The meteorological tower at the station is at a height of approximately 10 meters tall. The Courtice station maintained an above 100% of data collection for all the parameters measured during Q3.

Hourly statistics from the meteorological station are presented in **Table 2**. A wind rose showing trends in wind speed and wind direction during Q3 is provided in **Figure 4**. A wind direction cut-off was applied for wind speeds less than or equal to 1.8 kph for the wind rose.

Figure 4: Wind Roses of Hourly Wind Speed and Wind Direction – July to September 2025

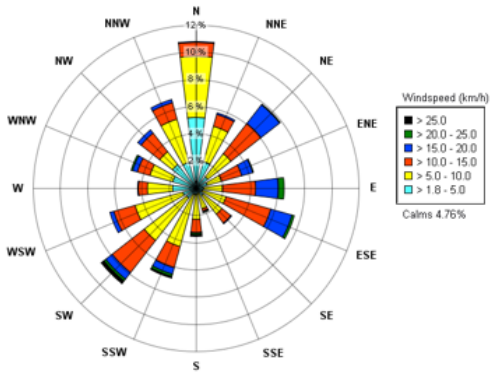
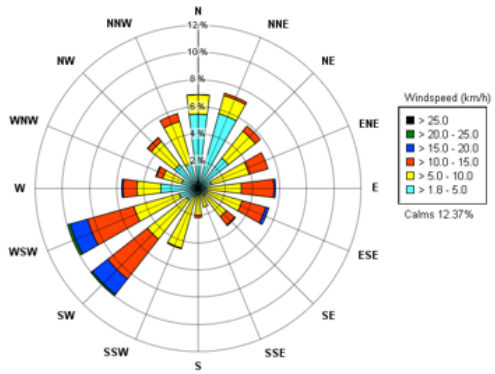
Courtice Station Wind Rose	Rundle Road Station Wind Rose
	

Table 2: Hourly Statistics from the Courtice Meteorological Station

Courtice Station MET Statistics	Maximum 1 hr. Mean					Minimum 1 hr. Mean					Monthly Mean					Total	% Valid hours					
Parameter	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	Rain	WS	WD	Temp	RH	Pres	Rain
Units	(km/hr.)	(°C)	(%)	"Hg	mm	(km/hr.)	(°C)	(%)	"Hg	mm	(km/hr.)	(°C)	(%)	"Hg	mm	mm	(%)					
July	29.5	31.1	100.0	30.0	8.7	0.2	12.5	35.3	29.4	0.0	8.0	22.5	77.2	29.7	0.0	24.2	100.0	100.0	100.0	100.0	100.0	100.0
August	24.4	30.8	100.0	30.1	4.2	0.3	8.3	29.7	29.5	0.0	9.1	20.8	71.6	29.8	0.0	13.6	100.0	100.0	100.0	100.0	100.0	100.0
September	30.0	24.9	100.0	30.1	8.8	0.2	7.8	29.0	29.3	0.0	8.7	17.7	76.5	29.8	0.1	61.6	100.0	100.0	100.0	100.0	100.0	100.0
Q3 Arithmetic Mean											8.6	20.4	75.1	29.8	0.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0

5.1.2 Rundle Road Station Results

The Rundle Road station collected the following meteorological parameters: wind speed, wind direction, relative humidity, ambient temperature, and precipitation. The meteorological tower at the station is at a height of approximately 10 meters tall. The Rundle Road station maintained data collection averages equal to or greater than 98.8% for all the meteorological parameters during Q3. Hourly statistics from the meteorological station is presented in **Table 3**. A wind rose showing trends in wind speed and wind direction during Q3 is provided in **Figure 4**. A wind direction cut-off was applied for wind speeds less than or equal to 1.8 kph for the wind rose.

Table 3: Hourly Statistics from the Rundle Road Meteorological Station

Rundle Road Station MET Statistics	Maximum 1 hr. Mean				Minimum 1 hr. Mean				Monthly Mean				Total	% Valid Hours				
Parameter	WS	Temp	RH	Rain	WS	Temp	RH	Rain	WS	Temp	RH	Rain	Rain	WS	WD	Temp	RH	Rain
Units	(km/hr.)	(°C)	(%)	mm	(km/hr.)	(°C)	(%)	mm	(km/hr.)	(°C)	(%)	mm	mm	(%)				
July	24.6	30.8	100.0	11.0	0.1	11.3	35.4	0.0	6.9	22.2	76.3	0.0	32.6	100.0	100.0	100.0	100.0	100.0
August	18.6	30.2	100.0	11.5	0.1	8.4	32.1	0.0	6.8	20.1	73.3	0.1	40.6	99.6	99.6	99.6	99.6	99.6
September	24.3	25.8	100.0	7.9	0.0	7.0	32.7	0.0	6.1	16.6	78.6	0.1	68.0	96.8	96.8	96.8	96.8	96.8
Q3 Arithmetic Mean									6.6	19.6	76.1	0.1	141.2	98.8	98.8	98.8	98.8	98.8

5.2 NO_X, SO_2 and $PM_{2.5}$ Summary Table Results

Table 4 provides a summary of Maximum 1-hour Rolling Means, Maximum 24-hour Rolling Means, Monthly Means, Quarterly Means and Percent valid data for the Courtice station. **Table 5** provides a summary of Maximum 1-hour Means, Maximum 24-hour Means, Monthly Means, Quarterly Means and Percent valid data for the Rundle Road station. **Table 6** provides a summary of exceedance statistics for both Courtice and Rundle Road stations. At the Courtice station, there were twenty-four (24) exceedance events of the rolling 10-minute SO_2 AAQC and seventeen (17) exceedance events of the 1-hour SO_2 AAQC in Q3. At the Rundle Road station, there were no exceedance events of the rolling 10-minute SO_2 AAQC or the 1-hour SO_2 AAQC in Q3.

Table 4: Summary of Courtice Station Continuous Data Statistics

Courtice Monitoring Station Data Statistics	Maximum Rolling 10 min Mean	Maximum Rolling 1 hr Mean					Maximum 24 hr Rolling Mean					Monthly Mean					% Valid Hours				
Compound	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2
Units	ppb	(µg/m³)	ppb				(µg/m³)	ppb				(µg/m³)	ppb				(%)				
AAQC/CAAQS	67				200	40	27[A]			100											
July	105.9	92.4	42.9	20.8	33.2	55.7	62.0	10.0	2.3	8.9	11.5	11.0	4.4	0.7	3.8	2.4	99.7	99.7	99.7	99.7	99.6
August	105.0	56.9	40.8	27.8	30.0	57.6	47.6	9.1	2.6	7.5	10.2	10.3	4.9	0.7	4.2	2.1	99.5	99.5	99.5	99.5	99.6
September	271.2	23.0	58.9	41.2	32.5	87.7	11.8	17.2	6.4	12.6	14.7	5.5	6.9	1.2	5.8	5.2	99.7	99.4	99.4	99.4	99.0
Q3 Arithmetic Mean												8.9	5.4	0.9	4.6	3.3	99.6	99.5	99.5	99.5	99.4

[A] The 24-hour $PM_{2.5}$ CAAQS applies to the 98th percentile over 3 consecutive years.

Table 5: Summary of Rundle Road Station Continuous Data Statistics

Rundle Road Monitoring Station Data Statistics	Maximum Rolling 10 min Mean	Maximum Rolling 1 hr Mean					Maximum 24 hr Rolling Mean					Monthly Mean					% Valid Hours				
Compound	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2
Units	ppb	(µg/m³)	ppb				(µg/m³)	ppb				(µg/m³)	ppb				(%)				
AAQC/CAAQS	67				200	40	27[A]			100											
July	5.8	89.3	55.1	24.9	31.9	3.4	59.2	12.0	4.8	8.8	1.6	10.6	4.0	0.9	3.0	0.4	99.7	99.7	99.7	99.7	99.5
August	3.7	49.2	29.9	14.3	19.2	2.3	40.9	10.1	3.3	8.1	0.4	9.5	3.3	0.8	2.5	0.1	99.1	99.2	99.2	99.2	99.1
September	4.5	25.0	45.0	23.2	24.5	3.1	9.0	9.6	3.9	6.8	0.7	4.4	3.9	1.1	2.9	0.3	96.5	96.4	96.4	96.4	96.4
Q3 Arithmetic Mean												8.2	3.7	0.9	2.8	0.3	98.4	98.4	98.4	98.4	98.3

[A] The 24-hour $PM_{2.5}$ CAAQS applies to the 98th percentile over 3 consecutive years.

Table 6: Summary of Exceedance Statistics

Event Statistics	Rolling Mean > 10 min AAQC for Courtice	Rolling Mean > 10 min AAQC for Rundle Road	Mean > 1 hr AAQC for Courtice Monitoring Station			Mean > 1 hr AAQC for Rundle Road Monitoring Station			Rolling Mean > 24 hr AAQC for Courtice Monitoring Station			Rolling Mean > 24 hr AAQC for Rundle Road Monitoring Station		
Compound	SO_2	SO_2	$PM_{2.5}$	NO_2	SO_2	$PM_{2.5}$	NO_2	SO_2	$PM_{2.5}$	NO_2	SO_2	$PM_{2.5}$	NO_2	SO_2
Units	No.	No.	No.			No.			No.			No.		
July	8	0		0	7		0	0	N/A	0		N/A	0	
August	5	0		0	3		0	0	N/A	0		N/A	0	
September	11	0		0	7		0	0	N/A	0		N/A	0	
Q3 Total	24	0		0	17		0	0	N/A	0		N/A	0	

5.3 Oxides of Nitrogen Results

5.3.1 Courtice Station Results

Data recovery levels were high for oxides of nitrogen (99.5% valid data). Monitoring results were compared to the AAQC for NO_2 only, as it is the only parameter that has AAQC values for 1-hour and 24-hour averaging periods (there are no AAQC's for NO or NO_X). There were no exceedances above the AAQC values for the entirety of the sampling period for rolling 1-hour and 24-hour averaged data. The highest NO_2 value seen among the 1-hour rolling averages was 33.2 ppb, which is 16.6% of the AAQC. The highest NO_2 value seen among the rolling 24-hour averages was 12.6 ppb, which is 12.6% of the AAQC. The measurements are summarized in **Table 4** above. A pollution rose is presented in **Figure 5** for the Courtice station during Q3 composed of hourly average NO_2 concentrations. A pollution rose indicates the percentage of time that the wind originates from a given direction coupled with the pollutant measurement for that time in either ppb or micrograms per meter cubed. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation.

The Courtice station pollution rose in **Figure 5** shows the NO_2 impacts were primarily from the north direction, suggesting impact from surrounding industry in that direction. The station is downwind of the DYEC when winds are from the northeast and east-northeast directions, which happened periodically during the monitoring period, therefore it is likely that the DYEC contributed to the observed concentrations from those directions. The additional minor impacts from the east-northeast, and west to north-northwest indicates reception from surrounding industry or the highway and railway corridors.

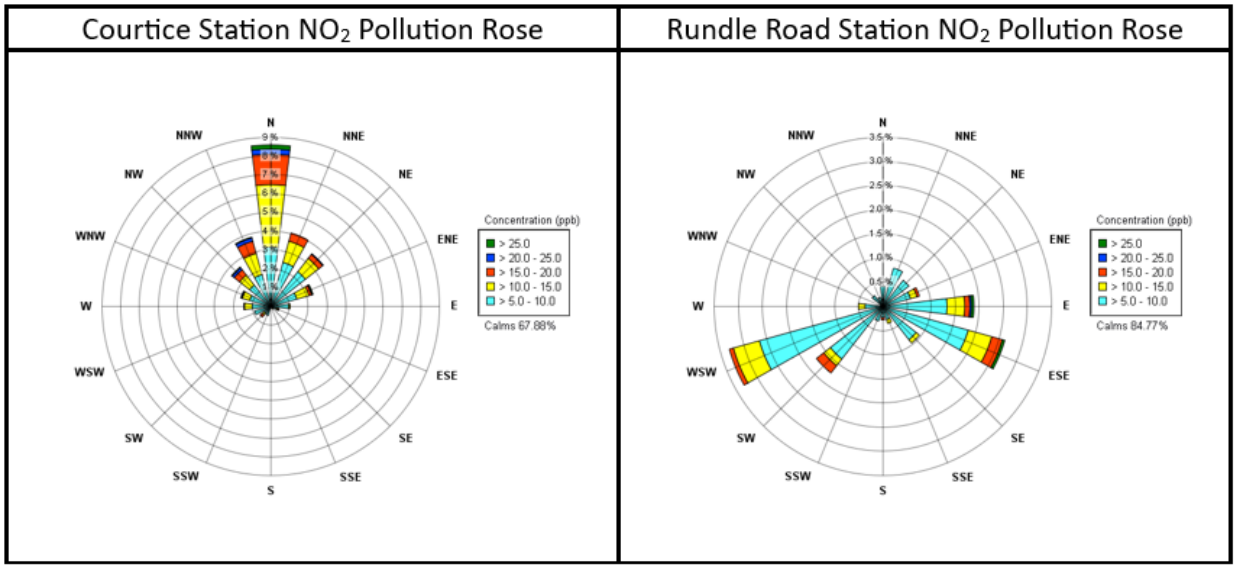
5.3.2 Rundle Road Station Results

Data recovery levels were high for oxides of nitrogen (98.4% valid data). There were no exceedances above the AAQC values for the entirety of the sampling period for rolling 1-hour and 24-hour averaged data. The highest NO_2 value seen among the 1-hour rolling averages was 31.9 ppb, which is 16.0% of the AAQC. The highest NO_2 value seen among the rolling 24-hour averages was 8.8 ppb, which is 8.8% of the AAQC. The measurements are summarized in **Table 5** above.

A pollution rose is presented in **Figure 5** for the Rundle Road station during Q3 composed of hourly average NO_2 concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation.

The Rundle Road station pollution rose in **Figure 5** shows that the NO_2 impacts were spread out primarily from the southwest to west-southwest and east to east-southeast directions. The station is downwind of the DYEC when winds are from the southwest and west-southwest directions which happened periodically during the monitoring period, therefore it is likely that the DYEC contributed to the observed concentrations from those directions. The additional minor impacts from the west, north-northeast to southeast likely indicates reception from surrounding industry or the highway and railway corridors.

Figure 5: Pollution Roses of Hourly Average NO_2 Concentrations – July to September 2025



5.4 Sulphur Dioxide Results

5.4.1 Courtice Station Results

Data recovery levels were high for sulphur dioxide (99.4% valid data). Monitoring results were compared to the AAQC for 10-minute and 1-hour rolling average periods. In 2023, there have been more frequent SO_2 concentrations elevated above the AAQC's than in previous years due to the new limits imposed at the start of 2020. In Q3 of 2025, the highest SO_2 value seen among the 10-min rolling averages was 271.2 ppb, which is 404.8% of the AAQC. The highest SO_2 value seen among the 1-hour rolling averages was 87.7 ppb, which is 219.2% of the AAQC. There were twenty-four (24) exceedance events of the rolling 10-minute SO_2 AAQC and seventeen (17) exceedance events of the 1-hour SO_2 AAQC in Q3. A table outlining the interpretation of the exceedance period can be found in **Appendix E**.

The SO_2 statistical results are summarized in **Table 4** above. A pollution rose is presented in **Figure 6** for the Courtice station during Q3 composed of hourly average SO_2 concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation. A pollution rose is presented in **Figure 7** for the Courtice station during Q3 composed of 5-minute average SO_2 concentrations with levels below 67 ppb omitted to illustrate directionality of exceedance concentrations.

The Courtice station pollution rose in **Figure 6** shows that the majority of elevated SO_2 events at Courtice occurred from the north to north-northeast directions. The events were likely a result of emissions from surrounding industrial sources. Additional minor contributions occurred from the north-northwest and northeast. When winds from the northeast place the Courtice monitoring station downwind of the facility, the data suggests that the DYEC likely contributed to the measured concentrations during those periods.

The Courtice station pollution rose in **Figure 7** shows that <0.18% of the 5-min SO_2 events are elevated >67 ppb and occurred from the north which does not place the station downwind of the DYEC. The impact from the north indicates the reception levels may be related to other industrial activity nearby.

A Technical Memorandum summarizing the DYEC SO_2 continuous emissions monitoring system (CEMS) data during the exceedance events recorded at the Courtice and Rundle Road Ambient Monitoring stations for Q3, is included in **Appendix F**. The Memorandum indicates that based on the in-stack concentration levels measured by the CEMS, that there were no unusual levels of SO_2 emissions during the ambient station exceedance events and that the facility's impact on ambient air quality would be expected to be quite low.

5.4.2 Rundle Road Station Results

Data recovery levels were high for sulphur dioxide (98.3% valid data). Monitoring results were compared to the AAQC for 10-minute and 1-hour rolling average periods. The highest SO_2 value seen among the 10-min rolling averages was 5.8 ppb, which is 8.7% of the AAQC. The highest SO_2 value seen among the 1-hour rolling averages was 3.4 ppb, which is 8.5% of the AAQC.

The SO_2 statistical results are summarized in **Table 5** above. A pollution rose is presented in **Figure 6** for the Rundle Road station during Q3 composed of hourly average SO_2 concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation. A pollution rose is presented in **Figure 7** for the Rundle Road station during Q3 composed of 5-minute average SO_2 concentrations with levels below 67 ppb omitted to illustrate directionality of exceedance concentrations.

The Rundle Road station pollution rose in **Figure 6** shows that there are no elevated SO_2 events.

The Rundle Road station pollution rose in **Figure 7** shows that there were no 5-min SO_2 events that are elevated >67 ppb.

Figure 6: Pollution Roses of Hourly Average SO_2 Concentrations – July to September 2025

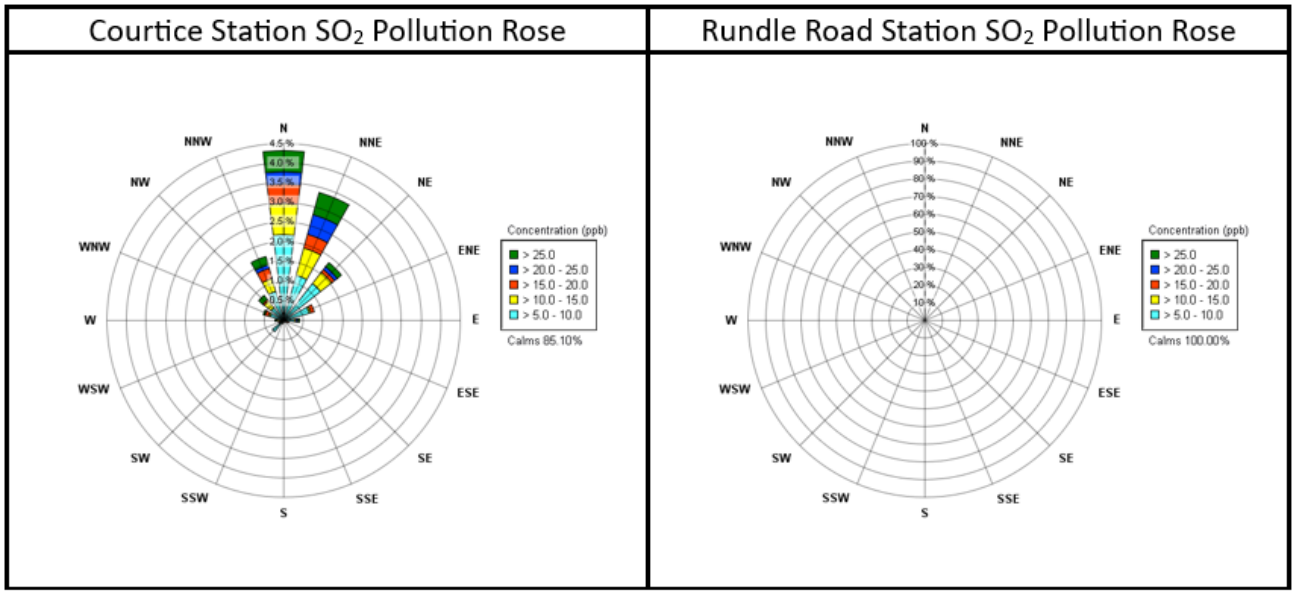
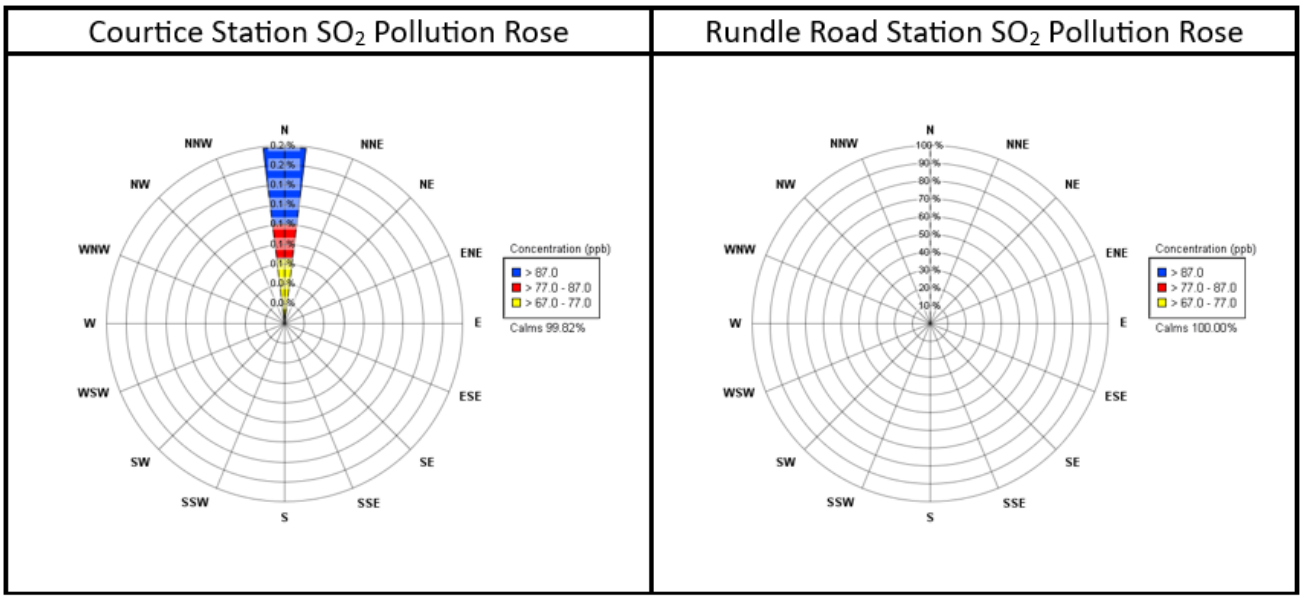


Figure 7: Pollution Roses of 5-minute Average SO_2 Concentrations >67 ppb – July to September 2025



5.5 Fine Particulate Matter ($PM_{2.5}$) Results

5.5.1 Courtice Station Results

Data recovery levels were high for particulate matter less than 2.5 microns (99.6% valid data). There is no 1-hour AAQC or standard for $PM_{2.5}$, but there is a 24-hour CAAQS of 27 µg/m^3 for the 3-year average of the annual 98th percentile 24-hour concentrations, and 8.8 µg/m^3 for the 3-year average of the annual average concentrations (in effect as of 2020). Note that since the reported data is only quarterly and the CAAQS is applicable to the 3-year average, the CAAQS' for $PM_{2.5}$ was not applicable to the data. The highest $PM_{2.5}$ value seen among the 1-hour rolling averages was 92.4 µg/m^{3,} and the highest value seen among the 24-hour rolling averages was 62.0 µg/m^3. The results are summarized in **Table 4** above. A pollution rose is presented in **Figure 8** for the Courtice station during Q3 composed of hourly average $PM_{2.5}$ concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 µg/m^3 were omitted from the graphic wind rose representation.

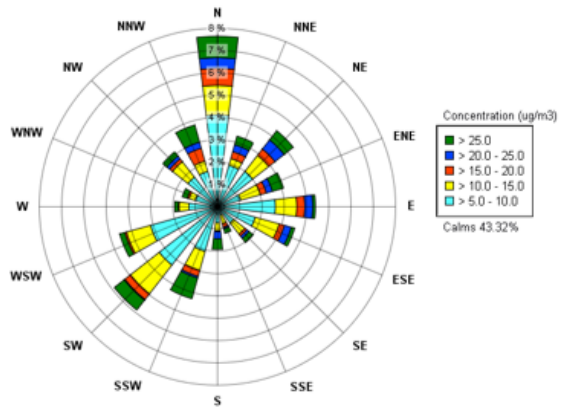
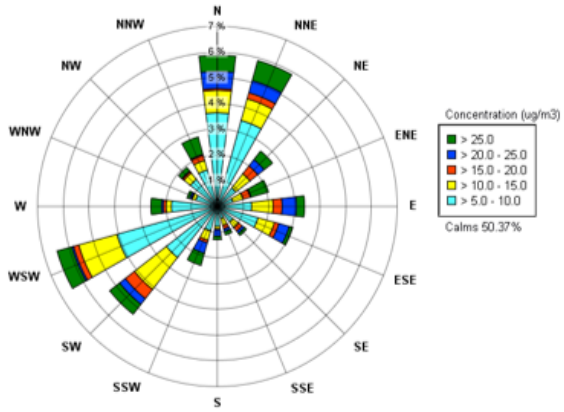
The Courtice station pollution rose in **Figure 8** shows that the majority of the elevated $PM_{2.5}$ events at Courtice occurred when winds were from the north and southwest. The northeast and east-northeast direction places the station downwind of the DYEC occasionally, which may contribute to concentrations from this direction. Other contributions are in line with nearby industrial activity. It was noted that wildfire smoke was present occasionally throughout Q3.

5.5.2 Rundle Road Station Results

Data recovery levels were high for particulate matter less than 2.5 microns (98.4% valid data). The highest $PM_{2.5}$ value seen among the 1-hour rolling averages was 89.3 µg/m^3 and the highest value seen among the 24-hour rolling averages was 59.2 µg/m^3. The results are summarized in **Table 5** above. A pollution rose is presented in **Figure 8** for the Rundle Road station during Q3 composed of hourly average $PM_{2.5}$ concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 µg/m^3 were omitted from the graphic wind rose representation.

The Rundle Road pollution rose in **Figure 8** shows that the majority of elevated $PM_{2.5}$ events at the Rundle Road station occurred when winds were from the north to north-northeast and southwest to west-southwest directions during the monitoring period. The southwest and west-southwest directions place the DYEC downwind of the station and the DYEC may have contributed to the observed concentrations from these directions. Other possible contributions include surrounding industry, nearby high traffic areas and urban background. It was noted that wildfire smoke was present occasionally throughout Q3.

Figure 8: Pollution Roses of Hourly Average $PM_{2.5}$ Concentrations – July to September 2025

Courtice Station $PM_{2.5}$ Pollution Rose	Rundle Road Station $PM_{2.5}$ Pollution Rose
	

5.6 TSP and Metals Hi-Vol Results

All of the TSP Hi-Vols operated on a discrete schedule every 6 days according to the NAPS schedule during Q3 with the sample days being: July 6, 12, 18, 24, 30, August 5, 11, 17, 23, 29, September 4, 10, 16, 22 and 28.

5.6.1 Courtice Station Results

Data recovery levels were high for the TSP sampler at the Courtice station (87% valid data). There were no exceedances of any of the AAQC's Criteria for TSP, mercury, or metals during Q3. **Table 7** is a summary of the statistics for this station.

Table 7: Summary of TSP Sampler Courtice Station

Contaminant	Units	MECP Criteria	No. > Criteria	Geometric Mean	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
Particulate (TSP)	µg/m³	*120*	0	28.4	30.4	15.47	51.53	51.53	49.38	32.19	13	87
Aluminum (Al)	µg/m³	-	-	1.72E-01	1.94E-01	7.41E-02	3.73E-01	3.73E-01	3.11E-01	3.08E-01	13	87
Antimony (Sb)	µg/m³	*25*	0	1.08E-03	1.16E-03	7.01E-04	2.46E-03	1.28E-03	1.21E-03	2.46E-03	13	87
Arsenic (As)	µg/m³	*0.3*	0	1.01E-03	1.08E-03	9.06E-04	3.04E-03	9.28E-04	9.33E-04	3.04E-03	13	87
Barium (Ba)	µg/m³	*10*	0	1.03E-02	1.16E-02	4.60E-03	3.06E-02	3.06E-02	1.09E-02	1.58E-02	13	87
Beryllium (Be)	µg/m³	*0.01*	0	1.53E-05	1.53E-05	1.51E-05	1.55E-05	1.55E-05	1.55E-05	1.55E-05	13	87
Bismuth (Bi)	µg/m³	-	-	6.55E-04	9.03E-04	5.44E-04	5.12E-03	5.12E-03	5.60E-04	5.58E-04	13	87
Boron (B)	µg/m³	*120*	0	4.92E-03	5.09E-03	4.53E-03	1.09E-02	4.64E-03	1.09E-02	4.65E-03	13	87
Cadmium (Cd)	µg/m³	*0.025*	0	1.38E-04	1.54E-04	8.13E-05	4.14E-04	2.00E-04	2.21E-04	4.14E-04	13	87
Chromium (Cr)	µg/m³	*0.5*	0	2.25E-03	2.40E-03	1.03E-03	4.19E-03	4.19E-03	2.55E-03	2.85E-03	13	87
Cobalt (Co)	µg/m³	*0.1*	0	1.33E-04	1.43E-04	6.37E-05	2.31E-04	2.31E-04	1.87E-04	1.94E-04	13	87
Copper (Cu)	µg/m³	*50*	0	4.60E-02	5.44E-02	1.37E-02	1.08E-01	9.99E-02	9.89E-02	1.08E-01	13	87
Iron (Fe)	µg/m³	*4*	0	4.34E-01	4.65E-01	1.54E-01	7.14E-01	7.14E-01	5.29E-01	6.19E-01	13	87
Lead (Pb)	µg/m³	*0.5*	0	2.98E-03	3.05E-03	1.97E-03	4.04E-03	4.00E-03	3.27E-03	4.04E-03	13	87
Magnesium (Mg)	µg/m³	-	-	2.37E-01	2.61E-01	1.12E-01	5.55E-01	5.55E-01	3.33E-01	3.05E-01	13	87
Manganese (Mn)	µg/m³	*0.4*	0	1.28E-02	1.36E-02	5.97E-03	2.46E-02	2.46E-02	1.53E-02	1.57E-02	13	87
Total Mercury (Hg)	µg/m³	*2*	0	1.16E-05	1.45E-05	3.02E-06	4.21E-05	1.30E-05	1.29E-05	4.21E-05	13	87
Molybdenum (Mo)	µg/m³	*120*	0	2.10E-03	2.45E-03	6.51E-04	6.16E-03	6.16E-03	4.69E-03	3.17E-03	13	87
Nickel (Ni)	µg/m³	*0.2*	0	1.34E-03	1.37E-03	8.81E-04	2.03E-03	2.03E-03	1.54E-03	1.56E-03	13	87
Phosphorus (P)	µg/m³	-	-	2.30E-01	2.30E-01	2.27E-01	2.33E-01	2.32E-01	2.33E-01	2.33E-01	13	87
Selenium (Se)	µg/m³	*10*	0	7.05E-04	8.97E-04	3.93E-04	2.84E-03	2.84E-03	1.31E-03	1.29E-03	13	87
Silver (Ag)	µg/m³	*1*	0	3.35E-05	3.62E-05	2.72E-05	7.73E-05	5.98E-05	2.80E-05	7.73E-05	13	87
Strontium (Sr)	µg/m³	*120*	0	6.09E-03	7.31E-03	2.14E-03	2.12E-02	2.12E-02	8.51E-03	8.66E-03	13	87
Thallium (Tl)	µg/m³	-	-	2.76E-05	2.76E-05	2.72E-05	2.80E-05	2.78E-05	2.80E-05	2.79E-05	13	87
Tin (Sn)	µg/m³	*10*	0	8.92E-04	9.25E-04	5.47E-04	1.41E-03	1.41E-03	9.82E-04	1.38E-03	13	87
Titanium (Ti)	µg/m³	*120*	0	7.32E-03	8.84E-03	3.32E-03	1.69E-02	1.69E-02	1.64E-02	1.29E-02	13	87
Uranium (Ur)	µg/m³	*0.3*	0	1.64E-05	2.12E-05	5.76E-06	5.69E-05	3.54E-05	5.69E-05	4.54E-05	13	87
Vanadium (V)	µg/m³	*2*	0	1.53E-03	1.53E-03	1.51E-03	1.55E-03	1.55E-03	1.55E-03	1.55E-03	13	87
Zinc (Zn)	µg/m³	*120*	0	5.04E-02	5.22E-02	3.64E-02	7.90E-02	7.32E-02	6.99E-02	7.90E-02	13	87
Zirconium (Zr)	µg/m³	-	-	6.14E-04	6.14E-04	6.04E-04	6.22E-04	6.19E-04	6.22E-04	6.20E-04	13	87

Note: All non-detectable results were reported as 1/2 of the detection limit

5.6.1 Rundle Road Station Results

Data recovery levels were high for the TSP sampler at the Rundle Road station (93% valid data). There were no exceedances of any of the AAQC's for TSP, mercury, or metals during Q3. **Table 8** is a summary of the station statistics.

Table 8: Summary of TSP Sampler Rundle Road Station

Contaminant	Units	MECP Criteria	No. > Criteria	Geometric Mean	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
Particulate (TSP)	µg/m³	*120*	0	28.0	30.7	14.81	65.74	42.73	65.74	36.18	14	93
Aluminum (Al)	µg/m³	-	-	1.85E-01	2.24E-01	8.49E-02	5.91E-01	4.45E-01	5.91E-01	2.50E-01	14	93
Antimony (Sb)	µg/m³	*25*	0	6.97E-04	7.54E-04	3.05E-04	1.21E-03	1.20E-03	9.03E-04	1.21E-03	14	93
Arsenic (As)	µg/m³	*0.3*	0	9.27E-04	9.27E-04	8.94E-04	9.61E-04	9.61E-04	9.48E-04	9.29E-04	14	93
Barium (Ba)	µg/m³	*10*	0	9.03E-03	1.02E-02	4.39E-03	3.09E-02	3.09E-02	1.06E-02	1.35E-02	14	93
Beryllium (Be)	µg/m³	*0.01*	0	1.55E-05	1.55E-05	1.49E-05	1.60E-05	1.60E-05	1.58E-05	1.55E-05	14	93
Bismuth (Bi)	µg/m³	-	-	6.54E-04	9.05E-04	5.37E-04	5.44E-03	5.44E-03	5.69E-04	5.57E-04	14	93
Boron (B)	µg/m³	*120*	0	4.97E-03	5.20E-03	4.47E-03	1.26E-02	4.80E-03	1.26E-02	4.64E-03	14	93
Cadmium (Cd)	µg/m³	*0.025*	0	9.08E-05	9.79E-05	5.49E-05	1.60E-04	1.60E-04	1.50E-04	9.91E-05	14	93
Chromium (Cr)	µg/m³	*0.5*	0	2.06E-03	2.37E-03	1.01E-03	4.55E-03	4.55E-03	3.48E-03	2.57E-03	14	93
Cobalt (Co)	µg/m³	*0.1*	0	1.56E-04	1.75E-04	7.28E-05	3.83E-04	2.77E-04	3.83E-04	2.03E-04	14	93
Copper (Cu)	µg/m³	*50*	0	1.07E-01	1.10E-01	4.82E-02	1.66E-01	1.14E-01	1.10E-01	1.66E-01	14	93
Iron (Fe)	µg/m³	*4*	0	4.42E-01	5.34E-01	1.30E-01	1.31E+00	1.09E+00	1.31E+00	5.30E-01	14	93
Lead (Pb)	µg/m³	*0.5*	0	2.55E-03	2.74E-03	8.84E-04	4.74E-03	4.74E-03	3.36E-03	3.34E-03	14	93
Magnesium (Mg)	µg/m³	-	-	2.41E-01	2.85E-01	9.81E-02	7.17E-01	7.17E-01	4.97E-01	2.84E-01	14	93
Manganese (Mn)	µg/m³	*0.4*	0	1.28E-02	1.43E-02	5.31E-03	2.57E-02	2.57E-02	2.26E-02	1.50E-02	14	93
Total Mercury (Hg)	µg/m³	*2*	0	1.22E-05	1.53E-05	2.98E-06	3.43E-05	2.88E-05	1.57E-05	3.43E-05	14	93
Molybdenum (Mo)	µg/m³	*120*	0	4.69E-03	4.78E-03	2.67E-03	6.56E-03	5.43E-03	5.14E-03	6.56E-03	14	93
Nickel (Ni)	µg/m³	*0.2*	0	1.42E-03	1.50E-03	7.28E-04	2.77E-03	2.44E-03	2.77E-03	1.50E-03	14	93
Phosphorus (P)	µg/m³	-	-	2.47E-01	2.55E-01	2.24E-01	5.63E-01	5.63E-01	2.37E-01	2.32E-01	14	93
Selenium (Se)	µg/m³	*10*	0	6.36E-04	8.03E-04	3.88E-04	2.38E-03	2.38E-03	1.28E-03	4.03E-04	14	93
Silver (Ag)	µg/m³	*1*	0	4.42E-05	4.97E-05	2.68E-05	9.74E-05	9.74E-05	2.84E-05	8.08E-05	14	93
Strontium (Sr)	µg/m³	*120*	0	5.64E-03	7.13E-03	1.93E-03	1.64E-02	1.36E-02	1.64E-02	9.81E-03	14	93
Thallium (Tl)	µg/m³	-	-	3.35E-05	3.93E-05	2.68E-05	1.39E-04	1.39E-04	7.84E-05	2.79E-05	14	93
Tin (Sn)	µg/m³	*10*	0	8.41E-04	8.89E-04	4.17E-04	1.43E-03	1.43E-03	9.68E-04	1.29E-03	14	93
Titanium (Ti)	µg/m³	*120*	0	8.04E-03	1.02E-02	3.28E-03	2.47E-02	2.28E-02	2.47E-02	1.22E-02	14	93
Uranium (Ur)	µg/m³	*0.3*	0	1.59E-05	2.39E-05	4.85E-06	8.09E-05	8.09E-05	7.78E-05	3.66E-05	14	93
Vanadium (V)	µg/m³	*2*	0	1.65E-03	1.73E-03	1.49E-03	4.11E-03	4.11E-03	1.58E-03	1.55E-03	14	93
Zinc (Zn)	µg/m³	*120*	0	5.11E-02	5.58E-02	2.37E-02	1.13E-01	1.13E-01	6.96E-02	6.04E-02	14	93
Zirconium (Zr)	µg/m³	-	-	6.18E-04	6.18E-04	5.96E-04	6.41E-04	6.41E-04	6.32E-04	6.19E-04	14	93

Note: All non-detectable results were reported as 1/2 of the detection limit

5.7 PAH Results

All of the PUF Hi-Vols operated on a discrete schedule every 12 days for PAH's according to the NAPS schedule during Q3 with the sample days being: July 12, 24, August 5, 17 ,29, September 22. September 10 sampling was not performed at either site due to equipment damage. An earlier version of this report had erroneously attributed the unavailability of September 10 results to a lab delay. For both stations, excluding the invalid Courtice July 12, 24, September 22, Rundle July 12, August 17 and September 22 samples, all other samples previously mentioned were successfully collected and were counted towards the sample validity.

As mentioned in the second quarter report, the June 18 and 30 PAH results were unavailable at the time of the Q2 report. These sample results have since been released and are seen in **Appendix G.** There were no BaP exceedances at either of the Courtice and Rundle stations.

5.7.1 Courtice Station Results

Data recovery levels were below acceptable for the PAH results at the Courtice station (43% valid data) in Q3. There were no exceedances of the BaP AAQC during Q3 from the available results. All other contaminants were below their respective AAQC's during Q3 of 2025. **Table 9** outlines the statistics summary for this station.

Table 9: Statistics Summary of PAH Results for Courtice Station

Contaminant	Units	MECP Criteria (µg/m³)	No. > Criteria	Arithmetic Mean	Minimum Q3 Concentration	Maximum Q3 Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m³	-	-	6.54E+00	5.04E+00	8.56E+00	-	8.56E+00	-	3	43
2-Methylnaphthalene	ng/m³	-	-	1.22E+01	9.20E+00	1.82E+01	-	1.82E+01	-	3	43
Acenaphthene	ng/m³	-	-	9.49E+00	5.10E+00	1.61E+01	-	1.61E+01	-	3	43
Acenaphthylene	ng/m³	-	-	8.01E-01	2.40E-01	1.68E+00	-	1.68E+00	-	3	43
Anthracene	ng/m³	-	-	4.16E-01	3.66E-01	4.62E-01	-	4.62E-01	-	3	43
Benzo(a)Anthracene	ng/m³	-	-	1.68E-02	7.43E-03	2.96E-02	-	2.96E-02	-	3	43
Benzo(a)fluorene	ng/m³	-	-	2.24E-02	1.49E-02	3.30E-02	-	3.30E-02	-	3	43
Benzo(a)Pyrene (Historically High)	ng/m³	0.05	0	1.00E-02	5.78E-03	1.45E-02	-	1.45E-02	-	3	43
Benzo(b)Fluoranthene	ng/m³	-	-	2.70E-02	1.02E-02	4.38E-02	-	4.38E-02	-	2	29
Benzo(b)fluorene	ng/m³	-	-	1.08E-02	5.27E-03	2.10E-02	-	2.10E-02	-	3	43
Benzo(e)Pyrene	ng/m³	-	-	1.87E-02	1.28E-02	3.04E-02	-	3.04E-02	-	3	43
Benzo(g,h,i)Perylene	ng/m³	-	-	1.68E-02	1.00E-02	2.60E-02	-	2.60E-02	-	3	43
Benzo(k)Fluoranthene	ng/m³	-	-	1.27E-02	1.84E-03	2.36E-02	-	2.36E-02	-	3	43
Biphenyl	ng/m³	-	-	4.58E+00	2.80E+00	6.00E+00	-	6.00E+00	-	3	43
Chrysene	ng/m³	-	-	4.04E-02	2.82E-02	5.38E-02	-	5.38E-02	-	3	43
Dibenzo(a,h)Anthracene	ng/m³	-	-	6.60E-03	1.84E-03	9.38E-03	-	9.38E-03	-	3	43
Fluoranthene	ng/m³	-	-	1.78E+00	9.75E-01	2.96E+00	-	2.96E+00	-	3	43
Fluorene	ng/m³	-	-	5.40E+00	2.79E+00	8.92E+00	-	8.92E+00	-	3	43
Indeno(1,2,3-cd)Pyrene	ng/m³	-	-	1.82E-02	7.17E-03	3.05E-02	-	3.05E-02	-	3	43
Naphthalene	ng/m³	22500	0	1.84E+01	9.42E+00	2.36E+01	-	2.36E+01	-	3	43
o-Terphenyl	ng/m³	-	-	1.67E-02	9.49E-03	3.07E-02	-	3.07E-02	-	3	43
Perylene	ng/m³	-	-	1.79E-03	1.72E-03	1.84E-03	-	1.84E-03	-	3	43
Phenanthrene	ng/m³	-	-	7.76E+00	4.69E+00	1.15E+01	-	1.15E+01	-	3	43
Pyrene	ng/m³	-	-	6.07E-01	4.96E-01	8.05E-01	-	8.05E-01	-	3	43
Tetralin	ng/m³	-	-	1.12E+00	8.50E-01	1.55E+00	-	1.55E+00	-	3	43
Total PAH	ng/m³	-	-	6.93E+01	5.20E+01	9.78E+01	-	9.78E+01	-	3	43

Notes: All non-detectable results were reported as 1/2 of the detection limit
July and September samples are invalid or were not completed; therefore no maximum concentration can be calculated

5.7.2 Rundle Road Station Results

Data recovery levels were below acceptable for the PAH results at the Rundle Road station (43% valid data). There were no exceedances of the BaP AAQC during Q3. All other contaminants were below their respective AAQC's during Q3 of 2025. **Table 10** outlines the statistics summary for this station.

Table 10: Statistics Summary of PAH Results for Rundle Road Station

Contaminant	Units	MECP Criteria (µg/m³)	No. > Criteria	Arithmetic Mean	Minimum Q3 Concentration	Maximum Q3 Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m³	-	-	6.42E+00	4.30E+00	7.68E+00	7.29E+00	7.68E+00	-	3	43
2-Methylnaphthalene	ng/m³	-	-	1.22E+01	8.04E+00	1.48E+01	1.38E+01	1.48E+01	-	3	43
Acenaphthene	ng/m³	-	-	1.30E+01	6.71E+00	1.75E+01	1.48E+01	1.75E+01	-	3	43
Acenaphthylene	ng/m³	-	-	3.07E-01	2.56E-01	3.55E-01	3.10E-01	3.55E-01	-	3	43
Anthracene	ng/m³	-	-	8.97E-01	3.20E-01	1.34E+00	1.03E+00	1.34E+00	-	3	43
Benzo(a)Anthracene	ng/m³	-	-	2.33E-02	7.82E-03	3.28E-02	3.28E-02	2.93E-02	-	3	43
Benzo(a)fluorene	ng/m³	-	-	3.85E-02	1.41E-02	5.19E-02	4.97E-02	5.19E-02	-	3	43
Benzo(a)Pyrene (Historically High)	ng/m³	0.05	0	1.42E-02	3.91E-03	2.72E-02	2.72E-02	1.15E-02	-	3	43
Benzo(b)Fluoranthene	ng/m³	-	-	3.06E-02	1.21E-02	5.34E-02	5.34E-02	2.62E-02	-	2	29
Benzo(b)fluorene	ng/m³	-	-	1.96E-02	7.03E-03	3.00E-02	3.00E-02	2.19E-02	-	3	43
Benzo(e)Pyrene	ng/m³	-	-	2.05E-02	7.88E-03	3.01E-02	3.01E-02	2.34E-02	-	3	43
Benzo(g,h,i)Perylene	ng/m³	-	-	1.91E-02	8.89E-03	3.26E-02	3.26E-02	1.58E-02	-	3	43
Benzo(k)Fluoranthene	ng/m³	-	-	1.17E-02	5.41E-03	2.00E-02	2.00E-02	9.76E-03	-	3	43
Biphenyl	ng/m³	-	-	4.61E+00	1.56E+00	8.15E+00	4.12E+00	8.15E+00	-	3	43
Chrysene	ng/m³	-	-	8.00E-02	2.24E-02	1.11E-01	1.07E-01	1.11E-01	-	3	43
Dibenzo(a,h)Anthracene	ng/m³	-	-	5.01E-03	3.65E-03	6.22E-03	6.22E-03	5.15E-03	-	3	43
Fluoranthene	ng/m³	-	-	3.21E+00	1.11E+00	4.42E+00	4.42E+00	4.09E+00	-	3	43
Fluorene	ng/m³	-	-	7.43E+00	3.62E+00	9.55E+00	9.13E+00	9.55E+00	-	3	43
Indeno(1,2,3-cd)Pyrene	ng/m³	-	-	1.58E-02	1.07E-02	2.53E-02	2.53E-02	1.13E-02	-	3	43
Naphthalene	ng/m³	22500	0	1.95E+01	1.64E+01	2.29E+01	2.29E+01	1.92E+01	-	3	43
o-Terphenyl	ng/m³	-	-	1.64E-02	3.68E-03	3.04E-02	1.51E-02	3.04E-02	-	3	43
Perylene	ng/m³	-	-	3.65E-03	1.63E-03	5.41E-03	5.41E-03	3.92E-03	-	3	43
Phenanthrene	ng/m³	-	-	1.31E+01	5.37E+00	1.73E+01	1.65E+01	1.73E+01	-	3	43
Pyrene	ng/m³	-	-	1.26E+00	4.49E-01	1.67E+00	1.67E+00	1.67E+00	-	3	43
Tetralin	ng/m³	-	-	1.27E+00	1.18E+00	1.45E+00	1.18E+00	1.45E+00	-	3	43
Total PAH	ng/m³	-	-	8.36E+01	4.97E+01	1.03E+02	9.77E+01	1.03E+02	-	3	43

Notes: All non-detectable results were reported as 1/2 of the detection limit
September samples are invalid or were not completed; therefore no maximum concentration can be calculated

5.8 Dioxin and Furan Results

All of the PUF Hi-Vols operated on a discrete schedule every 24 days for D&F's according to the NAPS schedule during Q3 with the sample days being: July 24, August 17 and September 10. The September 10 sampling was not performed due to equipment damage.

5.8.1 Courtice Station Results

Data recovery levels were below acceptable for the D&F results at the Courtice station (33% valid data). There were no exceedances of any of the AAQC's for any of the D&F's during Q3. **Table 11** is a summary of the statistics for this station.

Table 11: Courtice Station Q3 Monitoring Results for Dioxins and Furans

Contaminant	Units	MECP Criteria	No. > Criteria	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg/m^3	-	-	4.69E-03	4.69E-03	4.69E-03	-	4.69E-03	-	1	33
1,2,3,7,8-PeCDD	pg/m^3	-	-	3.07E-03	3.07E-03	3.07E-03	-	3.07E-03	-	1	33
1,2,3,4,7,8-HxCDD	pg/m^3	-	-	3.25E-04	3.25E-04	3.25E-04	-	3.25E-04	-	1	33
1,2,3,6,7,8-HxCDD	pg/m^3	-	-	3.07E-04	3.07E-04	3.07E-04	-	3.07E-04	-	1	33
1,2,3,7,8,9-HxCDD	pg/m^3	-	-	3.07E-04	3.07E-04	3.07E-04	-	3.07E-04	-	1	33
1,2,3,4,6,7,8-HpCDD	pg/m^3	-	-	1.22E-04	1.22E-04	1.22E-04	-	1.22E-04	-	1	33
OCDD	pg/m^3	-	-	8.12E-06	8.12E-06	8.12E-06	-	8.12E-06	-	1	33
2,3,7,8-TCDF	pg/m^3	-	-	3.79E-04	3.79E-04	3.79E-04	-	3.79E-04	-	1	33
1,2,3,7,8-PeCDF	pg/m^3	-	-	7.04E-05	7.04E-05	7.04E-05	-	7.04E-05	-	1	33
2,3,4,7,8-PeCDF	pg/m^3	-	-	1.48E-03	1.48E-03	1.48E-03	-	1.48E-03	-	1	33
1,2,3,4,7,8-HxCDF	pg/m^3	-	-	2.17E-04	2.17E-04	2.17E-04	-	2.17E-04	-	1	33
1,2,3,6,7,8-HxCDF	pg/m^3	-	-	2.17E-04	2.17E-04	2.17E-04	-	2.17E-04	-	1	33
2,3,4,6,7,8-HxCDF	pg/m^3	-	-	2.17E-04	2.17E-04	2.17E-04	-	2.17E-04	-	1	33
1,2,3,7,8,9-HxCDF	pg/m^3	-	-	2.53E-04	2.53E-04	2.53E-04	-	2.53E-04	-	1	33
1,2,3,4,6,7,8-HpCDF	pg/m^3	-	-	3.43E-05	3.43E-05	3.43E-05	-	3.43E-05	-	1	33
1,2,3,4,7,8,9-HpCDF	pg/m^3	-	-	8.23E-05	8.23E-05	8.23E-05	-	8.23E-05	-	1	33
OCDF	pg/m^3	-	-	2.22E-06	2.22E-06	2.22E-06	-	2.22E-06	-	1	33
Total Toxic Equivalency	pg TEQ/m^3	0.1 1[1]	0	1.18E-02	1.18E-02	1.18E-02	-	1.18E-02	-	1	33

Notes: All non-detectable results were reported as 1/2 of the detection limit
[1] O. Reg. 419/05 Schedule Upper Risk Thresholds
July and September samples are invalid; therefore no maximum concentration can be calculated

5.8.2 Rundle Road Station Results

Data recovery levels were below acceptable for the D&F results at the Rundle Road station (33% valid data). There were no exceedances of any of the AAQC's Criteria for any of the D&F's during Q3. **Table 12** is a summary of the statistics for this station.

Table 12: Rundle Road Station Q3 Monitoring Results for Dioxins and Furans

Contaminant	Units	*MECP Criteria*	No. > Criteria	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg/m^3	-	-	9.02E-04	9.02E-04	9.02E-04	9.02E-04	-	-	1	33
1,2,3,7,8-PeCDD	pg/m^3	-	-	1.49E-03	1.49E-03	1.49E-03	1.49E-03	-	-	1	33
1,2,3,4,7,8-HxCDD	pg/m^3	-	-	1.56E-04	1.56E-04	1.56E-04	1.56E-04	-	-	1	33
1,2,3,6,7,8-HxCDD	pg/m^3	-	-	1.49E-04	1.49E-04	1.49E-04	1.49E-04	-	-	1	33
1,2,3,7,8,9-HxCDD	pg/m^3	-	-	1.45E-04	1.45E-04	1.45E-04	1.45E-04	-	-	1	33
1,2,3,4,6,7,8-HpCDD	pg/m^3	-	-	5.56E-04	5.56E-04	5.56E-04	5.56E-04	-	-	1	33
OCDD	pg/m^3	-	-	5.19E-05	5.19E-05	5.19E-05	5.19E-05	-	-	1	33
2,3,7,8-TCDF	pg/m^3	-	-	1.23E-04	1.23E-04	1.23E-04	1.23E-04	-	-	1	33
1,2,3,7,8-PeCDF	pg/m^3	-	-	3.31E-05	3.31E-05	3.31E-05	3.31E-05	-	-	1	33
2,3,4,7,8-PeCDF	pg/m^3	-	-	3.09E-04	3.09E-04	3.09E-04	3.09E-04	-	-	1	33
1,2,3,4,7,8-HxCDF	pg/m^3	-	-	1.20E-04	1.20E-04	1.20E-04	1.20E-04	-	-	1	33
1,2,3,6,7,8-HxCDF	pg/m^3	-	-	1.18E-04	1.18E-04	1.18E-04	1.18E-04	-	-	1	33
2,3,4,6,7,8-HxCDF	pg/m^3	-	-	6.63E-05	6.63E-05	6.63E-05	6.63E-05	-	-	1	33
1,2,3,7,8,9-HxCDF	pg/m^3	-	-	7.18E-05	7.18E-05	7.18E-05	7.18E-05	-	-	1	33
1,2,3,4,6,7,8-HpCDF	pg/m^3	-	-	1.26E-04	1.26E-04	1.26E-04	1.26E-04	-	-	1	33
1,2,3,4,7,8,9-HpCDF	pg/m^3	-	-	7.18E-06	7.18E-06	7.18E-06	7.18E-06	-	-	1	33
OCDF	pg/m^3	-	-	2.15E-06	2.15E-06	2.15E-06	2.15E-06	-	-	1	33
Total Toxic Equivalency	pg TEQ/m^3	*0.1* *1*[1]	0	4.43E-03	4.43E-03	4.43E-03	4.43E-03	-	-	1	33

Notes: All non-detectable results were reported as 1/2 of the detection limit
[1] O. Reg. 419/05 Schedule Upper Risk Thresholds
August and September samples are invalid; therefore no maximum concentration can be calculated

6 DATA REQUESTS

The following sections outline any instrumentation issues encountered that have caused data loss at any of the monitors at each of the stations.

Appendix C contains monthly IZS zero trends for the NO_X and SO_2 analyzers at the Courtice and Rundle Road stations.

Edit logs identifying missing data, maintenance times, calibrations and any other missing data have been included in **Appendix D**.

6.1 Continuous Monitoring

On August 25, 2025 from 16:00 to 19:00, the Rundle station experienced a power outage affecting all monitors.

On September 16, 2025 from 15:00 to 16:00, the Courtice station experienced a communication outage affecting all monitors.

On September 22, 2025 from 18:00 to September 23 at 17:00, the Rundle station experienced a power outage affecting all monitors.

6.2 Discrete Monitoring

The July 12, 2025 PUF samples at Courtice and Rundle were invalidated due to the sample volume being outside of sampling criteria.

The July 18 and 24, 2025 TSP samples at Courtice was invalidated due to equipment failure.

The July 24, 2025 PUF sample at Courtice was invalidated due to the sample volume being outside of sampling criteria.

The August 17, 2025 PUF sample at Rundle was invalidated due to the sample volume being outside of sampling criteria.

The September 10, 2025 PUF samples at Courtice and Rundle were invalidated due to damaged equipment.

The September 22, 2025 PUF samples at Courtice and Rundle were invalidated due to the sample volume being outside of sampling criteria.

The September 22, 2025 TSP sample at Rundle was invalidated due to the sample volume being outside of sampling criteria.

7 CONCLUSIONS

This Q3 report provides a summary of the ambient air quality data collected at the Courtice and Rundle Road stations. There were twenty-four (24) exceedance events of the rolling 10-minute SO_2 AAQC and seventeen (17) exceedance events of the 1-hour SO_2 AAQC at the Courtice station. There were no exceedances of the Benzo(a) Pyrene AAQC at the Rundle Road and Courtice station. Data recovery rates were acceptable and valid for all measured Q3 continuous parameters and TSP while unacceptable for the PUF sampling at both stations.

8 REFERENCES

1. Canadian Council of Ministers of the Environment (CCME), 2012. Guidance Document on Achievement Determination Canadian Ambient Air Quality Standards for Fine Particulate Matter and Ozone. PN 1483 978-1-896997-91-9 PDF
2. Canadian Council of Ministers of the Environment (CCME), 2019. Guidance Document on Air Zone Management. PN 1593978-1-77202-050-2 PDF
3. Ontario Ministry of the Environment and Climate Change, 2018. [Technical Assessment and Standards Development Branch] Ontario Air Standards for Sulphur Dioxide (SO2). [Online]
4. Human Toxicology and Air Standards Section, Technical Assessment and Standards Development Branch, Ontario Ministry of the Environment, Conservation and Parks (MECP). 2020. Ontario's Ambient Air Quality Criteria. MECP, Toronto, ON, Canada.

9 GENERAL STATEMENT OF LIMITATIONS

This report entitled "2025 Q3 Ambient Air Quality Monitoring Report", dated December 15, 2025 was prepared by RWDI AIR Inc. ("RWDI") for The Regional Municipality of Durham ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). This report was prepared using scientific principles, published methodologies and professional judgment in assessing available information and data. The findings presented within this document are based on available data within the limits of the existing information, budgeted scope of work, and schedule. The conclusions contained in this report are based on the information available to RWDI when this report was prepared; subsequent changes made by the Client after the date of this report have not been reflected in the conclusions.

This report was prepared for the exclusive use of The Regional Municipality of Durham and the MECP. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. RWDI accepts no responsibility for damages, if any, suffered by any third party as result of decisions made or actions based on this report.

APPENDIX A

Table A1: 2025 Summary Statistics for Q3

Courtice Monitoring Station Data Statistics	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean					Maximum 24 hr Rolling Mean					Monthly Mean					Valid Data				
Compound	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2
Units	ppb	($\mu g/m^3$)	ppb				($\mu g/m^3$)	ppb				($\mu g/m^3$)	ppb				(%)				
AAQC/CAAQS	67				200	40	27[A]			100											
July	105.9	92.4	42.9	20.8	33.2	55.7	62.0	10.0	2.3	8.9	11.5	11.0	4.4	0.7	3.8	2.4	99.7	99.7	99.7	99.7	99.6
August	105.0	56.9	40.8	27.8	30.0	57.6	47.6	9.1	2.6	7.5	10.2	10.3	4.9	0.7	4.2	2.1	99.5	99.5	99.5	99.5	99.6
September	271.2	23.0	58.9	41.2	32.5	87.7	11.8	17.2	6.4	12.6	14.7	5.5	6.9	1.2	5.8	5.2	99.7	99.4	99.4	99.4	99.0
Q3 Arithmetic Mean												8.9	5.4	0.9	4.6	3.3	99.6	99.5	99.5	99.5	99.4

Rundle Monitoring Station Data Statistics	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean					Maximum 24 hr Rolling Mean					Monthly Mean					Valid Data				
Compound	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2	$PM_{2.5}$	NO_x	NO	NO_2	SO_2
Units	ppb	($\mu g/m^3$)	ppb				($\mu g/m^3$)	ppb				($\mu g/m^3$)	ppb				(%)				
AAQC/CAAQS	67				200	40	27[A]			100											
July	5.8	89.3	55.1	24.9	31.9	3.4	59.2	12.0	4.8	8.8	1.6	10.6	4.0	0.9	3.0	0.4	99.7	99.7	99.7	99.7	99.5
August	3.7	49.2	29.9	14.3	19.2	2.3	40.9	10.1	3.3	8.1	0.4	9.5	3.3	0.8	2.5	0.1	99.1	99.2	99.2	99.2	99.1
September	4.5	25.0	45.0	23.2	24.5	3.1	9.0	9.6	3.9	6.8	0.7	4.4	3.9	1.1	2.9	0.3	96.5	96.4	96.4	96.4	96.4
Q3 Arithmetic Mean												8.2	3.7	0.9	2.8	0.3	98.4	98.4	98.4	98.4	98.3

Event Statistics	Rolling Mean > 10 min AAQC for Courtice	Rolling Mean > 10 min AAQC for Rundle	Rolling Mean > 1 hr AAQC for Courtice			Rolling Mean > 1 hr AAQC for Rundle			Rolling Mean > 24 hr AAQC for Courtice Monitoring Station			Rolling Mean > 24 hr AAQC for Rundle Monitoring Station		
Compound	SO_2	SO_2	$PM_{2.5}$	NO_2	SO_2	$PM_{2.5}$	NO_2	SO_2	$PM_{2.5}$	NO_2	SO_2	$PM_{2.5}$	NO_2	SO_2
Units	No.	No.	No.			No.			No.			No.		
July	8	0		0	7		0	0	N/A	0		N/A	0	
August	5	0		0	3		0	0	N/A	0		N/A	0	
September	11	0		0	7		0	0	N/A	0		N/A	0	
Q3 Total	24	0		0	17		0	0	N/A	0		N/A	0	

Courtice Station MET Statistics	Maximum 1 hr Mean					Minimum 1 hr Mean					Monthly Mean					Total	Valid Data					
Parameter	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	Rain	WS	WD	Temp	RH	Pres	Rain
Units	(km/hr)	(°C)	(%)	"Hg	mm	(km/hr)	(°C)	(%)	"Hg	mm	(km/hr)	(°C)	(%)	"Hg	mm	mm	(%)					
July	29.5	31.1	100.0	30.0	8.7	0.2	12.5	35.3	29.4	0.0	8.0	22.5	77.2	29.7	0.0	24.2	100.0	100.0	100.0	100.0	100.0	100.0
August	24.4	30.8	100.0	30.1	4.2	0.3	8.3	29.7	29.5	0.0	9.1	20.8	71.6	29.8	0.0	13.6	100.0	100.0	100.0	100.0	100.0	100.0
September	30.0	24.9	100.0	30.1	8.8	0.2	7.8	29.0	29.3	0.0	8.7	17.7	76.5	29.8	0.1	61.6	100.0	100.0	100.0	100.0	100.0	100.0
Q3 Arithmetic Mean											8.6	20.4	75.1	29.8	0.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0

Rundle Station MET Statistics	Maximum 1 hr Mean				Minimum 1 hr Mean				Monthly Mean				Total	Valid Data				
Parameter	WS	Temp	RH	Rain	WS	Temp	RH	Rain	WS	Temp	RH	Rain	Rain	WS	WD	Temp	RH	Rain
Units	(km/hr)	(°C)	(%)	mm	(km/hr)	(°C)	(%)	mm	(km/hr)	(°C)	(%)	mm	mm	(%)				
July	24.6	30.8	100.0	11.0	0.1	11.3	35.4	0.0	6.9	22.2	76.3	0.0	32.6	100.0	100.0	100.0	100.0	100.0
August	18.6	30.2	100.0	11.5	0.1	8.4	32.1	0.0	6.8	20.1	73.3	0.1	40.6	99.6	99.6	99.6	99.6	99.6
September	24.3	25.8	100.0	7.9	0.0	7.0	32.7	0.0	6.1	16.6	78.6	0.1	68.0	96.8	96.8	96.8	96.8	96.8
Q3 Arithmetic Mean									6.6	19.6	76.1	0.1	141.2	98.8	98.8	98.8	98.8	98.8

A - PM2.5 CAAQS 3-year average of annual 98th percentile of the daily 24-hr average concentrations; this value is used "as is" for comparison to the 24-hour measurement of air quality data

Table A2: 2025 Q3 Station Courtice Monitoring Results for PM2.5

Data Statistics	Rolling Mean > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$
	No.	(ug/m^3)	(ug/m^3)	(ug/m^3)	No.	%
July	N/A	11.0	92.4	62.0	742	99.7
August	N/A	10.3	56.9	47.6	740	99.5
September	N/A	5.5	23.0	11.8	718	99.7

Table A3: 2025 Q3 Station Rundle Monitoring Results for PM2.5

Data Statistics	Rolling Mean > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$	$PM_{2.5}$
	No.	(ug/m^3)	(ug/m^3)	(ug/m^3)	No.	%
July	N/A	10.6	89.3	59.2	742	99.7
August	N/A	9.5	49.2	40.9	737	99.1
September	N/A	4.4	25.0	9.0	695	96.5

Table A4: 2025 Q3 Station Courtice Monitoring Results for NOx

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO_x	NO_x	NO_x	NO_x	NO_x	NO_x	NO_x
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
July	N/A	N/A	4.4	42.9	10.0	742	99.7
August	N/A	N/A	4.9	40.8	9.1	740	99.5
September	N/A	N/A	6.9	58.9	17.2	716	99.4

Table A5:2025 Q3 Station Rundle Monitoring Results for NOx

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO_x	NO_x	NO_x	NO_x	NO_x	NO_x	NO_x
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
July	N/A	N/A	4.0	55.1	12.0	742	99.7
August	N/A	N/A	3.3	29.9	10.1	738	99.2
September	N/A	N/A	3.9	45.0	9.6	694	96.4

Table A6: 2025 Q3 Station Courtice Monitoring Results for NO

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO	NO	NO	NO	NO	NO	NO
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
July	N/A	N/A	0.7	20.8	2.3	742	99.7
August	N/A	N/A	0.7	27.8	2.6	740	99.5
September	N/A	N/A	1.2	41.2	6.4	716	99.4

Table A7: 2025 Q3 Station Rundle Monitoring Results for NO

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO	NO	NO	NO	NO	NO	NO
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
July	N/A	N/A	0.9	24.9	4.8	742	99.7
August	N/A	N/A	0.8	14.3	3.3	738	99.2
September	N/A	N/A	1.1	23.2	3.9	694	96.4

Table A8: 2025 Q3 Station Courtice Monitoring Results for NO2

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO_2	NO_2	NO_2	NO_2	NO_2	NO_2	NO_2
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
July	0	0	3.8	33.2	8.9	742	99.7
August	0	0	4.2	30.0	7.5	740	99.5
September	0	0	5.8	32.5	12.6	716	99.4

Table A9: 2025 Q3 Station Rundle Monitoring Results for NO2

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO_2	NO_2	NO_2	NO_2	NO_2	NO_2	NO_2
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
July	0	0	3.0	31.9	8.8	742	99.7
August	0	0	2.5	19.2	8.1	738	99.2
September	0	0	2.9	24.5	6.8	694	96.4

Table A10: 2025 Q3 Station Courtice Monitoring Results for SO2

Data Statistics	Events > 10 min AAQC	Events > 1 hr AAQC	Arithmetic Mean	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	SO_2	SO_2	SO_2	SO_2	SO_2	SO_2	SO_2	SO_2
	No.	No.	(ppb)	(ppb)	(ppb)	(ppb)	No.	%
July	8	7	2.4	105.9	55.7	11.5	741	99.6
August	5	3	2.1	105.0	57.6	10.2	741	99.6
September	11	7	5.2	271.2	87.7	14.7	713	99.0

Table A11: 2025 Q3 Station Rundle Monitoring Results for SO2

Data Statistics	Events > 10 min AAQC	Events > 1 hr AAQC	Arithmetic Mean	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	SO_2	SO_2	SO_2	SO_2	SO_2	SO_2	SO_2	SO_2
	No.	No.	(ppb)	(ppb)	(ppb)	(ppb)	No.	%
July	0	0	0.4	5.8	3.4	1.6	740	99.5
August	0	0	0.1	3.7	2.3	0.4	737	99.1
September	0	0	0.3	4.5	3.1	0.7	694	96.4

Table A12: 2025 Q3 Courtice Meterological Station Windspeed Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Data
Month	Wind Speed	Wind Speed	Wind Speed	Wind Speed
	(km/hr)	(km/hr)	(km/hr)	(%)
July	29.5	0.2	8.0	100.0
August	24.4	0.3	9.1	100.0
September	30.0	0.2	8.7	100.0

Table A13: 2025 Q3 Rundle Meterological Station Windspeed Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Hours
Month	Wind Speed	Wind Speed	Wind Speed	Wind Speed
	(km/hr)	(km/hr)	(km/hr)	(%)
July	24.6	0.1	6.9	100.0
August	18.6	0.1	6.8	99.6
September	24.3	0.0	6.1	96.8

Table A14: 2025 Q3 Courtice Meterological Station Wind Direction Data Summary

MET Statistics	Valid Data
Month	Wind Direction
	(%)
July	100.0
August	100.0
September	100.0

Table A15: 2025 Q3 Rundle Meterological Station Wind Direction Data Summary

MET Statistics	Valid Data
Month	Wind Direction
	(%)
July	100.0
August	99.6
September	96.8

Table A16: 2025 Q3 Courtice Meterological Station Temperature Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Data
Month	Temperature	Temperature	Temperature	Temperature
	(°C)	(°C)	(°C)	(%)
July	31.1	12.5	22.5	100.0
August	30.8	8.3	20.8	100.0
September	24.9	7.8	17.7	100.0

Table A17: 2025 Q3 Rundle Meterological Station Temperature Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Data
Month	Temperature	Temperature	Temperature	Temperature
	(°C)	(°C)	(°C)	(%)
July	30.8	11.3	22.2	100.0
August	30.2	8.4	20.1	99.6
September	25.8	7.0	16.6	96.8

Table A18: 2025 Q3 Courtice Meterological Station Relative Humidity Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Data
Month	Relative Humidity	Relative Humidity	Relative Humidity	Relative Humidity
	(%)	(%)	(%)	(%)
July	100.0	35.3	77.2	100.0
August	100.0	29.7	71.6	100.0
September	100.0	29.0	76.5	100.0

Table A19: 2025 Q3 Rundle Meterological Station Relative Humidity Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Data
Month	Relative Humidity	Relative Humidity	Relative Humidity	Relative Humidity
	(%)	(%)	(%)	(%)
July	100.0	35.4	76.3	100.0
August	100.0	32.1	73.3	99.6
September	100.0	32.7	78.6	96.8

Table A20: 2025 Q3 Courtice Meterological Station Precipitation Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Total	Valid Data
Month	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation
	(mm)	(mm)	(mm)	(mm)	%
July	8.7	0.0	0.0	24.2	100.0
August	4.2	0.0	0.0	13.6	100.0
September	8.8	0.0	0.1	61.6	100.0

Table A21: 2025 Q3 Rundle Meterological Station Precipitation Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Total	Valid Data
Month	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation
	(mm)	(mm)	(mm)	(mm)	%
July	11.0	0.0	0.0	32.6	100.0
August	11.5	0.0	0.1	40.6	99.6
September	7.9	0.0	0.1	68.0	96.8

Table A22: 2025 Q3 Courtice Meterological Station Pressure Data Summary

MET Statistics	Maximum 1 hr Mean	Minimum 1 hr	Monthly Mean	Valid Data
Month	Pressure	Pressure	Pressure	Pressure
	("Hg)	("Hg)	("Hg)	(%)
July	30.0	29.4	29.7	100.0
August	30.1	29.5	29.8	100.0
September	30.1	29.3	29.8	100.0

APPENDIX B

Table B1: Summary of Sample Flow Rate and Sample Duration for Dioxins & Furans

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m3)	No.	(min)	(m3)
July 24, 2025	Invalid			BU2502092-001	1440	272
August 17, 2025	BU2502312-001	1440	277	Invalid		
September 10, 2025	Invalid			Invalid		

Table B2: 2025 Courtice Station Q3 Monitoring Results for Dioxins & Furans

Contaminant	Units	24-Jul-25	17-Aug-25	10-Sep-25	MECP Criteria (µg/m3)	No. > Criteria	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg TEQ/m3		4.69E-03		-	-	4.69E-03	4.69E-03	4.69E-03	-	4.69E-03	-	1	33
1,2,3,7,8-PeCDD	pg TEQ/m3		3.07E-03		-	-	3.07E-03	3.07E-03	3.07E-03	-	3.07E-03	-	1	33
1,2,3,4,7,8-HxCDD	pg TEQ/m3		3.25E-04		-	-	3.25E-04	3.25E-04	3.25E-04	-	3.25E-04	-	1	33
1,2,3,6,7,8-HxCDD	pg TEQ/m3		3.07E-04		-	-	3.07E-04	3.07E-04	3.07E-04	-	3.07E-04	-	1	33
1,2,3,7,8,9-HxCDD	pg TEQ/m3		3.07E-04		-	-	3.07E-04	3.07E-04	3.07E-04	-	3.07E-04	-	1	33
1,2,3,4,6,7,8-HpCDD	pg TEQ/m3		1.22E-04		-	-	1.22E-04	1.22E-04	1.22E-04	-	1.22E-04	-	1	33
OCDD	pg TEQ/m3		8.12E-06		-	-	8.12E-06	8.12E-06	8.12E-06	-	8.12E-06	-	1	33
2,3,7,8-TCDF	pg TEQ/m3		3.79E-04		-	-	3.79E-04	3.79E-04	3.79E-04	-	3.79E-04	-	1	33
1,2,3,7,8-PeCDF	pg TEQ/m3		7.04E-05		-	-	7.04E-05	7.04E-05	7.04E-05	-	7.04E-05	-	1	33
2,3,4,7,8-PeCDF	pg TEQ/m3	Invalid	1.48E-03	Invalid	-	-	1.48E-03	1.48E-03	1.48E-03	-	1.48E-03	-	1	33
1,2,3,4,7,8-HxCDF	pg TEQ/m3		2.17E-04		-	-	2.17E-04	2.17E-04	2.17E-04	-	2.17E-04	-	1	33
1,2,3,6,7,8-HxCDF	pg TEQ/m3		2.17E-04		-	-	2.17E-04	2.17E-04	2.17E-04	-	2.17E-04	-	1	33
2,3,4,6,7,8-HxCDF	pg TEQ/m3		2.17E-04		-	-	2.17E-04	2.17E-04	2.17E-04	-	2.17E-04	-	1	33
1,2,3,7,8,9-HxCDF	pg TEQ/m3		2.53E-04		-	-	2.53E-04	2.53E-04	2.53E-04	-	2.53E-04	-	1	33
1,2,3,4,6,7,8-HpCDF	pg TEQ/m3		3.43E-05		-	-	3.43E-05	3.43E-05	3.43E-05	-	3.43E-05	-	1	33
1,2,3,4,7,8,9-HpCDF	pg TEQ/m3		8.23E-05		-	-	8.23E-05	8.23E-05	8.23E-05	-	8.23E-05	-	1	33
OCDF	pg TEQ/m3		2.22E-06		-	-	2.22E-06	2.22E-06	2.22E-06	-	2.22E-06	-	1	33
Total Toxic Equivalency	pg TEQ/m3		1.18E-02		0.1	0	1.18E-02	1.18E-02	1.18E-02	-	1.18E-02	-	1	33

NOTE: All non-detectable results were reported as 1/2 of the detection limit
[1] O. Reg. 419/05 Schedule 6, Upper Risk Thresholds
N/A - Results not available for the release of this report
July & September samples are invalid, therefor no maximum concentration can be calculated

Table B3: 2025 Rundle Road Station Q3 Monitoring Results for Dioxins & Furans

Contaminant	Units	24-Jul-25	17-Aug-25	10-Sep-25	MECP Criteria (µg/m3)	No. > Criteria	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg TEQ/m3	9.02E-04	Invalid	Invalid	-	-	9.02E-04	9.02E-04	9.02E-04	9.02E-04	-	-	1	33
1,2,3,7,8-PeCDD	pg TEQ/m3	1.49E-03			-	-	1.49E-03	1.49E-03	1.49E-03	1.49E-03	-	-	1	33
1,2,3,4,7,8-HxCDD	pg TEQ/m3	1.56E-04			-	-	1.56E-04	1.56E-04	1.56E-04	1.56E-04	-	-	1	33
1,2,3,6,7,8-HxCDD	pg TEQ/m3	1.49E-04			-	-	1.49E-04	1.49E-04	1.49E-04	1.49E-04	-	-	1	33
1,2,3,7,8,9-HxCDD	pg TEQ/m3	1.45E-04			-	-	1.45E-04	1.45E-04	1.45E-04	1.45E-04	-	-	1	33
1,2,3,4,6,7,8-HpCDD	pg TEQ/m3	5.56E-04			-	-	5.56E-04	5.56E-04	5.56E-04	5.56E-04	-	-	1	33
OCDD	pg TEQ/m3	5.19E-05			-	-	5.19E-05	5.19E-05	5.19E-05	5.19E-05	-	-	1	33
2,3,7,8-TCDF	pg TEQ/m3	1.23E-04			-	-	1.23E-04	1.23E-04	1.23E-04	1.23E-04	-	-	1	33
1,2,3,7,8-PeCDF	pg TEQ/m3	3.31E-05			-	-	3.31E-05	3.31E-05	3.31E-05	3.31E-05	-	-	1	33
2,3,4,7,8-PeCDF	pg TEQ/m3	3.09E-04			-	-	3.09E-04	3.09E-04	3.09E-04	3.09E-04	-	-	1	33
1,2,3,4,7,8-HxCDF	pg TEQ/m3	1.20E-04			-	-	1.20E-04	1.20E-04	1.20E-04	1.20E-04	-	-	1	33
1,2,3,6,7,8-HxCDF	pg TEQ/m3	1.18E-04			-	-	1.18E-04	1.18E-04	1.18E-04	1.18E-04	-	-	1	33
2,3,4,6,7,8-HxCDF	pg TEQ/m3	6.63E-05			-	-	6.63E-05	6.63E-05	6.63E-05	6.63E-05	-	-	1	33
1,2,3,7,8,9-HxCDF	pg TEQ/m3	7.18E-05			-	-	7.18E-05	7.18E-05	7.18E-05	7.18E-05	-	-	1	33
1,2,3,4,6,7,8-HpCDF	pg TEQ/m3	1.26E-04			-	-	1.26E-04	1.26E-04	1.26E-04	1.26E-04	-	-	1	33
1,2,3,4,7,8,9-HpCDF	pg TEQ/m3	7.18E-06			-	-	7.18E-06	7.18E-06	7.18E-06	7.18E-06	-	-	1	33
OCDF	pg TEQ/m3	2.15E-06			-	-	2.15E-06	2.15E-06	2.15E-06	2.15E-06	-	-	1	33
Total Toxic Equivalency	pg TEQ/m3	4.43E-03			0.1	0	4.43E-03	4.43E-03	4.43E-03	4.43E-03	-	-	1	33

NOTE: All non-detectable results were reported as 1/2 of the detection limit

[1] O. Reg. 419/05 Schedule 6, Upper Risk Thresholds

N/A - Results not available for the release of this report

August & September samples are invalid, therefor no maximum concentration can be calculated

Table B4: Summary of Sample Flow Rate and Sample Duration for PAHs

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m3)	No.	(min)	(m3)
July 12, 2025	Invalid			Invalid		
July 24, 2025	Invalid			BU2502092-001	1440	272
August 5, 2025	BU2502214-001	1440	272	BU2502214-002	1440	293
August 17, 2025	BU2502312-001	1440	277	Invalid		
August 29, 2025	BU2502465-001	1440	290	BU2502465-002	1440	307
September 10, 2025	Invalid			Invalid		
September 22, 2025	Invalid			Invalid		

Table B5: 2025 Courtice Station Q3 Monitoring Results for PAHs

Contaminant	Units	*MECP Criteria*	12-Jul-25	24-Jul-25	5-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	No. > Criteria	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m3	-			5.04E+00	8.56E+00	6.03E+00			-	6.54E+00	5.04E+00	8.56E+00	-	8.56E+00	-	3	43
2-Methylnaphthalene	ng/m3	-			9.20E+00	1.82E+01	9.20E+00			-	1.22E+01	9.20E+00	1.82E+01	-	1.82E+01	-	3	43
Acenaphthene	ng/m3	-			7.25E+00	1.61E+01	5.10E+00			-	9.49E+00	5.10E+00	1.61E+01	-	1.61E+01	-	3	43
Acenaphthylene	ng/m3	-			2.40E-01	4.87E-01	1.68E+00			-	8.01E-01	2.40E-01	1.68E+00	-	1.68E+00	-	3	43
Anthracene	ng/m3	-			3.66E-01	4.62E-01	4.21E-01			-	4.16E-01	3.66E-01	4.62E-01	-	4.62E-01	-	3	43
Benzo(a)Anthracene	ng/m3	-			7.43E-03	1.34E-02	2.96E-02			-	1.68E-02	7.43E-03	2.96E-02	-	2.96E-02	-	3	43
Benzo(a)fluorene	ng/m3	-			1.49E-02	1.93E-02	3.30E-02			-	2.24E-02	1.49E-02	3.30E-02	-	3.30E-02	-	3	43
Benzo(a)Pyrene (Historically High)	ng/m3	*0.05[1]*			5.78E-03	9.85E-03	1.45E-02			0	1.00E-02	5.78E-03	1.45E-02	-	1.45E-02	-	3	43
Benzo(b)Fluoranthene	ng/m3	-			1.02E-02	2.08E-02	4.38E-02			-	2.49E-02	1.02E-02	4.38E-02	-	4.38E-02	-	3	43
Benzo(b)fluorene	ng/m3	-			6.25E-03	5.27E-03	2.10E-02			-	1.08E-02	5.27E-03	2.10E-02	-	2.10E-02	-	3	43
Benzo(e)Pyrene	ng/m3	-			1.29E-02	1.28E-02	3.04E-02			-	1.87E-02	1.28E-02	3.04E-02	-	3.04E-02	-	3	43
Benzo(g,h,i)Perylene	ng/m3	-			1.00E-02	1.45E-02	2.60E-02			-	1.68E-02	1.00E-02	2.60E-02	-	2.60E-02	-	3	43
Benzo(k)Fluoranthene	ng/m3	-	Invalid	Invalid	1.84E-03	1.27E-02	2.36E-02	Invalid	Invalid	-	1.27E-02	1.84E-03	2.36E-02	-	2.36E-02	-	3	43
Biphenyl	ng/m3	-			6.00E+00	4.95E+00	2.80E+00			-	4.58E+00	2.80E+00	6.00E+00	-	6.00E+00	-	3	43
Chrysene	ng/m3	-			2.82E-02	3.93E-02	5.38E-02			-	4.04E-02	2.82E-02	5.38E-02	-	5.38E-02	-	3	43
Dibenzo(a,h)Anthracene	ng/m3	-			1.84E-03	8.59E-03	9.38E-03			-	6.60E-03	1.84E-03	9.38E-03	-	9.38E-03	-	3	43
Fluoranthene	ng/m3	-			1.40E+00	2.96E+00	9.75E-01			-	1.78E+00	9.75E-01	2.96E+00	-	2.96E+00	-	3	43
Fluorene	ng/m3	-			4.49E+00	8.92E+00	2.79E+00			-	5.40E+00	2.79E+00	8.92E+00	-	8.92E+00	-	3	43
Indeno(1,2,3-cd)Pyrene	ng/m3	-			7.17E-03	1.69E-02	3.05E-02			-	1.82E-02	7.17E-03	3.05E-02	-	3.05E-02	-	3	43
Naphthalene	ng/m3	*22500*			9.42E+00	2.36E+01	2.22E+01			0	1.84E+01	9.42E+00	2.36E+01	-	2.36E+01	-	3	43
o-Terphenyl	ng/m3	-			3.07E-02	9.49E-03	9.86E-03			-	1.67E-02	9.49E-03	3.07E-02	-	3.07E-02	-	3	43
Perylene	ng/m3	-			1.84E-03	1.80E-03	1.72E-03			-	1.79E-03	1.72E-03	1.84E-03	-	1.84E-03	-	3	43
Phenanthrene	ng/m3	-			7.06E+00	1.15E+01	4.69E+00			-	7.76E+00	4.69E+00	1.15E+01	-	1.15E+01	-	3	43
Pyrene	ng/m3	-			5.19E-01	8.05E-01	4.96E-01			-	6.07E-01	4.96E-01	8.05E-01	-	8.05E-01	-	3	43
Tetralin	ng/m3	-			8.50E-01	9.67E-01	1.55E+00			-	1.12E+00	8.50E-01	1.55E+00	-	1.55E+00	-	3	43
Total PAH	ng/m3	-			5.20E+01	9.78E+01	5.83E+01			-	6.93E+01	5.20E+01	9.78E+01	-	9.78E+01	-	3	43

NOTE: All non-detectable results were reported as 1/2 of the detection limit

[1] O. Reg. 419/05 Schedule 6, Upper Risk Thresholds

July & September samples are invalid, therefor no maximum concentration can be calculated

Table B6: 2025 Rundle Road Station Q3 Monitoring Results for PAHs

Contaminant	Units	*MECP Criteria*	12-Jul-25	24-Jul-25	5-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	No. > Criteria	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m3	-		7.29E+00	7.68E+00		4.30E+00			-	6.42E+00	4.30E+00	7.68E+00	7.29E+00	7.68E+00	-	3	43
2-Methylnaphthalene	ng/m3	-		1.38E+01	1.48E+01		8.04E+00			-	1.22E+01	8.04E+00	1.48E+01	1.38E+01	1.48E+01	-	3	43
Acenaphthene	ng/m3	-		1.48E+01	1.75E+01		6.71E+00			-	1.30E+01	6.71E+00	1.75E+01	1.48E+01	1.75E+01	-	3	43
Acenaphthylene	ng/m3	-		3.10E-01	3.55E-01		2.56E-01			-	3.07E-01	2.56E-01	3.55E-01	3.10E-01	3.55E-01	-	3	43
Anthracene	ng/m3	-		1.03E+00	1.34E+00		3.20E-01			-	8.97E-01	3.20E-01	1.34E+00	1.03E+00	1.34E+00	-	3	43
Benzo(a)Anthracene	ng/m3	-		3.28E-02	2.93E-02		7.82E-03			-	2.33E-02	7.82E-03	3.28E-02	3.28E-02	2.93E-02	-	3	43
Benzo(a)fluorene	ng/m3	-		4.97E-02	5.19E-02		1.41E-02			-	3.85E-02	1.41E-02	5.19E-02	4.97E-02	5.19E-02	-	3	43
Benzo(a)Pyrene (Historically High)	ng/m3	*0.05[1]*		2.72E-02	1.15E-02		3.91E-03			0	1.42E-02	3.91E-03	2.72E-02	2.72E-02	1.15E-02	-	3	43
Benzo(b)Fluoranthene	ng/m3	-		5.34E-02	2.62E-02		1.21E-02			-	3.06E-02	1.21E-02	5.34E-02	5.34E-02	2.62E-02	-	3	43
Benzo(b)fluorene	ng/m3	-		3.00E-02	2.19E-02		7.03E-03			-	1.96E-02	7.03E-03	3.00E-02	3.00E-02	2.19E-02	-	3	43
Benzo(e)Pyrene	ng/m3	-		3.01E-02	2.34E-02		7.88E-03			-	2.05E-02	7.88E-03	3.01E-02	3.01E-02	2.34E-02	-	3	43
Benzo(g,h,i)Perylene	ng/m3	-		3.26E-02	1.58E-02		8.89E-03			-	1.91E-02	8.89E-03	3.26E-02	3.26E-02	1.58E-02	-	3	43
Benzo(k)Fluoranthene	ng/m3	-	Invalid	2.00E-02	9.76E-03	Invalid	5.41E-03	Invalid	Invalid	-	1.17E-02	5.41E-03	2.00E-02	2.00E-02	9.76E-03	-	3	43
Biphenyl	ng/m3	-		4.12E+00	8.15E+00		1.56E+00			-	4.61E+00	1.56E+00	8.15E+00	4.12E+00	8.15E+00	-	3	43
Chrysene	ng/m3	-		1.07E-01	1.11E-01		2.24E-02			-	8.00E-02	2.24E-02	1.11E-01	1.07E-01	1.11E-01	-	3	43
Dibenzo(a,h)Anthracene	ng/m3	-		6.22E-03	3.65E-03		5.15E-03			-	5.01E-03	3.65E-03	6.22E-03	6.22E-03	5.15E-03	-	3	43
Fluoranthene	ng/m3	-		4.42E+00	4.09E+00		1.11E+00			-	3.21E+00	1.11E+00	4.42E+00	4.42E+00	4.09E+00	-	3	43
Fluorene	ng/m3	-		9.13E+00	9.55E+00		3.62E+00			-	7.43E+00	3.62E+00	9.55E+00	9.13E+00	9.55E+00	-	3	43
Indeno(1,2,3-cd)Pyrene	ng/m3	-		2.53E-02	1.13E-02		1.07E-02			-	1.58E-02	1.07E-02	2.53E-02	2.53E-02	1.13E-02	-	3	43
Naphthalene	ng/m3	*22500*		2.29E+01	1.92E+01		1.64E+01			0	1.95E+01	1.64E+01	2.29E+01	2.29E+01	1.92E+01	-	3	43
o-Terphenyl	ng/m3	-		1.51E-02	3.04E-02		3.68E-03			-	1.64E-02	3.68E-03	3.04E-02	1.51E-02	3.04E-02	-	3	43
Perylene	ng/m3	-		5.41E-03	3.92E-03		1.63E-03			-	3.65E-03	1.63E-03	5.41E-03	5.41E-03	3.92E-03	-	3	43
Phenanthrene	ng/m3	-		1.65E+01	1.73E+01		5.37E+00			-	1.31E+01	5.37E+00	1.73E+01	1.65E+01	1.73E+01	-	3	43
Pyrene	ng/m3	-		1.67E+00	1.67E+00		4.49E-01			-	1.26E+00	4.49E-01	1.67E+00	1.67E+00	1.67E+00	-	3	43
Tetralin	ng/m3	-		1.18E+00	1.18E+00		1.45E+00			-	1.27E+00	1.18E+00	1.45E+00	1.18E+00	1.45E+00	-	3	43
Total PAH	ng/m3	-		9.77E+01	1.03E+02		4.97E+01			-	8.36E+01	4.97E+01	1.03E+02	9.77E+01	1.03E+02	-	3	43

NOTE: All non-detectable results were reported as 1/2 of the detection limit
[1] O. Reg. 419/05 Schedule 6, Upper Risk Thresholds
September samples are invalid, therefor no maximum concentration can be calculated

Table B7: Summary of Sample Flow Rate and Sample Duration for TSP & Metals

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m3)	No.	(min)	(m3)
July 6, 2025	BU2501948-003	1440	1621	BU2501948-001	1440	1599
July 12, 2025	BU2501948-002	1440	1616	BU2502093-005	1440	1561
July 18, 2025	Invalid			BU2502093-004	1440	1607
July 24, 2025	Invalid			BU2502093-003	1440	1582
July 30, 2025	BU2502215-001	1440	1654	BU2502215-003	1440	1596
August 5, 2025	BU2502215-002	1440	1644	BU2502215-004	1440	1582
August 11, 2025	BU2502313-002	1440	1626	BU2502313-004	1440	1591
August 17, 2025	BU2502313-001	1440	1655	BU2502313-003	1440	1677
August 23, 2025	BU2502466-002	1440	1609	BU2502466-004	1440	1639
August 29, 2025	BU2502466-001	1440	1627	BU2502466-003	1440	1671
September 4, 2025	BU2502710-004	1440	1646	BU2502710-001	1440	1615
September 10, 2025	BU2502710-005	1440	1617	BU2502710-002	1440	1635
September 16, 2025	BU2502710-006	1440	1628	BU2502710-003	1440	1642
September 22, 2025	BU2502710-007	1440	1632	Invalid		
September 28, 2025	BU2502827-001	1440	1612	BU2502827-002	1440	1661

Table B8: 2025 Courtice Station Q3 Monitoring Results for TSP and Metals

Contaminant	Units	6-Jul-25	12-Jul-25	18-Jul-25	24-Jul-25	30-Jul-25	5-Aug-25	11-Aug-25	17-Aug-25	23-Aug-25	29-Aug-25	4-Sep-25	10-Sep-25	16-Sep-25	22-Sep-25	28-Sep-25	MECP Criteria (µg/m3)	No. > Criteria	Geometric Mean	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
Total particulate	µg/m3	43.74	15.47	Invalid	Invalid	51.53	49.38	35.85	27.43	29.53	21.63	21.63	27.59	32.19	20.71	18.37	*120*	0	28.4	30.4	15.47	51.53	51.53	49.38	32.19	13	87
Aluminum (Al)	µg/m3	3.73E-01	1.71E-01			2.96E-01	3.11E-01	2.00E-01	1.06E-01	1.87E-01	1.27E-01	1.09E-01	1.56E-01	3.08E-01	7.41E-02	1.03E-01	-	-	1.72E-01	1.94E-01	7.41E-02	3.73E-01	3.73E-01	3.11E-01	3.08E-01	13	87
Antimony (Sb)	µg/m3	1.28E-03	7.98E-04			9.13E-04	7.78E-04	1.14E-03	8.76E-04	1.21E-03	7.01E-04	1.80E-03	2.46E-03	1.46E-03	7.90E-04	9.12E-04	*25*	0	1.08E-03	1.16E-03	7.01E-04	2.46E-03	1.28E-03	1.21E-03	2.46E-03	13	87
Arsenic (As)	µg/m3	9.25E-04	9.28E-04			9.07E-04	9.12E-04	9.22E-04	9.06E-04	9.33E-04	9.22E-04	3.04E-03	9.28E-04	9.21E-04	9.19E-04	9.31E-04	*0.3*	0	1.01E-03	1.08E-03	9.06E-04	3.04E-03	9.28E-04	9.33E-04	3.04E-03	13	87
Barium (Ba)	µg/m3	3.06E-02	5.77E-03			1.46E-02	8.21E-03	1.09E-02	7.80E-03	1.01E-02	8.91E-03	1.20E-02	1.58E-02	1.16E-02	4.60E-03	9.25E-03	*10*	0	1.03E-02	1.16E-02	4.60E-03	3.06E-02	3.06E-02	1.09E-02	1.58E-02	13	87
Beryllium (Be)	µg/m3	1.54E-05	1.55E-05			1.51E-05	1.52E-05	1.54E-05	1.51E-05	1.55E-05	1.54E-05	1.52E-05	1.55E-05	1.54E-05	1.53E-05	1.55E-05	*0.01*	0	1.53E-05	1.53E-05	1.51E-05	1.55E-05	1.55E-05	1.55E-05	1.55E-05	13	87
Bismuth (Bi)	µg/m3	5.12E-03	5.57E-04			5.44E-04	5.47E-04	5.53E-04	5.44E-04	5.60E-04	5.53E-04	5.47E-04	5.57E-04	5.53E-04	5.51E-04	5.58E-04	-	-	6.55E-04	9.03E-04	5.44E-04	5.12E-03	5.12E-03	5.60E-04	5.58E-04	13	87
Boron (B)	µg/m3	4.63E-03	4.64E-03			4.54E-03	1.09E-02	4.61E-03	4.53E-03	4.66E-03	4.61E-03	4.56E-03	4.64E-03	4.61E-03	4.60E-03	4.65E-03	*120*	0	4.92E-03	5.09E-03	4.53E-03	1.09E-02	4.64E-03	1.09E-02	4.65E-03	13	87
Cadmium (Cd)	µg/m3	1.78E-04	2.00E-04			1.32E-04	2.21E-04	1.44E-04	1.09E-04	8.95E-05	9.22E-05	4.14E-04	1.14E-04	1.35E-04	9.74E-05	8.13E-05	*0.025*	0	1.38E-04	1.54E-04	8.13E-05	4.14E-04	2.00E-04	2.21E-04	4.14E-04	13	87
Chromium (Cr)	µg/m3	4.19E-03	2.97E-03			2.90E-03	2.19E-03	2.21E-03	1.03E-03	2.55E-03	2.09E-03	2.31E-03	2.85E-03	2.70E-03	1.04E-03	2.17E-03	*0.5*	0	2.25E-03	2.40E-03	1.03E-03	4.19E-03	4.19E-03	2.55E-03	2.85E-03	13	87
Cobalt (Co)	µg/m3	1.91E-04	1.10E-04			2.31E-04	1.79E-04	1.87E-04	1.00E-04	1.37E-04	1.04E-04	9.60E-05	1.76E-04	1.94E-04	6.37E-05	8.69E-05	*0.1*	0	1.33E-04	1.43E-04	6.37E-05	2.31E-04	2.31E-04	1.87E-04	1.94E-04	13	87
Copper (Cu)	µg/m3	9.99E-02	3.99E-02			3.81E-02	1.37E-02	2.85E-02	9.06E-02	3.04E-02	9.89E-02	4.36E-02	1.08E-01	4.76E-02	3.45E-02	3.33E-02	*50*	0	4.60E-02	5.44E-02	1.37E-02	1.08E-01	9.99E-02	9.89E-02	1.08E-01	13	87
Iron (Fe)	µg/m3	6.29E-01	3.21E-01			7.14E-01	4.96E-01	5.14E-01	3.82E-01	5.29E-01	3.69E-01	4.03E-01	6.19E-01	6.10E-01	1.54E-01	3.05E-01	*4*	0	4.34E-01	4.65E-01	1.54E-01	7.14E-01	7.14E-01	5.29E-01	6.19E-01	13	87
Lead (Pb)	µg/m3	4.00E-03	3.27E-03			2.59E-03	3.27E-03	3.20E-03	2.16E-03	3.17E-03	1.97E-03	2.88E-03	3.49E-03	4.04E-03	3.47E-03	2.13E-03	*0.5*	0	2.98E-03	3.05E-03	1.97E-03	4.04E-03	4.00E-03	3.27E-03	4.04E-03	13	87
Magnesium (Mg)	µg/m3	5.55E-01	2.29E-01			4.32E-01	3.33E-01	2.79E-01	1.49E-01	2.57E-01	1.49E-01	1.84E-01	2.16E-01	3.05E-01	1.12E-01	1.92E-01	-	-	2.37E-01	2.61E-01	1.12E-01	5.55E-01	5.55E-01	3.33E-01	3.05E-01	13	87
Manganese (Mn)	µg/m3	2.46E-02	9.03E-03			2.09E-02	1.52E-02	1.40E-02	1.14E-02	1.53E-02	8.42E-03	1.07E-02	1.37E-02	1.57E-02	5.97E-03	1.19E-02	*0.4*	0	1.28E-02	1.36E-02	5.97E-03	2.46E-02	2.46E-02	1.53E-02	1.57E-02	13	87
Mercury (Hg)	µg/m3	1.30E-05	9.28E-06			1.03E-05	9.73E-06	1.29E-05	3.02E-06	1.18E-05	3.07E-06	2.55E-05	4.21E-05	1.90E-05	1.29E-05	1.61E-05	*2*	0	1.16E-05	1.45E-05	3.02E-06	4.21E-05	1.30E-05	1.29E-05	4.21E-05	13	87
Molybdenum (Mo)	µg/m3	6.16E-03	2.35E-03			1.80E-03	6.51E-04	1.80E-03	2.40E-03	1.81E-03	4.69E-03	2.51E-03	3.17E-03	2.00E-03	1.24E-03	1.23E-03	*120*	0	2.10E-03	2.45E-03	6.51E-04	6.16E-03	6.16E-03	4.69E-03	3.17E-03	13	87
Nickel (Ni)	µg/m3	1.44E-03	1.24E-03			2.03E-03	1.54E-03	1.45E-03	1.20E-03	1.53E-03	1.15E-03	1.17E-03	1.56E-03	1.54E-03	1.12E-03	8.81E-04	*0.2*	0	1.34E-03	1.37E-03	8.81E-04	2.03E-03	2.03E-03	1.54E-03	1.56E-03	13	87
Phosphorus (P)	µg/m3	2.31E-01	2.32E-01			2.27E-01	2.28E-01	2.31E-01	2.27E-01	2.33E-01	2.30E-01	2.28E-01	2.32E-01	2.30E-01	2.30E-01	2.33E-01	-	-	2.30E-01	2.30E-01	2.27E-01	2.33E-01	2.32E-01	2.33E-01	2.33E-01	13	87
Selenium (Se)	µg/m3	2.84E-03	1.36E-03			3.93E-04	3.95E-04	1.23E-03	3.93E-04	1.31E-03	3.99E-04	3.95E-04	8.66E-04	3.99E-04	1.29E-03	4.03E-04	*10*	0	7.05E-04	8.97E-04	3.93E-04	2.84E-03	2.84E-03	1.31E-03	1.29E-03	13	87
Silver (Ag)	µg/m3	5.98E-05	5.82E-05			2.72E-05	2.74E-05	2.77E-05	2.72E-05	2.80E-05	2.77E-05	2.73E-05	7.73E-05	2.76E-05	2.76E-05	2.79E-05	*1*	0	3.35E-05	3.62E-05	2.72E-05	7.73E-05	5.98E-05	2.80E-05	7.73E-05	13	87
Strontium (Sr)	µg/m3	2.12E-02	4.15E-03			1.28E-02	8.51E-03	5.60E-03	3.75E-03	8.21E-03	5.65E-03	4.01E-03	7.05E-03	8.66E-03	2.14E-03	3.23E-03	*120*	0	6.09E-03	7.31E-03	2.14E-03	2.12E-02	2.12E-02	8.51E-03	8.66E-03	13	87
Thallium (Tl)	µg/m3	2.78E-05	2.78E-05			2.72E-05	2.74E-05	2.77E-05	2.72E-05	2.80E-05	2.77E-05	2.73E-05	2.78E-05	2.76E-05	2.76E-05	2.79E-05	-	-	2.76E-05	2.76E-05	2.72E-05	2.80E-05	2.78E-05	2.80E-05	2.79E-05	13	87
Tin (Sn)	µg/m3	1.41E-03	7.86E-04			9.62E-04	5.47E-04	9.16E-04	9.37E-04	9.82E-04	5.90E-04	1.09E-03	1.38E-03	9.58E-04	7.72E-04	7.01E-04	*10*	0	8.92E-04	9.25E-04	5.47E-04	1.41E-03	1.41E-03	9.82E-04	1.38E-03	13	87
Titanium (Ti)	µg/m3	1.42E-02	3.40E-03			1.69E-02	1.64E-02	9.22E-03	3.32E-03	9.95E-03	9.83E-03	3.34E-03	8.66E-03	1.29E-02	3.37E-03	3.41E-03	*120*	0	7.32E-03	8.84E-03	3.32E-03	1.69E-02	1.69E-02	1.64E-02	1.29E-02	13	87
Uranium (U)	µg/m3	2.42E-05	3.54E-05			2.53E-05	5.69E-05	1.55E-05	8.46E-06	1.48E-05	6.88E-06	9.30E-06	4.54E-05	1.86E-05	5.76E-06	8.69E-06	*0.3*	0	1.64E-05	2.12E-05	5.76E-06	5.69E-05	3.54E-05	5.69E-05	4.54E-05	13	87
Vanadium (V)	µg/m3	1.54E-03	1.55E-03			1.51E-03	1.52E-03	1.54E-03	1.51E-03	1.55E-03	1.54E-03	1.52E-03	1.55E-03	1.54E-03	1.53E-03	1.55E-03	*2*	0	1.53E-03	1.53E-03	1.51E-03	1.55E-03	1.55E-03	1.55E-03	1.55E-03	13	87
Zinc (Zn)	µg/m3	4.10E-02	5.51E-02			7.32E-02	6.99E-02	3.64E-02	4.60E-02	5.70E-02	3.68E-02	5.80E-02	3.80E-02	4.47E-02	7.90E-02	4.31E-02	*120*	0	5.04E-02	5.22E-02	3.64E-02	7.90E-02	7.32E-02	6.99E-02	7.90E-02	13	87
Zirconium (Zr)	µg/m3	6.17E-04	6.19E-04			6.05E-04	6.08E-04	6.15E-04	6.04E-04	6.22E-04	6.14E-04	6.08E-04	6.19E-04	6.14E-04	6.13E-04	6.20E-04	-	-	6.14E-04	6.14E-04	6.04E-04	6.22E-04	6.19E-04	6.22E-04	6.20E-04	13	87

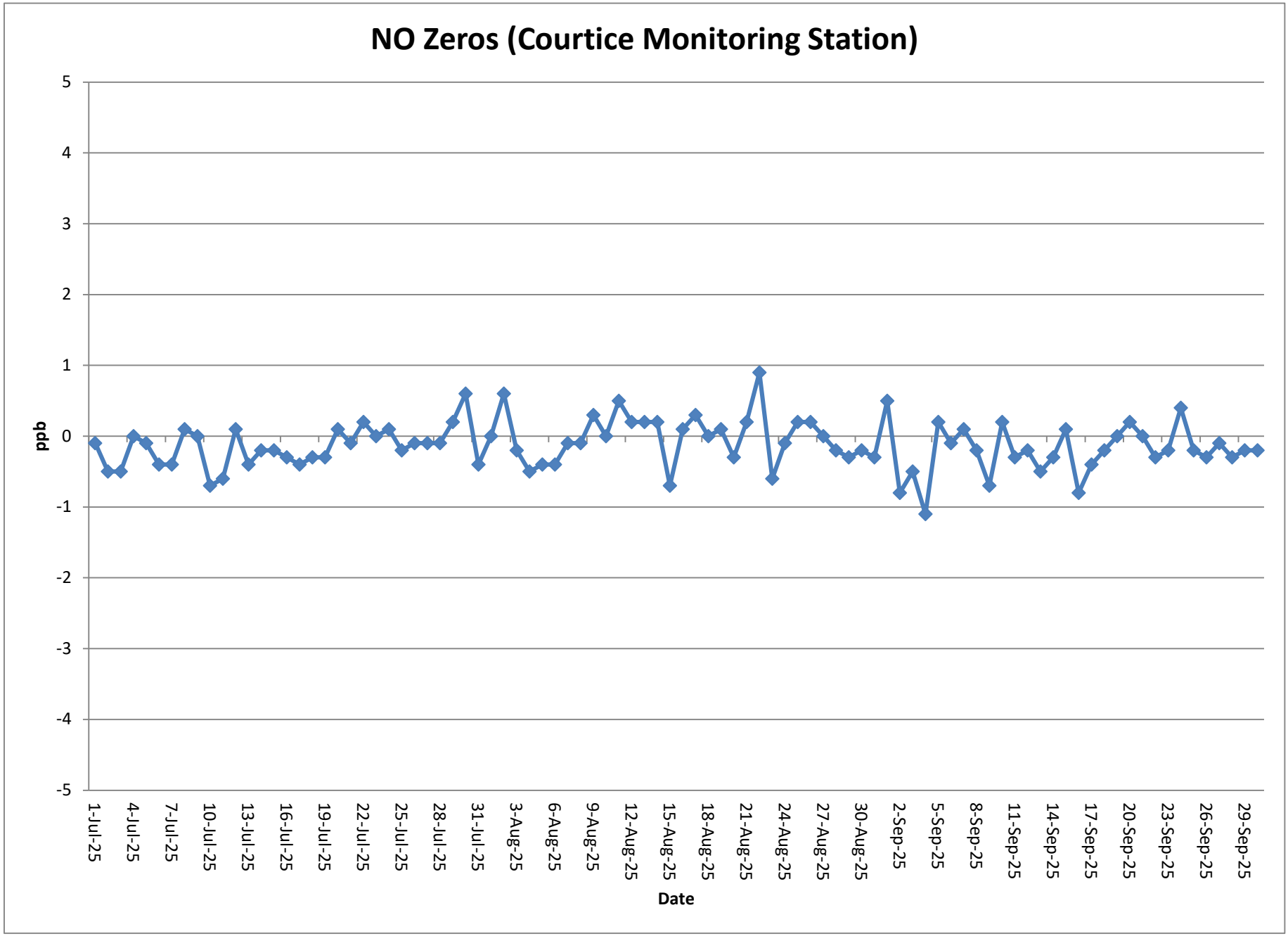
NOTE: All non-detectable results were reported as 1/2 of the detection limit

Table B9: 2025 Rundle Road Station Q3 Monitoring Results for TSP and Metals

Contaminant	Units	6-Jul-25	12-Jul-25	18-Jul-25	24-Jul-25	30-Jul-25	5-Aug-25	11-Aug-25	17-Aug-25	23-Aug-25	29-Aug-25	4-Sep-25	10-Sep-25	16-Sep-25	22-Sep-25	28-Sep-25	MECP Criteria (µg/m3)	No. > Criteria	Geometric Mean	Arithmetic Mean	Q3 Minimum Concentration	Q3 Maximum Concentration	July Maximum Concentration	August Maximum Concentration	September Maximum Concentration	Number of Valid Samples	% Valid data
Total particulate	µg/m3	32.95	41.19	14.81	30.47	42.73	65.74	37.26	21.41	27.89	15.02	16.41	29.24	36.18		18.48	*120*	0	28.0	30.7	14.81	65.74	42.73	65.74	36.18	14	93
Aluminum (Al)	µg/m3	2.21E-01	3.59E-01	1.07E-01	4.45E-01	1.99E-01	5.91E-01	2.30E-01	9.90E-02	1.53E-01	8.91E-02	8.67E-02	2.17E-01	2.50E-01		8.49E-02	-	-	1.85E-01	2.24E-01	8.49E-02	5.91E-01	4.45E-01	5.91E-01	2.50E-01	14	93
Antimony (Sb)	µg/m3	1.16E-03	1.20E-03	3.05E-04	8.09E-04	5.83E-04	5.88E-04	8.99E-04	4.65E-04	9.03E-04	3.71E-04	7.43E-04	1.21E-03	7.31E-04		5.96E-04	*25*	0	6.97E-04	7.54E-04	3.05E-04	1.21E-03	1.20E-03	9.03E-04	1.21E-03	14	93
Arsenic (As)	µg/m3	9.38E-04	9.61E-04	9.34E-04	9.48E-04	9.40E-04	9.48E-04	9.43E-04	8.94E-04	9.15E-04	8.97E-04	9.29E-04	9.18E-04	9.14E-04		9.03E-04	*0.3*	0	9.27E-04	9.27E-04	8.94E-04	9.61E-04	9.61E-04	9.48E-04	9.29E-04	14	93
Barium (Ba)	µg/m3	3.09E-02	1.23E-02	4.39E-03	9.29E-03	9.27E-03	1.06E-02	1.01E-02	6.92E-03	8.79E-03	5.38E-03	7.93E-03	1.35E-02	8.71E-03		5.17E-03	*10*	0	9.03E-03	1.02E-02	4.39E-03	3.09E-02	3.09E-02	1.06E-02	1.35E-02	14	93
Beryllium (Be)	µg/m3	1.56E-05	1.60E-05	1.56E-05	1.58E-05	1.57E-05	1.58E-05	1.57E-05	1.49E-05	1.53E-05	1.50E-05	1.55E-05	1.53E-05	1.52E-05		1.50E-05	*0.01*	0	1.55E-05	1.55E-05	1.49E-05	1.60E-05	1.60E-05	1.58E-05	1.55E-05	14	93
Bismuth (Bi)	µg/m3	5.44E-03	5.77E-04	5.60E-04	5.69E-04	5.64E-04	5.69E-04	5.66E-04	5.37E-04	5.49E-04	5.38E-04	5.57E-04	5.51E-04	5.48E-04		5.42E-04	-	-	6.54E-04	9.05E-04	5.37E-04	5.44E-03	5.44E-03	5.69E-04	5.57E-04	14	93
Boron (B)	µg/m3	4.69E-03	4.80E-03	4.67E-03	4.74E-03	4.70E-03	1.26E-02	4.71E-03	4.47E-03	4.58E-03	4.49E-03	4.64E-03	4.59E-03	4.57E-03		4.51E-03	*120*	0	4.97E-03	5.20E-03	4.47E-03	1.26E-02	4.80E-03	1.26E-02	4.64E-03	14	93
Cadmium (Cd)	µg/m3	1.60E-04	1.58E-04	5.91E-05	1.32E-04	1.01E-04	1.50E-04	1.05E-04	5.49E-05	1.04E-04	5.68E-05	6.32E-05	9.91E-05	5.91E-05		6.86E-05	*0.025*	0	9.08E-05	9.79E-05	5.49E-05	1.60E-04	1.60E-04	1.50E-04	9.91E-05	14	93
Chromium (Cr)	µg/m3	3.38E-03	4.55E-03	2.80E-03	4.11E-03	2.38E-03	3.48E-03	2.51E-03	1.01E-03	2.26E-03	1.02E-03	1.05E-03	2.57E-03	1.04E-03		1.02E-03	*0.5*	0	2.06E-03	2.37E-03	1.01E-03	4.55E-03	4.55E-03	3.48E-03	2.57E-03	14	93
Cobalt (Co)	µg/m3	1.89E-04	2.77E-04	9.96E-05	2.44E-04	1.73E-04	3.83E-04	2.10E-04	1.24E-04	1.21E-04	9.09E-05	8.30E-05	2.03E-04	1.77E-04		7.28E-05	*0.1*	0	1.56E-04	1.75E-04	7.28E-05	3.83E-04	2.77E-04	3.83E-04	2.03E-04	14	93
Copper (Cu)	µg/m3	1.06E-01	9.80E-02	1.08E-01	1.14E-01	9.15E-02	4.82E-02	1.01E-01	1.07E-01	1.10E-01	9.81E-02	1.44E-01	1.38E-01	1.18E-01		1.66E-01	*50*	0	1.07E-01	1.10E-01	4.82E-02	1.66E-01	1.14E-01	1.10E-01	1.66E-01	14	93
Iron (Fe)	µg/m3	6.94E-01	7.94E-01	3.11E-01	1.09E+00	4.04E-01	1.31E+00	6.72E-01	2.44E-01	3.89E-01	1.30E-01	2.72E-01	5.30E-01	4.40E-01		2.06E-01	*4*	0	4.42E-01	5.34E-01	1.30E-01	1.31E+00	1.09E+00	1.31E+00	5.30E-01	14	93
Lead (Pb)	µg/m3	4.24E-03	4.74E-03	8.84E-04	3.39E-03	2.63E-03	2.60E-03	2.80E-03	2.09E-03	3.36E-03	1.68E-03	2.10E-03	3.34E-03	2.24E-03		2.32E-03	*0.5*	0	2.55E-03	2.74E-03	8.84E-04	4.74E-03	4.74E-03	3.36E-03	3.34E-03	14	93
Magnesium (Mg)	µg/m3	4.31E-01	7.17E-01	1.43E-01	4.17E-01	2.53E-01	4.97E-01	2.49E-01	9.96E-02	2.29E-01	9.81E-02	1.54E-01	2.74E-01	2.84E-01		1.46E-01	-	-	2.41E-01	2.85E-01	9.81E-02	7.17E-01	7.17E-01	4.97E-01	2.84E-01	14	93
Manganese (Mn)	µg/m3	2.10E-02	2.57E-02	6.47E-03	1.41E-02	1.43E-02	2.26E-02	1.47E-02	7.51E-03	2.16E-02	5.31E-03	8.24E-03	1.50E-02	1.45E-02	Invalid	8.49E-03	*0.4*	0	1.28E-02	1.43E-02	5.31E-03	2.57E-02	2.57E-02	2.26E-02	1.50E-02	14	93
Mercury (Hg)	µg/m3	2.88E-05	1.15E-05	1.18E-05	1.96E-05	6.89E-06	8.22E-06	1.57E-05	2.98E-06	1.16E-05	2.99E-06	2.97E-05	3.43E-05	1.40E-05		1.63E-05	*2*	0	1.22E-05	1.53E-05	2.98E-06	3.43E-05	2.88E-05	1.57E-05	3.43E-05	14	93
Molybdenum (Mo)	µg/m3	4.56E-03	4.38E-03	4.96E-03	5.43E-03	3.99E-03	2.67E-03	5.14E-03	4.19E-03	4.78E-03	4.95E-03	6.56E-03	5.95E-03	4.98E-03		4.41E-03	*120*	0	4.69E-03	4.78E-03	2.67E-03	6.56E-03	5.43E-03	5.14E-03	6.56E-03	14	93
Nickel (Ni)	µg/m3	1.62E-03	1.83E-03	1.00E-03	2.44E-03	1.48E-03	2.77E-03	1.65E-03	1.12E-03	1.50E-03	1.06E-03	1.19E-03	1.50E-03	1.16E-03		7.28E-04	*0.2*	0	1.42E-03	1.50E-03	7.28E-04	2.77E-03	2.44E-03	2.77E-03	1.50E-03	14	93
Phosphorus (P)	µg/m3	2.34E-01	2.40E-01	2.33E-01	5.63E-01	2.35E-01	2.37E-01	2.36E-01	2.24E-01	2.29E-01	2.24E-01	2.32E-01	2.29E-01	2.28E-01		2.26E-01	-	-	2.47E-01	2.55E-01	2.24E-01	5.63E-01	5.63E-01	2.37E-01	2.32E-01	14	93
Selenium (Se)	µg/m3	2.38E-03	1.54E-03	4.05E-04	1.26E-03	4.07E-04	4.11E-04	1.19E-03	3.88E-04	1.28E-03	3.89E-04	4.03E-04	3.98E-04	3.96E-04		3.91E-04	*10*	0	6.36E-04	8.03E-04	3.88E-04	2.38E-03	2.38E-03	1.28E-03	4.03E-04	14	93
Silver (Ag)	µg/m3	5.75E-05	7.49E-05	2.80E-05	9.74E-05	2.82E-05	2.84E-05	2.83E-05	2.68E-05	2.75E-05	2.69E-05	6.94E-05	8.08E-05	5.48E-05		6.62E-05	*1*	0	4.42E-05	4.97E-05	2.68E-05	9.74E-05	9.74E-05	2.84E-05	8.08E-05	14	93
Strontium (Sr)	µg/m3	1.36E-02	1.02E-02	3.55E-03	1.32E-02	5.58E-03	1.64E-02	5.91E-03	2.09E-03	3.30E-03	2.69E-03	3.22E-03	8.38E-03	9.81E-03		1.93E-03	*120*	0	5.64E-03	7.13E-03	1.93E-03	1.64E-02	1.36E-02	1.64E-02	9.81E-03	14	93
Thallium (Tl)	µg/m3	2.81E-05	2.88E-05	2.80E-05	1.39E-04	2.82E-05	7.84E-05	2.83E-05	2.68E-05	2.75E-05	2.69E-05	2.79E-05	2.75E-05	2.74E-05		2.71E-05	-	-	3.35E-05	3.93E-05	2.68E-05	1.39E-04	1.39E-04	7.84E-05	2.79E-05	14	93
Tin (Sn)	µg/m3	1.11E-03	1.43E-03	4.17E-04	1.06E-03	1.09E-03	5.88E-04	9.68E-04	5.61E-04	9.15E-04	6.10E-04	7.68E-04	1.29E-03	6.94E-04		9.51E-04	*10*	0	8.41E-04	8.89E-04	4.17E-04	1.43E-03	1.43E-03	9.68E-04	1.29E-03	14	93
Titanium (Ti)	µg/m3	1.19E-02	1.54E-02	3.42E-03	2.28E-02	1.00E-02	2.47E-02	1.01E-02	3.28E-03	7.32E-03	3.29E-03	3.41E-03	1.22E-02	1.22E-02		3.31E-03	*120*	0	8.04E-03	1.02E-02	3.28E-03	2.47E-02	2.28E-02	2.47E-02	1.22E-02	14	93
Uranium (U)	µg/m3	1.74E-05	2.86E-05	8.71E-06	8.09E-05	1.15E-05	7.78E-05	1.58E-05	6.44E-06	1.18E-05	4.85E-06	6.69E-06	3.66E-05	2.06E-05		7.04E-06	*0.3*	0	1.59E-05	2.39E-05	4.85E-06	8.09E-05	8.09E-05	7.78E-05	3.66E-05	14	93
Vanadium (V)	µg/m3	1.56E-03	1.60E-03	1.56E-03	4.11E-03	1.57E-03	1.58E-03	1.57E-03	1.49E-03	1.53E-03	1.50E-03	1.55E-03	1.53E-03	1.52E-03		1.50E-03	*2*	0	1.65E-03	1.73E-03	1.49E-03	4.11E-03	4.11E-03	1.58E-03	1.55E-03	14	93
Zinc (Zn)	µg/m3	5.96E-02	1.13E-01	2.37E-02	5.64E-02	1.01E-01	5.59E-02	4.18E-02	4.81E-02	6.96E-02	2.99E-02	4.07E-02	6.04E-02	3.41E-02		4.71E-02	*120*	0	5.11E-02	5.58E-02	2.37E-02	1.13E-01	1.13E-01	6.96E-02	6.04E-02	14	93
Zirconium (Zr)	µg/m3	6.25E-04	6.41E-04	6.22E-04	6.32E-04	6.27E-04	6.32E-04	6.28E-04	5.96E-04	6.10E-04	5.98E-04	6.19E-04	6.12E-04	6.09E-04		6.02E-04	-	-	6.18E-04	6.18E-04	5.96E-04	6.41E-04	6.41E-04	6.32E-04	6.19E-04	14	93

NOTE: All non-detectable results were reported as 1/2 of the detection limit

APPENDIX C


NO Zeros (Courtice Monitoring Station)
ppb
5
4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
31-Jul-25
3-Aug-25
6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
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5-Sep-25
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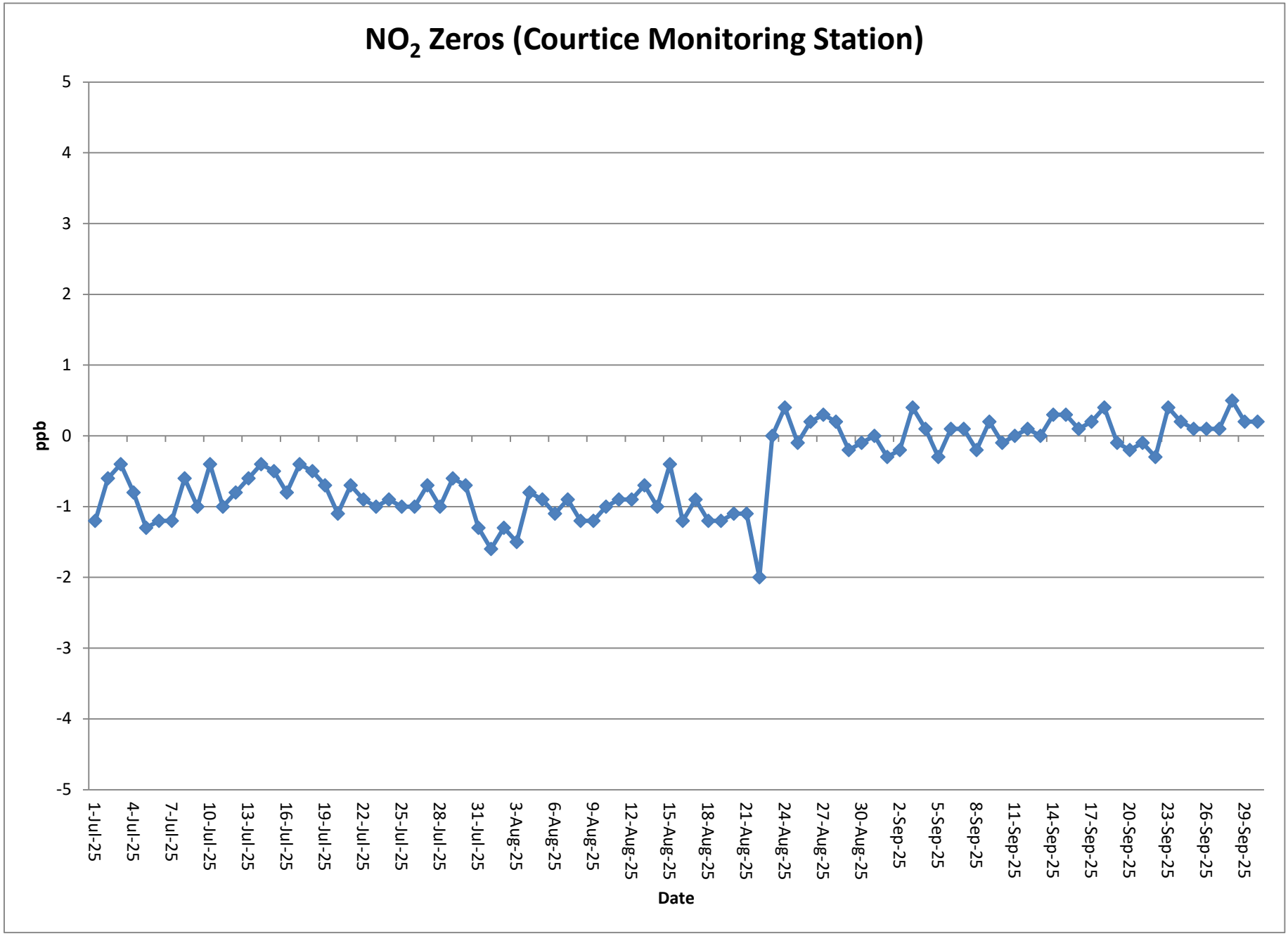
29-Sep-25
Date


NO2 Zeros (Courtice Monitoring Station)
ppb
5
4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
31-Jul-25
3-Aug-25
6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
21-Aug-25
24-Aug-25
27-Aug-25
30-Aug-25
2-Sep-25
5-Sep-25
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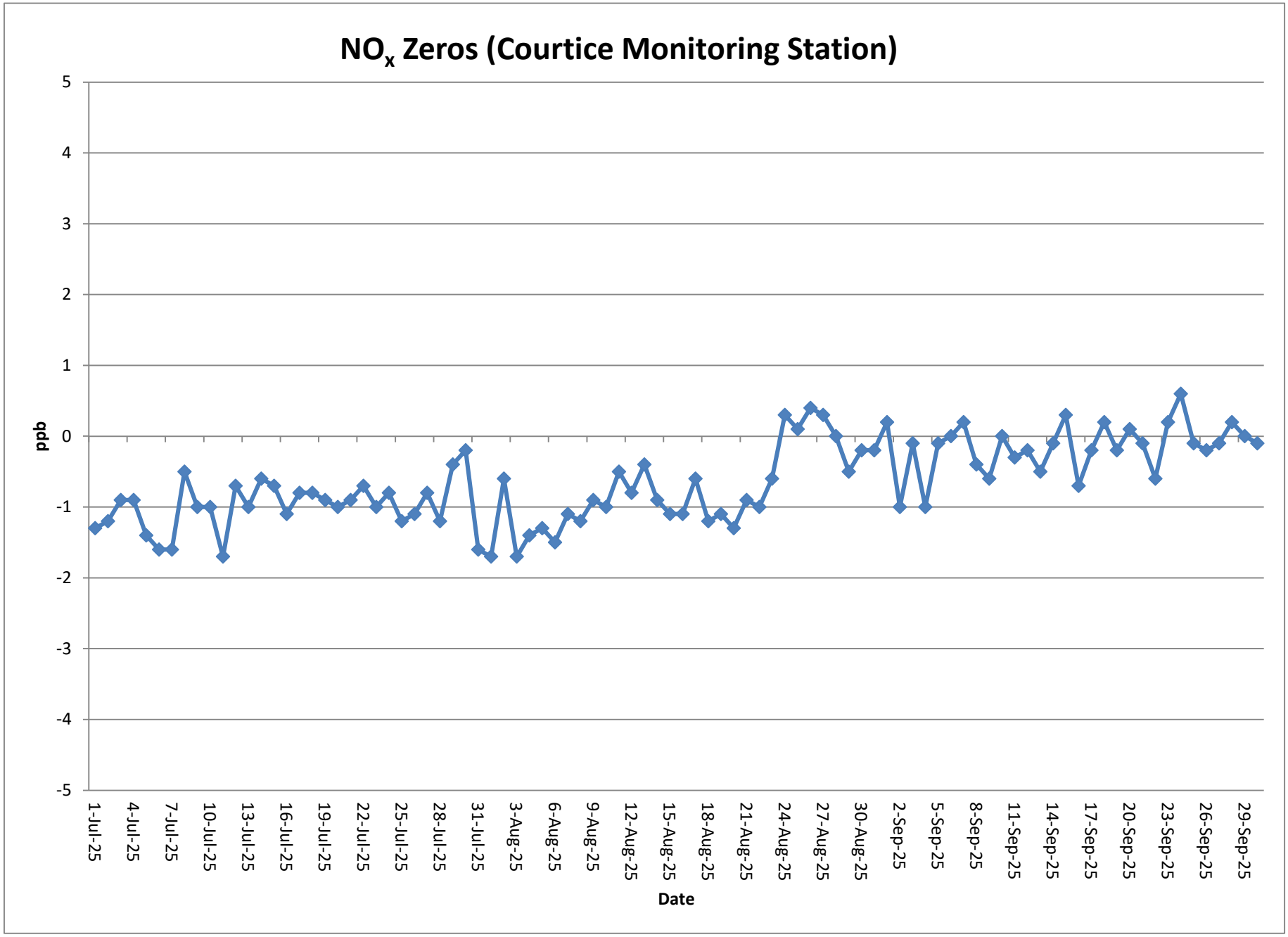
23-Sep-25
26-Sep-25
29-Sep-25
Date


NOx Zeros (Courtice Monitoring Station)
ppb
5
4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
31-Jul-25
3-Aug-25
6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
21-Aug-25
24-Aug-25
27-Aug-25
30-Aug-25
2-Sep-25
5-Sep-25
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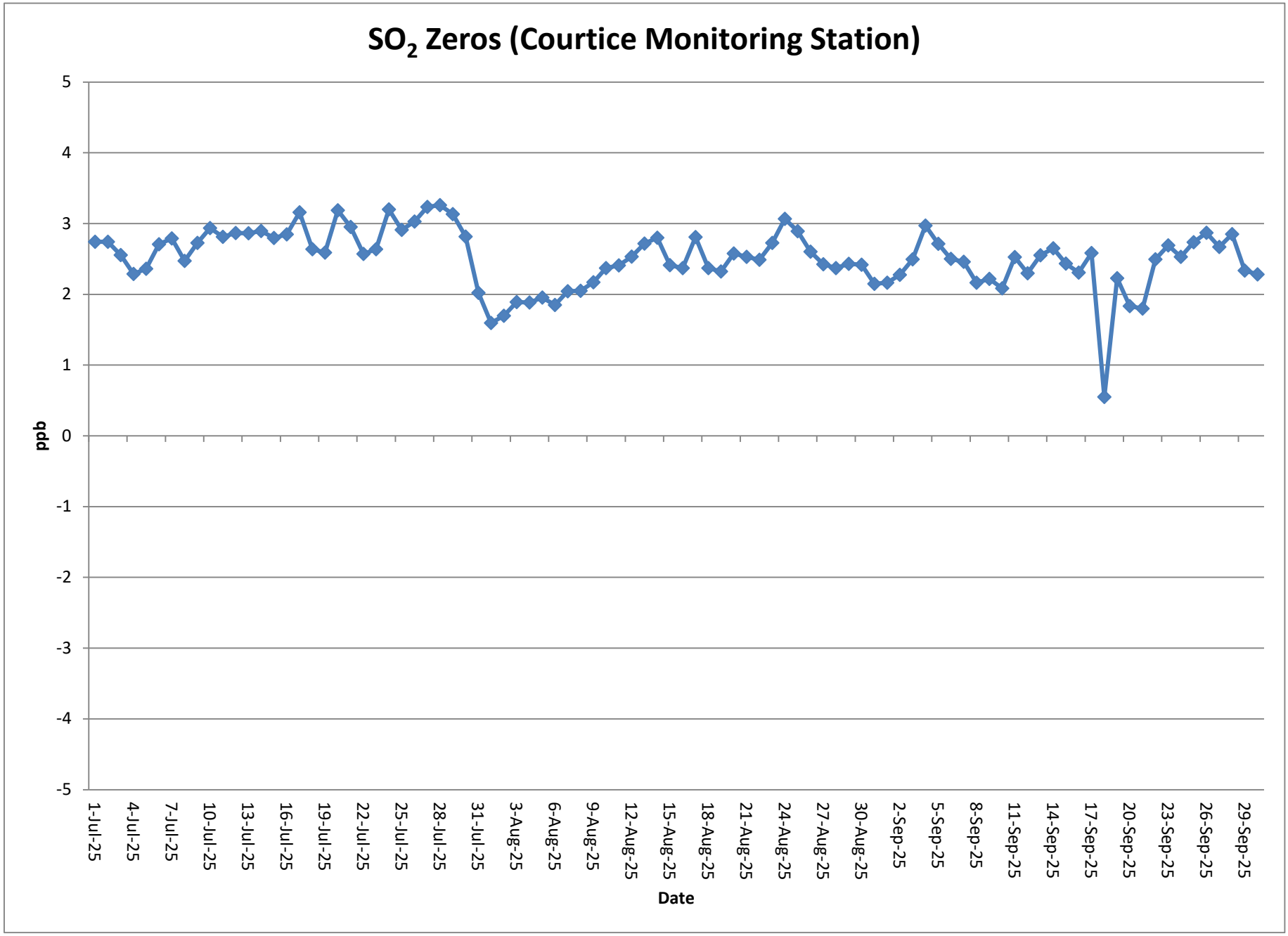
29-Sep-25
Date


SO2 Zeros (Courtice Monitoring Station)
ppb
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4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
31-Jul-25
3-Aug-25
6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
21-Aug-25
24-Aug-25
27-Aug-25
30-Aug-25
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5-Sep-25
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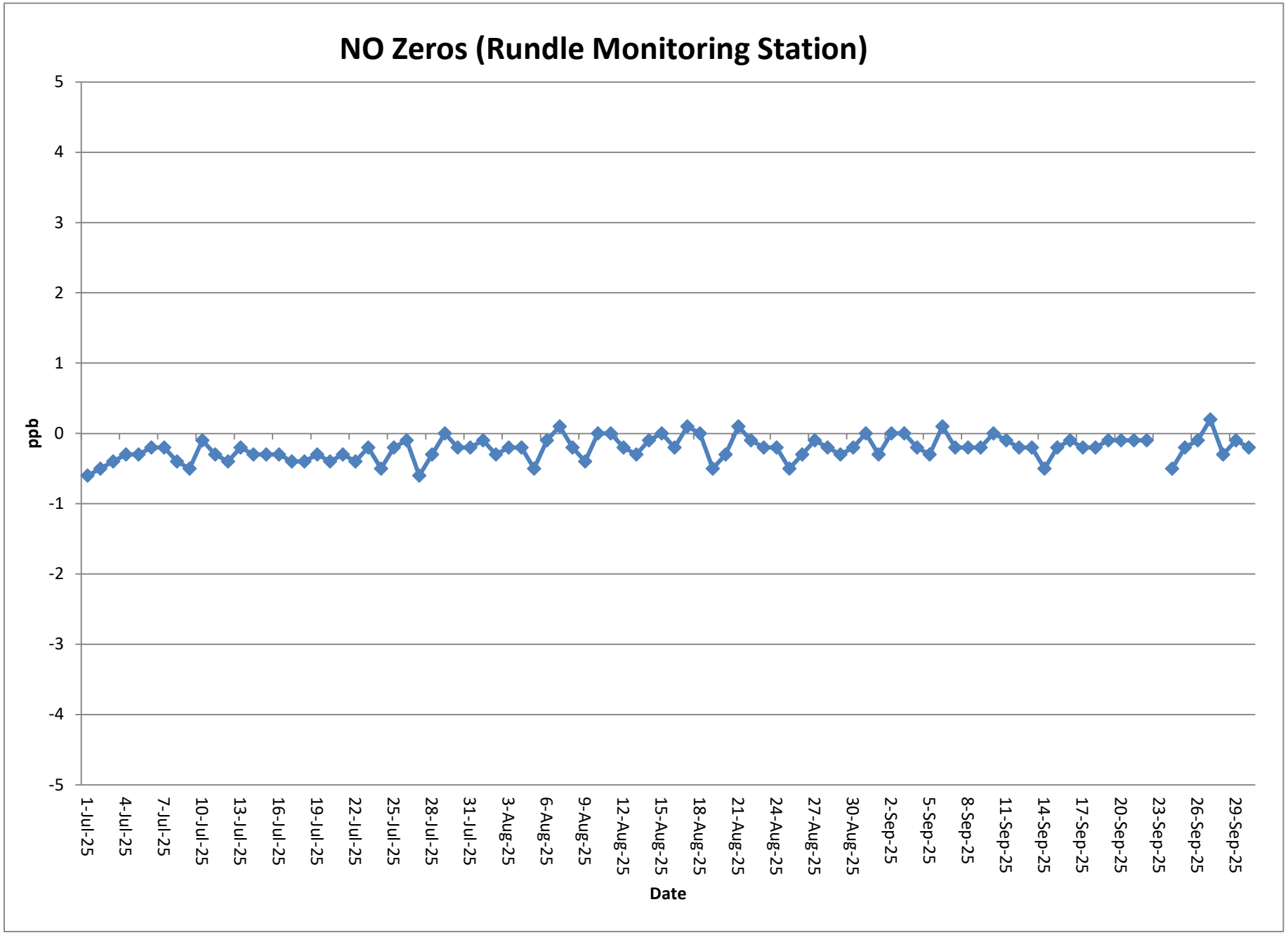
29-Sep-25
Date


NO Zeros (Rundle Monitoring Station)
ppb
5
4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
31-Jul-25
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6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
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24-Aug-25
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30-Aug-25
2-Sep-25
5-Sep-25
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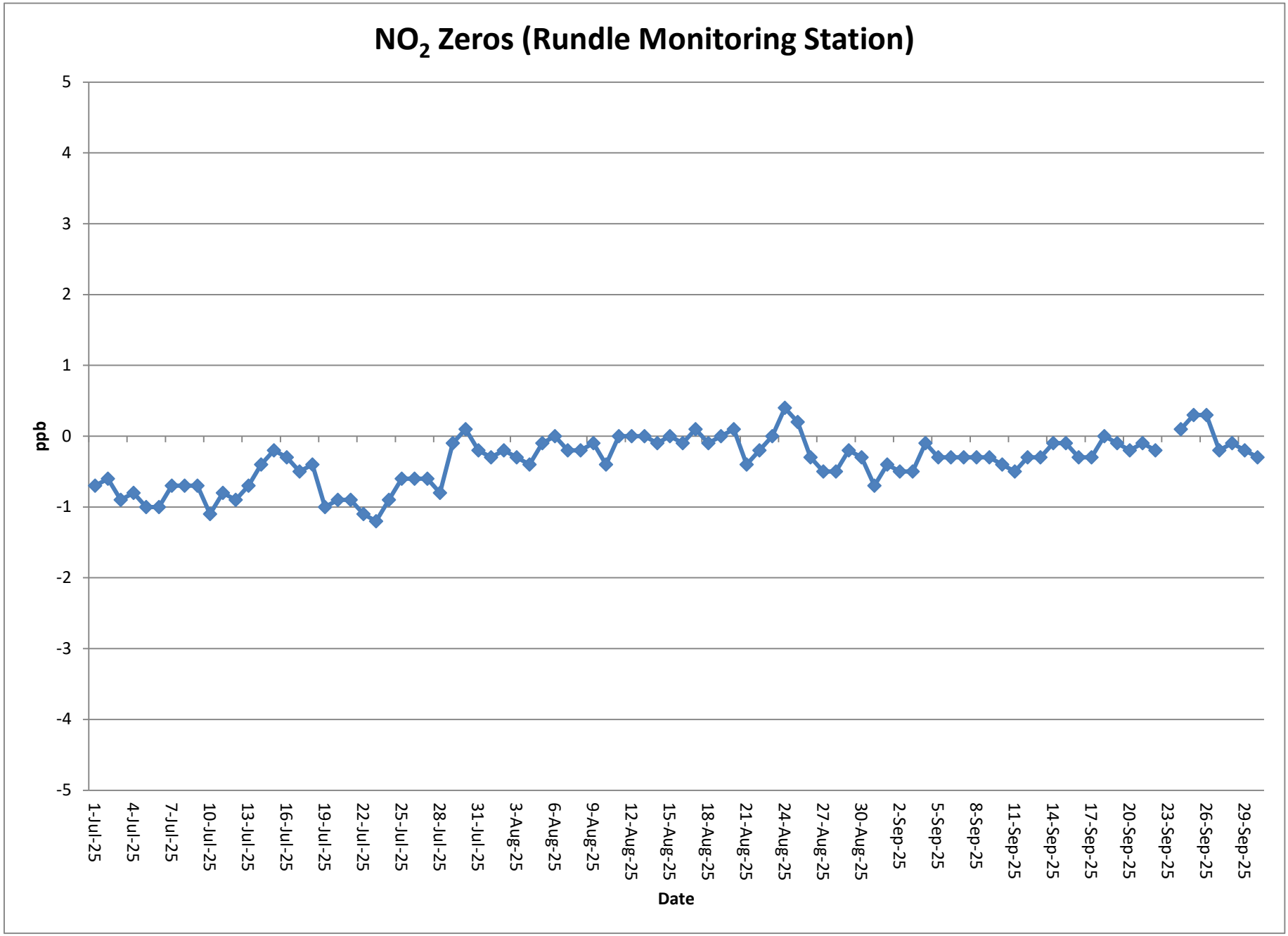
26-Sep-25
29-Sep-25
Date


NO2 Zeros (Rundle Monitoring Station)
ppb
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4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
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6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
21-Aug-25
24-Aug-25
27-Aug-25
30-Aug-25
2-Sep-25
5-Sep-25
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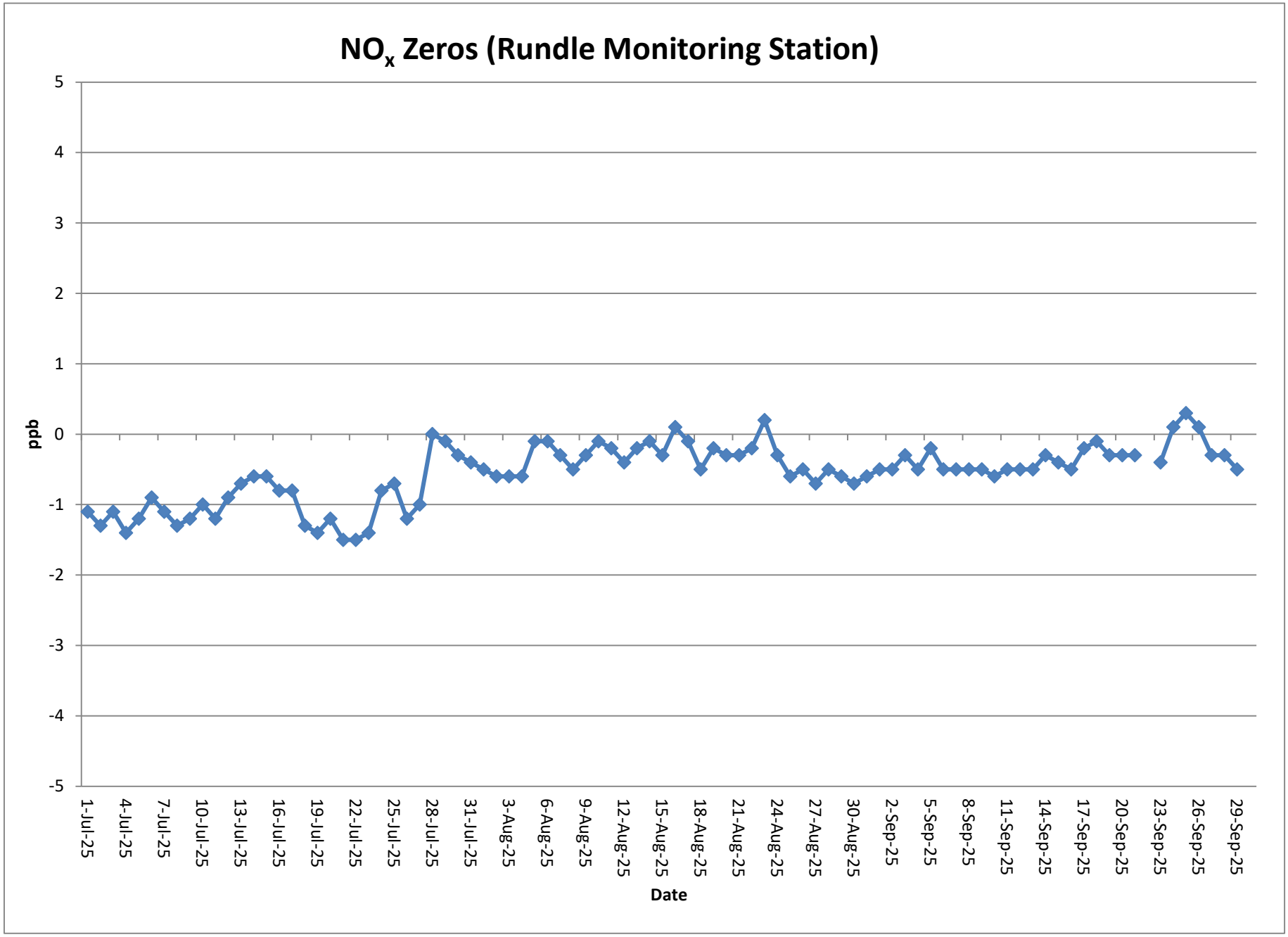
29-Sep-25
Date


NOx Zeros (Rundle Monitoring Station)
ppb
5
4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
7-Jul-25
10-Jul-25
13-Jul-25
16-Jul-25
19-Jul-25
22-Jul-25
25-Jul-25
28-Jul-25
31-Jul-25
3-Aug-25
6-Aug-25
9-Aug-25
12-Aug-25
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18-Aug-25
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27-Aug-25
30-Aug-25
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5-Sep-25
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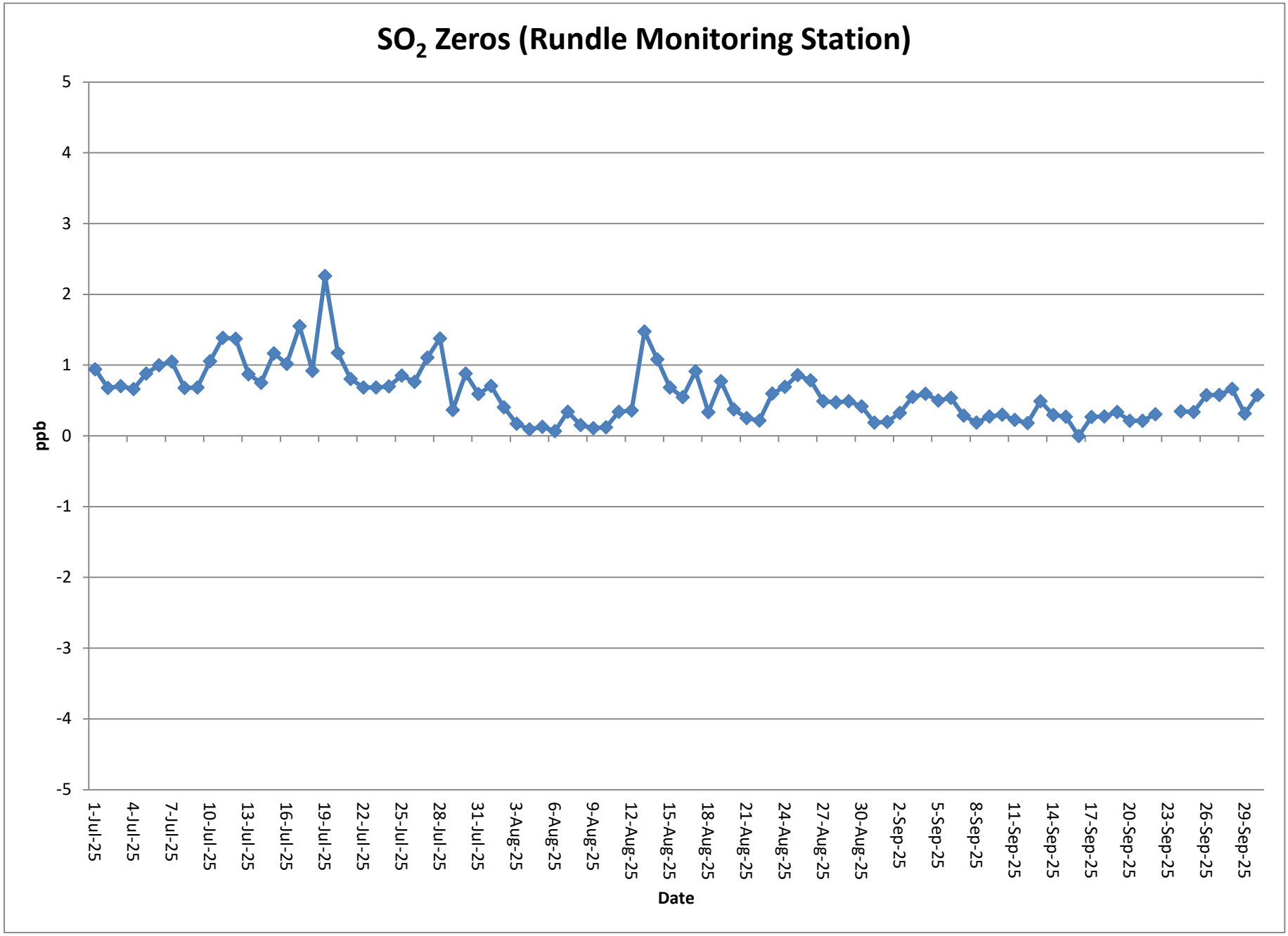
29-Sep-25
Date


SO2 Zeros (Rundle Monitoring Station)
ppb
5
4
3
2
1
0
-1
-2
-3
-4
-5
1-Jul-25
4-Jul-25
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13-Jul-25
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25-Jul-25
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31-Jul-25
3-Aug-25
6-Aug-25
9-Aug-25
12-Aug-25
15-Aug-25
18-Aug-25
21-Aug-25
24-Aug-25
27-Aug-25
30-Aug-25
2-Sep-25
5-Sep-25
8-Sep-25
11-Sep-25
14-Sep-25
17-Sep-25
20-Sep-25
23-Sep-25
26-Sep-25
29-Sep-25
Date

APPENDIX D

Table D1: Q3 Edit Log for $PM_{2.5}$ at Courtice Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45201				**Station Name:** Courtice Station					
Station Address: 100 Osbourne Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: $PM_{2.5}$		**Instrument Make & Model:** Thermo Scientific Model 5030 SHARP Monitor						**s/n:** E-1563	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025		All testing done in EST			
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	29/07/2025	SRS	Hours Deleted	29/07/2025	11:00	29/07/2025	13:00	2	Monthly calibration
2	22/08/2025	SRS	Hours Deleted	22/08/2025	11:00	22/08/2025	14:00	3	Monthly calibration
3	25/08/2025	SRS	Hours Deleted	25/08/2025	9:00	25/08/2025	10:00	1	Quarterly audit
4	10/09/2025	AXT	Zero Correction	01/08/2025	0:00	01/09/2025	0:00	-	Correcting Values <0 to 0
5	06/10/2025	AXT	Hours Deleted	16/09/2025	15:00	16/09/2025	16:00	1	Communication error
6	06/10/2025	AXT	Hours Deleted	18/09/2025	10:00	18/09/2025	11:00	1	Monthly calibration
7	06/10/2025	AXT	Zero Correction	01/09/2025	0:00	01/10/2025	0:00	-	Correcting Values <0 to 0

Table D2: Q3 Edit Log for $PM_{2.5}$ at Rundle Road Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45200				**Station Name:** Rundle Road Station					
Station Address: Rundle Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: $PM_{2.5}$		**Instrument Make & Model:** Thermo Scientific Model 5030 SHARP Monitor						**s/n:** E-1569	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025				All testing done in EST	
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	29/07/2025	SRS	Hours Deleted	29/07/2025	8:00	29/07/2025	10:00	2	Monthly calibration
2	22/08/2025	SRS	Hours Deleted	22/08/2025	8:00	22/08/2025	10:00	2	Monthly calibration
3	25/08/2025	SRS	Hours Deleted	25/08/2025	10:00	25/08/2025	12:00	2	Quarterly audit
4	25/08/2025	AXT	Hours Deleted	25/08/2025	16:00	25/08/2025	19:00	3	Power outage - no data
5	17/09/2025	SRS	Hours Deleted	17/09/2025	10:00	17/09/2025	12:00	2	Monthly calibration
6	06/10/2025	AXT	Zero Correction	01/09/2025	0:00	01/10/2025	0:00	-	Correcting Values <0 to 0
7	06/10/2025	AXT	Hours Deleted	22/09/2025	18:00	23/09/2025	17:00	23	Power outage - no data

Table D3: Q3 Edit Log for NO_X at Courtice Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45201				**Station Name:** Courtice Station					
Station Address: 100 Osbourne Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: NOx		**Instrument Make & Model:** Teledyne Nitrogen Oxide Analyzer Model T200						**s/n:** 675	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025				All testing done in EST	
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	29/07/2025	SRS	Hours Deleted	29/07/2025	12:00	29/07/2025	14:00	2	Monthly calibration
2	14/08/2025	AXT	Zero Offset Adjustment	01/07/2025	0:00	01/08/2025	0:00	-	Baseline corrected based off overnight zeros
3	14/08/2025	AXT	Zero Correction	01/07/2025	0:00	01/08/2025	0:00	-	Correcting Values <0 to 0
4	22/08/2025	SRS	Hours Deleted	22/08/2025	12:00	22/08/2025	14:00	2	Monthly calibration
5	25/08/2025	SRS	Hours Deleted	25/08/2025	9:00	25/08/2025	11:00	2	Quarterly audit
6	08/09/2025	AXT	Zero Offset Adjustment	01/08/2025	0:00	01/09/2025	0:00	-	Baseline corrected based off overnight zeros
7	08/09/2025	AXT	Zero Correction	01/08/2025	0:00	01/09/2025	0:00	-	Correcting Values <0 to 0
8	06/10/2025	AXT	Hours Deleted	16/09/2025	15:00	16/09/2025	16:00	1	Communication error
9	06/10/2025	AXT	Hours Deleted	18/09/2025	10:00	18/09/2025	13:00	3	Monthly calibration
10	06/10/2025	AXT	Zero Correction	01/09/2025	0:00	01/10/2025	0:00	-	Correcting Values <0 to 0

Table D4: Q3 Edit Log for NO_X at Rundle Road Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller		**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca				
Station Number: 45200				**Station Name:** Rundle Road Station					
Station Address: Rundle Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: NOx			**Instrument Make & Model:** Teledyne Nitrogen Oxide Analyzer Model T200					**s/n:** 676	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025			All testing done in EST		
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	28/07/2025	SRS	Hours Deleted	28/07/2025	13:00	28/07/2025	15:00	2	Monthly calibration
2	14/08/2025	AXT	Zero Offset Adjustment	01/07/2025	0:00	01/08/2025	0:00	-	Baseline corrected based off overnight zeros
3	14/08/2025	AXT	Zero Correction	01/07/2025	0:00	01/08/2025	0:00	-	Correcting Values <0 to 0
4	22/08/2025	SRS	Hours Deleted	22/08/2025	9:00	22/08/2025	11:00	2	Monthly calibration
5	25/08/2025	SRS	Hours Deleted	25/08/2025	10:00	25/08/2025	11:00	1	Quarterly audit
6	25/08/2025	AXT	Hours Deleted	25/08/2025	16:00	25/08/2025	19:00	3	Power outage - no data
7	08/09/2025	AXT	Zero Offset Adjustment	01/08/2025	0:00	01/09/2025	0:00	-	Baseline corrected based off overnight zeros
8	08/09/2025	AXT	Zero Correction	01/08/2025	0:00	01/09/2025	0:00	-	Correcting Values <0 to 0
9	17/09/2025	SRS	Hours Deleted	17/09/2025	12:00	17/09/2025	15:00	3	Monthly calibration
10	06/10/2025	AXT	Hours Deleted	22/09/2025	18:00	23/09/2025	17:00	23	Power outage - no data
11	06/10/2025	AXT	Hours Deleted	01/09/2025	0:00	01/10/2025	0:00	-	Correcting Values <0 to 0

Table D5: Q3 Edit Log for SO_2 at Courtice Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45201				**Station Name:** Courtice Station					
Station Address: 100 Osbourne Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: SO_2		**Instrument Make & Model:** Teledyne Sulfur Dioxide Analyzer Model T100						**s/n:** 565	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025				All testing done in EST	
Edit #	**Edit Date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	29/07/2025	SRS	Hours Deleted	29/07/2025	10:00	29/07/2025	13:00	3	Monthly calibration
2	14/08/2025	AXT	Zero Offset Adjustment	01/07/2025	0:00	29/07/2025	10:00	-	Zero Drift Adjustment Based on 'As Found' Calibration
3	14/08/2025	AXT	Zero Correction	01/07/2025	0:00	01/08/2025	0:00	-	Correcting Values <0 to 0
4	22/08/2025	SRS	Hours Deleted	22/08/2025	11:00	22/08/2025	13:00	2	Monthly calibration
5	25/08/2025	SRS	Hours Deleted	25/08/2025	9:00	25/08/2025	10:00	1	Quarterly audit
6	10/09/2025	AXT	Zero Correction	01/08/2025	0:00	01/09/2025	0:00	-	Correcting Values <0 to 0
7	06/10/2025	AXT	Hours Deleted	16/09/2025	15:00	16/09/2025	16:00	1	Communication error
8	06/10/2025	AXT	Hours Deleted	18/09/2025	9:00	18/09/2025	15:00	6	Monthly calibration

Table D6: Q3 Edit Log for SO_2 at Rundle Road Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller		**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca				
Station Number: 45200				**Station Name:** Rundle Road Station					
Station Address: Rundle Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: SO_2			**Instrument Make & Model:** Teledyne Sulfur Dioxide Analyzer Model T100					**s/n:** 566	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025			All testing done in EST		
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	28/07/2025	SRS	Hours Deleted	28/07/2025	12:00	28/07/2025	16:00	4	Maintenance and monthly calibration
2	14/08/2025	AXT	Zero Offset Adjustment	01/07/2025	0:00	28/07/2025	12:00	-	Zero Drift Adjustment Based on 'As Found' Calibration
3	14/08/2025	AXT	Zero Correction	01/07/2025	0:00	01/08/2025	0:00	-	Correcting Values <0 to 0
4	22/08/2025	SRS	Hours Deleted	22/08/2025	8:00	22/08/2025	10:00	2	Monthly calibration
5	25/08/2025	SRS	Hours Deleted	25/08/2025	10:00	25/08/2025	12:00	2	Quarterly audit
6	25/08/2025	AXT	Hours Deleted	25/08/2025	16:00	25/08/2025	19:00	3	Power outage - no data
7	10/09/2025	AXT	Zero Correction	01/08/2025	0:00	01/09/2025	0:00	-	Correcting Values <0 to 0
8	17/09/2028	SRS	Hours Deleted	17/09/2028	10:00	17/09/2025	13:00	3	Monthly calibration
9	06/10/2025	AXT	Hours Deleted	22/09/2025	18:00	23/09/2025	17:00	23	Power outage - no data
10	06/10/2025	AXT	Hours Deleted	01/09/2025	0:00	01/10/2025	0:00	-	Correcting Values <0 to 0

Table D7: Q3 Edit Log for Meteorological Parameters at Courtice Road Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45201				**Station Name:** Courtice Station					
Station Address: 100 Osbourne Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: WS, WD, Ambient T, P, RH			**Instrument Make & Model:** Miscellaneous Meterological Instrumentation					**s/n:** N/A	
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025			All testing done in EST		
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
-									

Table D8: Q3 Edit Log for Meteorological Parameters at Rundle Road Station

Emitter's Name: Durham York Energy Centre									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45200				**Station Name:** Rundle Station					
Station Address: Rundle Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: WS, WD, Ambient T, P, RH			**Instrument Make & Model:** Miscellaneous Meterological Instrumentation						**s/n:** N/A
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025				All testing done in EST	
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	25/08/2025	AXT	Hours Deleted	25/08/2025	16:00	25/08/2025	19:00	3	Power outage - no data
2	06/10/2025	AXT	Hours Deleted	22/09/2025	18:00	23/09/2025	17:00	23	Power outage - no data

Table D9: Q3 Edit Log for Discrete Sampling at Courtice Station

Emitter's Name: Durham York Energy Center									
Contact	**Name:** Ms. Lyndsay Waller	**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca					
Station Number: 45201				**Station Name:** Courtice Station					
Station Address: 100 Osbourne Road				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: N/A		**Instrument Make & Model:** N/A							**s/n:**
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025				All testing done in EST	
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	14/08/2025	AXT	Hours Deleted	12/07/2025	0:00	13/07/2025	0:00	24	PAH - Invalid - Sample volume outside criteria (+/- 10%)
2	14/08/2025	AXT	Hours Deleted	18/07/2025	0:00	19/07/2025	0:00	24	TSP - Invalid - equipment failure
3	14/08/2025	AXT	Hours Deleted	24/07/2025	0:00	25/07/2025	0:00	24	TSP - Invalid - equipment failure
4	14/08/2025	AXT	Hours Deleted	24/07/2025	0:00	25/07/2025	0:00	24	PAH and D&F - Invalid - Sample volume outside criteria (+/- 10%)
5	07/10/2025	AXT	Hours Deleted	22/09/2025	0:00	23/09/2025	0:00	24	PAH - Invalid - Sample volume outside criteria (+/- 10%)

Table D10: Q3 Edit Log for Discrete Sampling at Rundle Station

Emitter's Name: Durham York Energy Center									
Contact	**Name:** Ms. Lyndsay Waller		**Phone:** (905) 404-0888 ext 4107		**Email:** Lyndsay.Waller@Durham.ca				
Station Number: 45200				**Station Name:** Rundle Station					
Station Address: Rundle Rd				**Emitter Address:** The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: N/A			**Instrument Make & Model:** N/A						**s/n:**
Data Edit Period		**Start Date:** July 1, 2025		**End Date:** September 30, 2025				All testing done in EST	
Edit #	**Edit date (dd/mm/yyyy)**	**Editor's Name**	**Edit Action**	**Starting**		**Ending**		**Duration**	**Reason**
				Date (dd/mm/yyyy)	**Hour (xx:xx)**	**Date (dd/mm/yyyy)**	**Hour (xx:xx)**	**Deleted Hours**	
1	14/08/2025	AXT	Hours Deleted	12/07/2025	0:00	13/07/2025	0:00	24	PAH - Invalid - Sample volume outside criteria (+/- 10%)
2	15/09/2025	AXT	Hours Deleted	17/08/2025	0:00	18/08/2025	0:00	24	PAH and D&F - Invalid - Sample volume outside criteria (+/- 10%)
3	07/10/2025	AXT	Hours Deleted	22/09/2025	0:00	23/09/2025	0:00	24	TSP & PAH - Invalid - Sample volume outside criteria (+/- 10%)

APPENDIX E

SO2 Exceedance Report **Table E1**

Durham York Energy Centre
Courtice, Ontario
Courtice Station
Baseline Corrected Data

Date	Time	SO_2	SO_2
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
04/07/2025	21:10	2	2
04/07/2025	21:15	4	3
04/07/2025	21:20	33	18
04/07/2025	21:25	109	71
04/07/2025	21:30	103	106
04/07/2025	21:35	35	69
04/07/2025	21:40	22	28
04/07/2025	21:45	14	18
04/07/2025	21:50	10	12
04/07/2025	21:55	26	18
04/07/2025	22:00	87	57
04/07/2025	22:05	80	84
04/07/2025	22:10	56	68
04/07/2025	22:15	61	58
04/07/2025	22:20	67	64
Hidden cells with no values exceeding limit.			
05/07/2025	0:50	6	6
05/07/2025	0:55	4	5
05/07/2025	1:00	98	51
05/07/2025	1:05	107	103
05/07/2025	1:10	71	89
05/07/2025	1:15	32	52
05/07/2025	1:20	18	25
Hidden cells with no values exceeding limit.			
22/07/2025	21:15	18	10
22/07/2025	21:20	15	16
22/07/2025	21:25	73	44
22/07/2025	21:30	82	77
22/07/2025	21:35	45	64
22/07/2025	21:40	75	60
22/07/2025	21:45	26	51
22/07/2025	21:50	21	24
22/07/2025	21:55	145	83
22/07/2025	22:00	41	93
22/07/2025	22:05	22	32
22/07/2025	22:10	15	19

Date	Time	SO_2	SO_2
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
22/07/2025	22:25	44	42
22/07/2025	22:30	51	48
22/07/2025	22:35	77	64
22/07/2025	22:40	68	72
22/07/2025	22:45	65	66
22/07/2025	22:50	78	71
22/07/2025	22:55	72	75
22/07/2025	23:00	34	53
22/07/2025	23:05	29	32

Notes:

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
Max	- Maximum of the Range
Min	- Minimum of the Range

Total Number of Reportable Exceedances: **8**

Ambient Air Quality Criteria (AAQC) for SO2 = 67 ppb for 10-minute running average

SO2 Exceedance Report **Table E2**

Durham York Energy Centre
Courtice, Ontario
Courtice Station
Baseline Corrected Data

Date	Time	SO_2	SO_2
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
31/08/2025	5:45	43	34
31/08/2025	5:50	48	46
31/08/2025	5:55	59	53
31/08/2025	6:00	95	77
31/08/2025	6:05	115	105
31/08/2025	6:10	50	83
31/08/2025	6:15	60	55
31/08/2025	6:20	49	54
31/08/2025	6:25	52	51
Hidden cells with no values exceeding limit.			
31/08/2025	19:15	2	2
31/08/2025	19:20	49	25
31/08/2025	19:25	59	54
31/08/2025	19:30	118	88
31/08/2025	19:35	63	90
31/08/2025	19:40	78	70
31/08/2025	19:45	103	90
31/08/2025	19:50	53	78
31/08/2025	19:55	26	40
31/08/2025	20:00	15	21
31/08/2025	20:05	11	13

Notes:

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
Max	- Maximum of the Range
Min	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO2 = 67 ppb for 10-minute running average

Total Number of Reportable Exceedances: **5**

SO2 Exceedance Report **Table E3**

Durham York Energy Centre
Courtice, Ontario
Courtice Station
Baseline Corrected Data

Date	Time	SO_2	SO_2
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
01/09/2025	18:45	44	22
01/09/2025	18:50	76	60
01/09/2025	18:55	50	63
01/09/2025	19:00	115	82
01/09/2025	19:05	80	98
01/09/2025	19:10	82	81
01/09/2025	19:15	136	109
01/09/2025	19:20	26	81
01/09/2025	19:25	17	21
01/09/2025	19:30	10	13
01/09/2025	19:35	38	24
Hidden cells with no values exceeding limit.			
06/09/2025	21:10	6	14
06/09/2025	21:15	3	5
06/09/2025	21:20	106	55
06/09/2025	21:25	41	73
06/09/2025	21:30	14	27
06/09/2025	21:35	68	41
06/09/2025	21:40	78	73
06/09/2025	21:45	92	85
06/09/2025	21:50	114	103
06/09/2025	21:55	60	87
06/09/2025	22:00	19	40
06/09/2025	22:05	13	16
Hidden cells with no values exceeding limit.			
17/09/2025	6:50	12	9
17/09/2025	6:55	17	14
17/09/2025	7:00	56	37
17/09/2025	7:05	195	126
17/09/2025	7:10	292	243
17/09/2025	7:15	250	271
17/09/2025	7:20	86	168
17/09/2025	7:25	50	68
17/09/2025	7:30	31	41
17/09/2025	7:35	22	27
17/09/2025	7:40	19	21

Date	Time	SO_2	SO_2
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
Hidden cells with no values exceeding limit.			
19/09/2025	6:20	16	14
19/09/2025	6:25	27	21
19/09/2025	6:30	75	51
19/09/2025	6:35	60	67
19/09/2025	6:40	49	54
19/09/2025	6:45	38	44
19/09/2025	6:50	36	37
Hidden cells with no values exceeding limit.			
29/09/2025	19:15	25	38
29/09/2025	19:20	18	21
29/09/2025	19:25	52	35
29/09/2025	19:30	89	71
29/09/2025	19:35	30	59
29/09/2025	19:40	35	32
29/09/2025	19:45	23	29

Notes:

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
Max	- Maximum of the Range
Min	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO2 = 67 ppb for 10-minute running average

Total Number of Reportable Exceedances: **11**

SO2 Exceedance Report **Table E4**

Durham York Energy Centre
Courtice, Ontario
Courtice Station
Baseline Corrected Data

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
04/07/2025	21:00	2	6
04/07/2025	21:05	2	5
04/07/2025	21:10	2	5
04/07/2025	21:15	4	5
04/07/2025	21:20	33	7
04/07/2025	21:25	109	15
04/07/2025	21:30	103	23
04/07/2025	21:35	35	25
04/07/2025	21:40	22	27
04/07/2025	21:45	14	27
04/07/2025	21:50	10	28
04/07/2025	21:55	26	30
04/07/2025	22:00	87	37
04/07/2025	22:05	80	44
04/07/2025	22:10	56	48
04/07/2025	22:15	61	53
04/07/2025	22:20	67	56
04/07/2025	22:25	59	52
04/07/2025	22:30	26	45
04/07/2025	22:35	15	43
04/07/2025	22:40	11	43
04/07/2025	22:45	9	42
04/07/2025	22:50	6	42
04/07/2025	22:55	5	40
04/07/2025	23:00	4	33
04/07/2025	23:05	4	27
04/07/2025	23:10	3	23
Hidden cells with no values exceeding limit.			
05/07/2025	0:50	6	11
05/07/2025	0:55	4	11
05/07/2025	1:00	98	17
05/07/2025	1:05	107	24
05/07/2025	1:10	71	29
05/07/2025	1:15	32	31
05/07/2025	1:20	18	31
05/07/2025	1:25	11	32

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
05/07/2025	1:30	9	32
05/07/2025	1:35	16	32
05/07/2025	1:40	10	33
05/07/2025	1:45		35
05/07/2025	1:50		38
05/07/2025	1:55		42
05/07/2025	2:00		
05/07/2025	2:05		
05/07/2025	2:10		
05/07/2025	2:15	6	
05/07/2025	2:20	5	
05/07/2025	2:25	16	
05/07/2025	2:30	31	
05/07/2025	2:35	25	
05/07/2025	2:40	34	
05/07/2025	2:45	31	
05/07/2025	2:50	32	
05/07/2025	2:55	30	23
05/07/2025	3:00	53	26
Hidden cells with no values exceeding limit.			
22/07/2025	20:50	1	1
22/07/2025	20:55	2	1
22/07/2025	21:00	5	1
22/07/2025	21:05	3	2
22/07/2025	21:10	3	2
22/07/2025	21:15	18	3
22/07/2025	21:20	15	5
22/07/2025	21:25	73	11
22/07/2025	21:30	82	17
22/07/2025	21:35	45	21
22/07/2025	21:40	75	27
22/07/2025	21:45	26	29
22/07/2025	21:50	21	31
22/07/2025	21:55	145	43
22/07/2025	22:00	41	46
22/07/2025	22:05	22	47
22/07/2025	22:10	15	48
22/07/2025	22:15	21	48
22/07/2025	22:20	40	51
22/07/2025	22:25	44	48
22/07/2025	22:30	51	46
22/07/2025	22:35	77	48
22/07/2025	22:40	68	48
22/07/2025	22:45	65	51

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
22/07/2025	22:50	78	56
22/07/2025	22:55	72	49
22/07/2025	23:00	34	49
22/07/2025	23:05	29	49
22/07/2025	23:10	24	50
22/07/2025	23:15	26	51
22/07/2025	23:20	22	49
22/07/2025	23:25	15	47
22/07/2025	23:30	39	46
22/07/2025	23:35	41	43
22/07/2025	23:40	42	41
22/07/2025	23:45	70	41
22/07/2025	23:50	59	39
22/07/2025	23:55	60	38
23/07/2025	0:00	70	41
23/07/2025	0:05	45	43
23/07/2025	0:10	32	43
23/07/2025	0:15	30	44
23/07/2025	0:20	22	44
23/07/2025	0:25	18	44
23/07/2025	0:30	17	42
23/07/2025	0:35	17	40
23/07/2025	0:40	18	38
23/07/2025	0:45	17	34
23/07/2025	0:50	17	30
23/07/2025	0:55	15	27
23/07/2025	1:00	14	22
23/07/2025	1:05	16	20
Hidden cells with no values exceeding limit.			
23/07/2025	1:25	13	16
23/07/2025	1:30	16	16
23/07/2025	1:35	15	16
23/07/2025	1:40	13	15
23/07/2025	1:45		15
23/07/2025	1:50		15
23/07/2025	1:55		15
23/07/2025	2:00		
23/07/2025	2:05		
23/07/2025	2:10		
23/07/2025	2:15	31	
23/07/2025	2:20	55	
23/07/2025	2:25	69	
23/07/2025	2:30	60	
23/07/2025	2:35	43	

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
23/07/2025	2:40	56	
23/07/2025	2:45	30	
23/07/2025	2:50	22	
23/07/2025	2:55	19	43
23/07/2025	3:00	17	40
23/07/2025	3:05	15	38
23/07/2025	3:10	15	36
23/07/2025	3:15	16	35
23/07/2025	3:20	17	32
23/07/2025	3:25	12	27
23/07/2025	3:30	10	23
23/07/2025	3:35	11	20
23/07/2025	3:40	12	16
23/07/2025	3:45	11	15
23/07/2025	3:50	9	14
23/07/2025	3:55	8	13
Hidden cells with no values exceeding limit.			
28/07/2025	5:00	34	32
28/07/2025	5:05	28	32
28/07/2025	5:10	23	31
28/07/2025	5:15	18	30
28/07/2025	5:20	40	31
28/07/2025	5:25	77	35
28/07/2025	5:30	50	37
28/07/2025	5:35	40	38
28/07/2025	5:40	35	37
28/07/2025	5:45	25	35
28/07/2025	5:50	34	36
28/07/2025	5:55	49	38
28/07/2025	6:00	51	39
28/07/2025	6:05	51	41
28/07/2025	6:10	36	42
28/07/2025	6:15	32	43
28/07/2025	6:20	31	43
28/07/2025	6:25	25	38
28/07/2025	6:30	17	35
28/07/2025	6:35	17	34
28/07/2025	6:40	19	32
28/07/2025	6:45	16	31
28/07/2025	6:50	11	29
28/07/2025	6:55	12	26
28/07/2025	7:00	13	23
28/07/2025	7:05	11	20
28/07/2025	7:10	9	18

Notes:

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
Max	- Maximum of the Range
Min	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO2 = 40 ppb for 1-hour running average

Total Number of Reportable Exceedances: **7**

SO2 Exceedance Report **Table E5**

Durham York Energy Centre
Courtice, Ontario
Courtice Station
Baseline Corrected Data

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
31/08/2025	4:55	20	28
31/08/2025	5:00	29	26
31/08/2025	5:05	19	23
31/08/2025	5:10	14	21
31/08/2025	5:15	14	21
31/08/2025	5:20	30	22
31/08/2025	5:25	61	25
31/08/2025	5:30	40	28
31/08/2025	5:35	47	31
31/08/2025	5:40	24	31
31/08/2025	5:45	43	31
31/08/2025	5:50	48	33
31/08/2025	5:55	59	36
31/08/2025	6:00	95	41
31/08/2025	6:05	115	49
31/08/2025	6:10	50	52
31/08/2025	6:15	60	56
31/08/2025	6:20	49	58
31/08/2025	6:25	52	57
31/08/2025	6:30	39	57
31/08/2025	6:35	25	55
31/08/2025	6:40	25	55
31/08/2025	6:45	22	53
31/08/2025	6:50	18	51
31/08/2025	6:55	16	47
31/08/2025	7:00	13	40
31/08/2025	7:05	11	32
31/08/2025	7:10	11	28
31/08/2025	7:15	11	24
31/08/2025	7:20	10	21
31/08/2025	7:25	9	18
31/08/2025	7:30	9	15
31/08/2025	7:35	7	14
31/08/2025	7:40	7	12
31/08/2025	7:45	7	11
31/08/2025	7:50	7	10

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
31/08/2025	7:55	6	9
31/08/2025	8:00	6	8
31/08/2025	8:05	6	8
Hidden cells with no values exceeding limit.			
31/08/2025	18:40	2	1
31/08/2025	18:45	3	2
31/08/2025	18:50	4	2
31/08/2025	18:55	3	2
31/08/2025	19:00	2	2
31/08/2025	19:05	2	2
31/08/2025	19:10	2	2
31/08/2025	19:15	2	2
31/08/2025	19:20	49	6
31/08/2025	19:25	59	11
31/08/2025	19:30	118	20
31/08/2025	19:35	63	26
31/08/2025	19:40	78	32
31/08/2025	19:45	103	40
31/08/2025	19:50	53	44
31/08/2025	19:55	26	46
31/08/2025	20:00	15	47
31/08/2025	20:05	11	48
31/08/2025	20:10	11	49
31/08/2025	20:15	8	49
31/08/2025	20:20	9	46
31/08/2025	20:25	8	42
31/08/2025	20:30	6	32
31/08/2025	20:35	5	28
31/08/2025	20:40	9	22
31/08/2025	20:45	14	15
31/08/2025	20:50	7	11

Notes:

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
Max	- Maximum of the Range
Min	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO2 = 40 ppb for 1-hour running average

Total Number of Reportable Exceedances: **3**

SO2 Exceedance Report **Table E6**

Durham York Energy Centre
Courtice, Ontario
Courtice Station
Baseline Corrected Data

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
01/09/2025	18:10	1	1
01/09/2025	18:15	1	1
01/09/2025	18:20	1	1
01/09/2025	18:25	1	1
01/09/2025	18:30	2	1
01/09/2025	18:35	2	1
01/09/2025	18:40	1	1
01/09/2025	18:45	44	5
01/09/2025	18:50	76	11
01/09/2025	18:55	50	15
01/09/2025	19:00	115	25
01/09/2025	19:05	80	31
01/09/2025	19:10	82	38
01/09/2025	19:15	136	49
01/09/2025	19:20	26	51
01/09/2025	19:25	17	52
01/09/2025	19:30	10	53
01/09/2025	19:35	38	56
01/09/2025	19:40	34	59
01/09/2025	19:45	35	58
01/09/2025	19:50	38	55
01/09/2025	19:55	25	53
01/09/2025	20:00	13	44
01/09/2025	20:05	33	40
01/09/2025	20:10	54	38
01/09/2025	20:15	27	29
01/09/2025	20:20	30	29
Hidden cells with no values exceeding limit.			
02/09/2025	4:55	29	26
02/09/2025	5:00	24	26
02/09/2025	5:05	34	27
02/09/2025	5:10	35	28
02/09/2025	5:15	35	29
02/09/2025	5:20	38	29
02/09/2025	5:25	43	29
02/09/2025	5:30	46	31

Date	Time	SO_2 5-min Avg.	SO_2 1-hr Running Avg.
02/09/2025	5:35	49	34
02/09/2025	5:40	44	37
02/09/2025	5:45	35	38
02/09/2025	5:50	34	37
02/09/2025	5:55	44	38
02/09/2025	6:00	51	41
02/09/2025	6:05	48	42
02/09/2025	6:10	43	42
02/09/2025	6:15	28	42
02/09/2025	6:20	23	41
02/09/2025	6:25	31	40
02/09/2025	6:30	37	39
02/09/2025	6:35	43	38
02/09/2025	6:40	38	38
02/09/2025	6:45	34	38
02/09/2025	6:50	28	37
02/09/2025	6:55	29	36
02/09/2025	7:00	34	35
02/09/2025	7:05	35	34
Hidden cells with no values exceeding limit.			
06/09/2025	20:45	1	1
06/09/2025	20:50	1	1
06/09/2025	20:55	1	1
06/09/2025	21:00	1	1
06/09/2025	21:05	21	3
06/09/2025	21:10	6	3
06/09/2025	21:15	3	3
06/09/2025	21:20	106	12
06/09/2025	21:25	41	15
06/09/2025	21:30	14	16
06/09/2025	21:35	68	22
06/09/2025	21:40	78	28
06/09/2025	21:45	92	36
06/09/2025	21:50	114	45
06/09/2025	21:55	60	50
06/09/2025	22:00	19	52
06/09/2025	22:05	13	51
06/09/2025	22:10	10	52
06/09/2025	22:15	9	52
06/09/2025	22:20	8	44
06/09/2025	22:25	6	41
06/09/2025	22:30	6	40
06/09/2025	22:35	5	35
06/09/2025	22:40	5	29
06/09/2025	22:45	4	22

Date	Time	SO_2 5-min Avg.	SO_2 1-hr Running Avg.
06/09/2025	22:50	4	12
06/09/2025	22:55	4	8
Hidden cells with no values exceeding limit.			
17/09/2025	6:05	4	5
17/09/2025	6:10	6	5
17/09/2025	6:15	7	5
17/09/2025	6:20	6	5
17/09/2025	6:25	7	5
17/09/2025	6:30	7	5
17/09/2025	6:35	6	5
17/09/2025	6:40	6	5
17/09/2025	6:45	7	6
17/09/2025	6:50	12	6
17/09/2025	6:55	17	7
17/09/2025	7:00	56	12
17/09/2025	7:05	195	27
17/09/2025	7:10	292	51
17/09/2025	7:15	250	72
17/09/2025	7:20	86	78
17/09/2025	7:25	50	82
17/09/2025	7:30	31	84
17/09/2025	7:35	22	85
17/09/2025	7:40	19	87
17/09/2025	7:45	17	87
17/09/2025	7:50	15	88
17/09/2025	7:55	12	87
17/09/2025	8:00	12	84
17/09/2025	8:05	12	68
17/09/2025	8:10	11	45
17/09/2025	8:15	8	25
17/09/2025	8:20	8	18
17/09/2025	8:25	9	15
17/09/2025	8:30	9	13
17/09/2025	8:35	7	12
17/09/2025	8:40	6	11
17/09/2025	8:45	8	10
17/09/2025	8:50	8	9
17/09/2025	8:55	6	9
17/09/2025	9:00	6	8
17/09/2025	9:05	7	8
17/09/2025	9:10	6	7
17/09/2025	9:15	4	7
Hidden cells with no values exceeding limit.			
19/09/2025	20:15	6	22
19/09/2025	20:20	7	20

Date	Time	SO_2 5-min Avg.	SO_2 1-hr Running Avg.
19/09/2025	20:25	40	18
19/09/2025	20:30	25	17
19/09/2025	20:35	22	16
19/09/2025	20:40	15	15
19/09/2025	20:45	16	15
19/09/2025	20:50	16	15
19/09/2025	20:55	63	19
19/09/2025	21:00	70	24
19/09/2025	21:05	61	29
19/09/2025	21:10	63	33
19/09/2025	21:15	57	38
19/09/2025	21:20	52	41
19/09/2025	21:25	49	42
19/09/2025	21:30	41	44
19/09/2025	21:35	40	45
19/09/2025	21:40	44	48
19/09/2025	21:45	38	49
19/09/2025	21:50	30	51
19/09/2025	21:55	29	48
19/09/2025	22:00	27	44
19/09/2025	22:05	23	41
19/09/2025	22:10	19	38
19/09/2025	22:15	16	34
19/09/2025	22:20	13	31
19/09/2025	22:25	11	28
Hidden cells with no values exceeding limit.			
30/09/2025	3:55	22	21
30/09/2025	4:00	18	21
30/09/2025	4:05	16	22
30/09/2025	4:10	10	21
30/09/2025	4:15	45	24
30/09/2025	4:20	32	26
30/09/2025	4:25	19	27
30/09/2025	4:30	39	29
30/09/2025	4:35	42	29
30/09/2025	4:40	73	32
30/09/2025	4:45	53	34
30/09/2025	4:50	44	34
30/09/2025	4:55	62	38
30/09/2025	5:00	56	41
30/09/2025	5:05	60	45
30/09/2025	5:10	35	47
30/09/2025	5:15	43	47
30/09/2025	5:20	39	47
30/09/2025	5:25	35	48

Date	Time	SO_2	SO_2
		5-min Avg.	1-hr Running Avg.
30/09/2025	5:30	22	47
30/09/2025	5:35	15	45
30/09/2025	5:40	12	40
30/09/2025	5:45	10	36
30/09/2025	5:50	11	33
30/09/2025	5:55	16	29
30/09/2025	6:00	13	26
30/09/2025	6:05	13	22

Notes:

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
Max	- Maximum of the Range
Min	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO2 = 40 ppb for 1-hour running average

Total Number of Reportable Exceedances: **7**

APPENDIX F

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October 24, 2025

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Durham York Energy Centre
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Corporate Services-Legislative Services Division
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Re: Durham York Energy Centre (DYEC)
2025 Ambient Air Q3 Sulphur Dioxide Emissions
RWDI Reference No. 2600650

In support of the 2025, Q3 Ambient Air Quality Monitoring Report prepared by RWDI Inc., the following information is provided in relation to the performance of the DYEC during the periods of elevated sulphur dioxide (SO_2) concentrations observed at the facility's Courtice and Rundle ambient air monitoring stations.

The Emission Summary and Dispersion Modelling (ESDM) report submitted as part of the DYEC ECA Application modelled SO_2 concentrations at the maximum point of impingement (POI) for a facility operating at 110% maximum continuous rating (MCR) with in-stack SO_2 concentrations at the permit limit of 35 mg/m^3. Under this conservative assumed facility operating condition, the predicted maximum 1-hour average concentration at the POI was 8.62 µg/m^3, which represents 8.62% of the new ambient air standard of 100 µg/m^3, which was implemented in 2020.

During Q3, there were twenty-four (24) exceedance events above the rolling 10-minute SO2 Ambient Air Quality Criteria (AAQC) and seventeen (17) exceedance events above the rolling 1-hour SO2 AAQC recorded at the Courtice station. There were no exceedance events above the rolling 10-minute SO2 Ambient Air Quality Criteria (AAQC) or rolling 1-hour SO2 AAQC recorded at the Rundle Road station.

Each of the date and times of the SO2 AAQC exceedances were compared against the wind direction recorded at the ambient air stations as well as the SO2 concentrations measured at the DYEC by the continuous emissions monitoring system (CEMS).

As indicated by RWDI in the 2025 DYEC Ambient Air Q3 Report, the Courtice Station pollution rose in **Figure 6** shows the majority of elevated SO2 events at Courtice occurred from the north to north-northeast directions. The events were likely a result of emissions from surrounding industrial sources. Minor additional contributions were present from the north-northwest and northeast. When winds from the northeast place the Courtice monitoring station downwind of the facility, the data suggests the DYEC likely contributed to the measured concentrations during the northeast wind period. The Courtice station pollution rose in **Figure 7** shows that <0.18% of the 5-min SO_2 events are elevated >67 ppb and the majority occurred from the north direction. The pollution rose indicates that emissions were likely from surrounding industrial sources.

The Rundle Road Station pollution rose in **Figure 6** shows no elevated SO_2 events at Rundle Road, The Rundle Road station pollution rose in **Figure 7** shows that there were no 5-min SO_2 events elevated >67 ppb.

During the times the SO_2 AAQC events occurred, both boilers CEMS concentrations, comprised of 24-hour rolling arithmetic average, were recorded between 0-8 mg/Rm3. The DYEC's CEMS concentrations for both boilers were below the DYEC regulatory compliance limit of 35 mg/Rm3 and the facility was operating under normal conditions.

CANADA'S BEST MANAGED COMPANIES Platinum member

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APPENDIX G

Table B4: Summary of Sample Flow Rate and Sample Duration for PAHs

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m3)	No.	(min)	(m3)
April 7, 2025	3242132_4	1440	294	3242132_3	1440	323
April 19, 2025	324110_3	1440	291	3242110_4	1440	298
May 1, 2025	3252390_3	1440	292	3252390_4	1440	301
May 13, 2025	BU2501351-001	1440	288	BU2501351-002	1440	286
May 25, 2025	3252420_4	1440	302	3252420_3	1440	266
June 6, 2025	BU2501592-001	1440	279	BU2501592-002	1440	280
June 18, 2025	BU2501721-002	1440	259	Invalid		
June 30, 2025	Invalid			BU2501822-001	1440	263

Table B5: 2025 Courtice Station Q2 Monitoring Results for PAHs

Contaminant	Units	*MECP Criteria*	7-Apr-25	19-Apr-25	1-May-25	13-May-25	25-May-25	6-Jun-25	18-Jun-25	30-Jun-25	No. > Criteria	Arithmetic Mean	Minimum Q2 Concentration	Maximum Q2 Concentration	April Maximum Concentration	May Maximum Concentration	June Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m3	-	1.99E+00	2.45E+00	3.26E+00	1.03E+01	1.91E+00	9.84E+00	6.61E+00		-	5.20E+00	1.91E+00	1.03E+01	2.45E+00	1.03E+01	9.84E+00	7	88%
2-Methylnaphthalene	ng/m3	-	3.01E+00	3.99E+00	5.92E+00	1.85E+01	3.19E+00	1.81E+01	1.27E+01		-	9.35E+00	3.01E+00	1.85E+01	3.99E+00	1.85E+01	1.81E+01	7	88%
Acenaphthene	ng/m3	-	6.59E-01	2.89E-01	2.43E+00	7.71E+00	1.32E+00	8.16E+00	8.82E+00		-	4.20E+00	2.89E-01	8.82E+00	6.59E-01	7.71E+00	8.82E+00	7	88%
Acenaphthylene	ng/m3	-	1.79E-01	1.27E-01	1.35E-01	3.12E-01	3.60E-01	1.59E+00	2.40E-01		-	4.20E-01	1.27E-01	1.59E+00	1.79E-01	3.60E-01	1.59E+00	7	88%
Anthracene	ng/m3	-	4.32E-02	2.32E-02	9.58E-02	2.84E-01	1.21E-01	3.27E-01	1.29E-01		-	1.46E-01	2.32E-02	3.27E-01	4.32E-02	2.84E-01	3.27E-01	7	88%
Benzo(a)Anthracene	ng/m3	-	1.24E-02	1.82E-02	1.09E-02	2.84E-02	2.50E-02	4.19E-02	1.12E-02		-	2.11E-02	1.09E-02	4.19E-02	1.82E-02	2.84E-02	4.19E-02	7	88%
Benzo(a)fluorene	ng/m3	-	3.48E-02	2.60E-02	1.18E-02	2.10E-02	2.62E-02	5.12E-02	1.27E-02		-	2.62E-02	1.18E-02	5.12E-02	3.48E-02	2.62E-02	5.12E-02	7	88%
Benzo(a)Pyrene (Historically High)	ng/m3	*0.05[1]*	1.66E-02	1.98E-02	1.45E-02	3.68E-02	2.81E-02	3.69E-02	1.76E-02		0	2.43E-02	1.45E-02	3.69E-02	1.98E-02	3.68E-02	3.69E-02	7	88%
Benzo(b)Fluoranthene	ng/m3	-	2.79E-02	4.89E-02	1.58E-02	2.60E-02	5.42E-02	1.23E-01	2.37E-02		-	4.57E-02	1.58E-02	1.23E-01	4.89E-02	5.42E-02	1.23E-01	7	88%
Benzo(b)fluorene	ng/m3	-	4.53E-03	7.10E-03	4.48E-03	9.17E-03	1.38E-02	2.60E-02	3.87E-03		-	9.86E-03	3.87E-03	2.60E-02	7.10E-03	1.38E-02	2.60E-02	7	88%
Benzo(e)Pyrene	ng/m3	-	2.39E-02	3.64E-02	1.81E-02	3.82E-02	4.03E-02	1.05E-01	1.62E-02		-	3.98E-02	1.62E-02	1.05E-01	3.64E-02	4.03E-02	1.05E-01	7	88%
Benzo(g,h,i)Perylene	ng/m3	-	3.55E-02	3.99E-02	2.10E-02	4.44E-02	4.10E-02	9.48E-02	2.39E-02	Invalid	-	4.29E-02	2.10E-02	9.48E-02	3.99E-02	4.44E-02	9.48E-02	7	88%
Benzo(k)Fluoranthene	ng/m3	-	3.73E-02	4.68E-02	1.67E-02	1.62E-02	3.34E-02	9.09E-02	9.63E-03		-	3.58E-02	9.63E-03	9.09E-02	4.68E-02	3.34E-02	9.09E-02	7	88%
Biphenyl	ng/m3	-	1.60E+00	2.19E+00	2.24E+00	5.28E+00	1.30E+00	1.35E+01	3.49E+00		-	4.23E+00	1.30E+00	1.35E+01	2.19E+00	5.28E+00	1.35E+01	7	88%
Chrysene	ng/m3	-	5.51E-02	8.49E-02	4.17E-02	7.99E-02	9.46E-02	1.69E-01	3.39E-02		-	7.99E-02	3.39E-02	1.69E-01	8.49E-02	9.46E-02	1.69E-01	7	88%
Dibenzo(a,h)Anthracene	ng/m3	-	3.48E-03	9.70E-03	5.27E-03	1.28E-02	7.57E-03	1.49E-02	3.87E-03		-	8.23E-03	3.48E-03	1.49E-02	9.70E-03	1.28E-02	1.49E-02	7	88%
Fluoranthene	ng/m3	-	3.44E-01	4.26E-01	6.57E-01	1.44E+00	5.95E-01	1.32E+00	1.21E+00		-	8.57E-01	3.44E-01	1.44E+00	4.26E-01	1.44E+00	1.32E+00	7	88%
Fluorene	ng/m3	-	7.42E-01	7.59E-01	1.84E+00	5.31E+00	1.40E+00	5.80E+00	4.72E+00		-	2.94E+00	7.42E-01	5.80E+00	7.59E-01	5.31E+00	5.80E+00	7	88%
Indeno(1,2,3-cd)Pyrene	ng/m3	-	2.89E-02	3.88E-02	1.35E-02	2.33E-02	4.03E-02	9.70E-02	1.71E-02		-	3.70E-02	1.35E-02	9.70E-02	3.88E-02	4.03E-02	9.70E-02	7	88%
Naphthalene	ng/m3	*22500*	1.32E+01	1.45E+01	1.08E+01	1.75E+01	7.24E+00	3.50E+01	2.60E+01		0	1.77E+01	7.24E+00	3.50E+01	1.45E+01	1.75E+01	3.50E+01	7	88%
o-Terphenyl	ng/m3	-	6.27E-03	9.18E-03	6.02E-03	1.00E-02	6.75E-03	4.33E-02	1.33E-02		-	1.35E-02	6.02E-03	4.33E-02	9.18E-03	1.00E-02	4.33E-02	7	88%
Perylene	ng/m3	-	1.74E-03	6.76E-03	1.71E-03	6.04E-03	5.19E-03	8.73E-03	3.87E-03		-	4.86E-03	1.71E-03	8.73E-03	6.76E-03	6.04E-03	8.73E-03	7	88%
Phenanthrene	ng/m3	-	1.34E+00	1.26E+00	2.67E+00	8.02E+00	2.25E+00	7.73E+00	5.99E+00		-	4.18E+00	1.26E+00	8.02E+00	1.34E+00	8.02E+00	7.73E+00	7	88%
Pyrene	ng/m3	-	2.24E-01	1.88E-01	2.41E-01	5.87E-01	3.02E-01	6.23E-01	3.94E-01		-	3.65E-01	1.88E-01	6.23E-01	2.24E-01	5.87E-01	6.23E-01	7	88%
Tetralin	ng/m3	-	6.72E-01	1.49E+00	1.68E+00	3.18E+00	5.49E-01	3.34E+00	1.29E+00		-	1.74E+00	5.49E-01	3.34E+00	1.49E+00	3.18E+00	3.34E+00	7	88%
Total PAH	ng/m3	-	2.43E+01	2.81E+01	3.21E+01	7.88E+01	2.10E+01	1.06E+02	7.18E+01		-	5.18E+01	2.10E+01	1.06E+02	2.81E+01	7.88E+01	1.06E+02	7	88%

NOTE: All non-detectable results were reported as 1/2 of the detection limit

[1] O. Reg. 419/05 Schedule 6, Upper Risk Thresholds

N/A - Results are not available at the time of this report

Table B6: 2025 Rundle Road Station Q2 Monitoring Results for PAHs

Contaminant	Units	*MECP Criteria*	7-Apr-25	19-Apr-25	1-May-25	13-May-25	25-May-25	6-Jun-25	18-Jun-25	30-Jun-25	No. > Criteria	Arithmetic Mean	Minimum Q2 Concentration	Maximum Q2 Concentration	April Maximum Concentration	May Maximum Concentration	March Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m3	-	1.66E+00	3.36E+00	3.72E+00	8.07E+00	2.00E+00	8.60E+00	Invalid	9.09E+00	-	5.21E+00	1.66E+00	9.09E+00	3.36E+00	8.07E+00	9.09E+00	7	88%
2-Methylnaphthalene	ng/m3	-	2.49E+00	5.64E+00	6.81E+00	1.51E+01	3.35E+00	1.63E+01		1.79E+01	-	9.65E+00	2.49E+00	1.79E+01	5.64E+00	1.51E+01	1.79E+01	7	88%
Acenaphthene	ng/m3	-	5.02E-01	6.53E-01	3.08E+00	7.68E+00	1.55E+00	1.02E+01		1.38E+01	-	5.36E+00	5.02E-01	1.38E+01	6.53E-01	7.68E+00	1.38E+01	7	88%
Acenaphthylene	ng/m3	-	1.99E-01	2.60E-01	1.52E-01	2.55E-01	1.48E-01	5.00E-01		4.41E-01	-	2.79E-01	1.48E-01	5.00E-01	2.60E-01	2.55E-01	5.00E-01	7	88%
Anthracene	ng/m3	-	4.25E-02	7.42E-02	1.34E-01	3.81E-01	1.01E-01	6.17E-01		1.22E+00	-	3.67E-01	4.25E-02	1.22E+00	7.42E-02	3.81E-01	1.22E+00	7	88%
Benzo(a)Anthracene	ng/m3	-	1.08E-02	1.89E-02	4.92E-03	1.20E-02	8.84E-03	1.12E-02		1.80E-02	-	1.21E-02	4.92E-03	1.89E-02	1.89E-02	1.20E-02	1.80E-02	7	88%
Benzo(a)fluorene	ng/m3	-	2.43E-02	4.76E-02	9.54E-03	2.03E-02	1.47E-02	3.25E-02		3.45E-02	-	2.62E-02	9.54E-03	4.76E-02	4.76E-02	2.03E-02	3.45E-02	7	88%
Benzo(a)Pyrene (Historically High)	ng/m3	*0.05[1]*	1.32E-02	1.68E-02	5.15E-03	1.31E-02	1.44E-02	1.36E-02		3.80E-03	0	1.14E-02	3.80E-03	1.68E-02	1.68E-02	1.44E-02	1.36E-02	7	88%
Benzo(b)Fluoranthene	ng/m3	-	2.14E-02	5.99E-02	1.42E-02	2.27E-02	2.63E-02	3.85E-02		2.80E-02	-	3.01E-02	1.42E-02	5.99E-02	5.99E-02	2.63E-02	3.85E-02	7	88%
Benzo(b)fluorene	ng/m3	-	4.44E-03	9.99E-03	1.66E-03	7.82E-03	6.66E-03	1.36E-02		1.51E-02	-	8.48E-03	1.66E-03	1.51E-02	9.99E-03	7.82E-03	1.51E-02	7	88%
Benzo(e)Pyrene	ng/m3	-	1.68E-02	4.18E-02	1.14E-02	1.89E-02	1.88E-03	3.44E-02		1.68E-02	-	2.03E-02	1.88E-03	4.18E-02	4.18E-02	1.89E-02	3.44E-02	7	88%
Benzo(g,h,i)Perylene	ng/m3	-	2.92E-02	4.60E-02	1.28E-02	2.02E-02	2.41E-02	4.32E-02		1.80E-02	-	2.76E-02	1.28E-02	4.60E-02	4.60E-02	2.41E-02	4.32E-02	7	88%
Benzo(k)Fluoranthene	ng/m3	-	4.60E-02	4.88E-02	1.51E-02	1.26E-02	1.44E-02	2.70E-02		8.60E-03	-	2.46E-02	8.60E-03	4.88E-02	4.88E-02	1.51E-02	2.70E-02	7	88%
Biphenyl	ng/m3	-	1.56E+00	2.73E+00	1.92E+00	4.05E+00	1.18E+00	1.31E+01		5.10E+00	-	4.24E+00	1.18E+00	1.31E+01	2.73E+00	4.05E+00	1.31E+01	7	88%
Chrysene	ng/m3	-	5.87E-02	9.95E-02	3.56E-02	7.47E-02	5.19E-02	9.46E-02		7.99E-02	-	7.07E-02	3.56E-02	9.95E-02	9.95E-02	7.47E-02	9.46E-02	7	88%
Dibenzo(a,h)Anthracene	ng/m3	-	3.17E-03	1.03E-02	1.66E-03	4.71E-03	5.19E-03	6.99E-03		3.80E-03	-	5.12E-03	1.66E-03	1.03E-02	1.03E-02	5.19E-03	6.99E-03	7	88%
Fluoranthene	ng/m3	-	3.30E-01	5.74E-01	9.10E-01	1.92E+00	6.81E-01	2.46E+00		5.67E+00	-	1.79E+00	3.30E-01	5.67E+00	5.74E-01	1.92E+00	5.67E+00	7	88%
Fluorene	ng/m3	-	7.02E-01	9.73E-01	2.49E+00	5.76E+00	1.43E+00	7.85E+00		1.22E+01	-	4.49E+00	7.02E-01	1.22E+01	9.73E-01	5.76E+00	1.22E+01	7	88%
Indeno(1,2,3-cd)Pyrene	ng/m3	-	1.78E-02	4.41E-02	1.15E-02	1.49E-02	2.21E-02	3.82E-02		1.34E-02	-	2.31E-02	1.15E-02	4.41E-02	4.41E-02	2.21E-02	3.82E-02	7	88%
Naphthalene	ng/m3	*22500*	1.20E+01	2.23E+01	1.39E+01	1.94E+01	7.26E+00	2.79E+01		2.55E+01	0	1.83E+01	7.26E+00	2.79E+01	2.23E+01	1.94E+01	2.79E+01	7	88%
o-Terphenyl	ng/m3	-	6.51E-03	9.99E-03	4.69E-03	8.10E-03	4.93E-03	3.89E-02		2.08E-02	-	1.34E-02	4.69E-03	3.89E-02	9.99E-03	8.10E-03	3.89E-02	7	88%
Perylene	ng/m3	-	1.59E-03	5.86E-03	1.66E-03	1.75E-03	1.88E-03	1.78E-03		3.80E-03	-	2.62E-03	1.59E-03	5.86E-03	5.86E-03	1.88E-03	3.80E-03	7	88%
Phenanthrene	ng/m3	-	1.33E+00	1.80E+00	4.78E+00	9.25E+00	2.35E+00	1.18E+01		1.98E+01	-	7.31E+00	1.33E+00	1.98E+01	1.80E+00	9.25E+00	1.98E+01	7	88%
Pyrene	ng/m3	-	1.92E-01	2.85E-01	3.01E-01	6.81E-01	2.90E-01	1.01E+00		1.95E+00	-	6.73E-01	1.92E-01	1.95E+00	2.85E-01	6.81E-01	1.95E+00	7	88%
Tetralin	ng/m3	-	4.86E-01	1.63E+00	1.72E+00	2.57E+00	5.79E-01	2.10E+00		1.49E-01	-	1.32E+00	1.49E-01	2.57E+00	1.63E+00	2.57E+00	2.10E+00	7	88%
Total PAH	ng/m3	-	2.18E+01	4.08E+01	4.00E+01	7.53E+01	2.11E+01	1.03E+02		1.13E+02	-	5.93E+01	2.11E+01	1.13E+02	4.08E+01	7.53E+01	1.13E+02	7	88%

NOTE: All non-detectable results were reported as 1/2 of the detection limit

[1] O. Reg. 419/05 Schedule 6, Upper Risk Thresholds

N/A - Results are not available at the time of this report