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Document: 2024 Fourth Quarter Air Monitoring Results from the Elk Valley

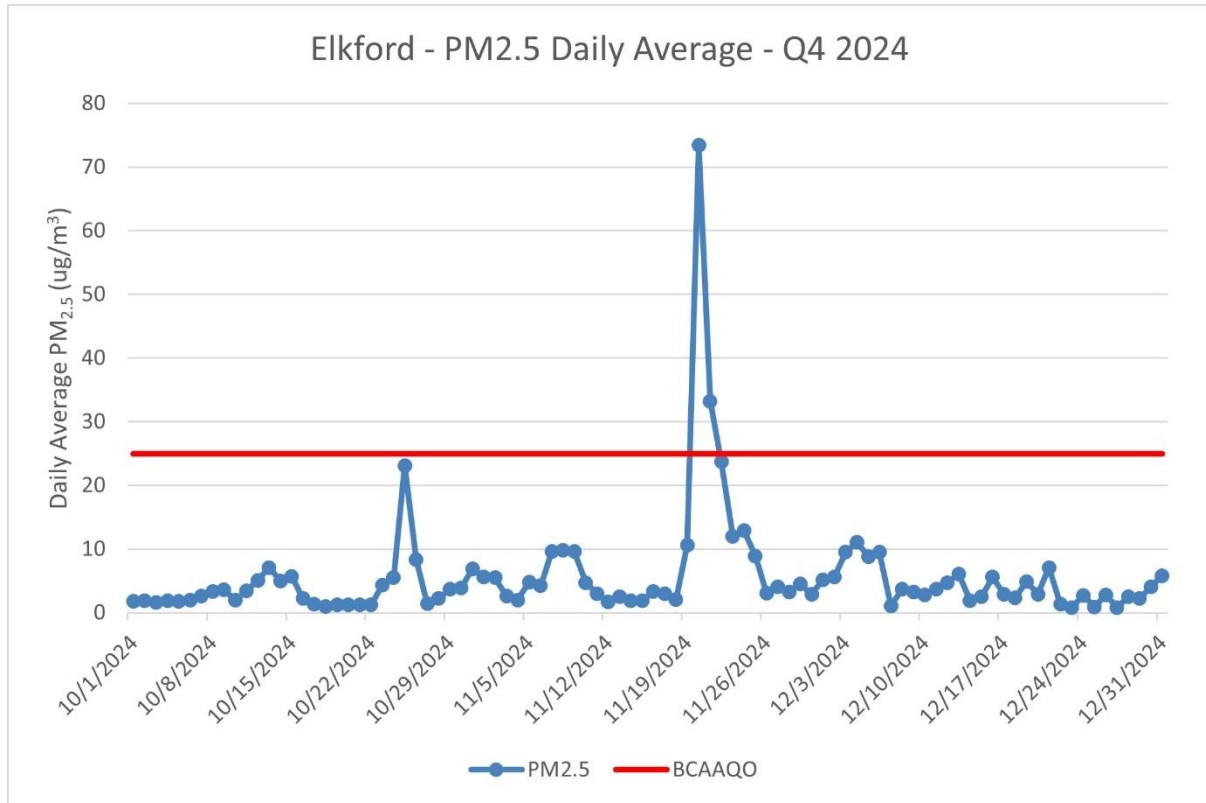
Overview: This document provides the 2024 fourth quarter (Q4) air monitoring results from air quality monitors in the Elk Valley for total suspended particulate (TSP), particulate matter 10 microns or smaller in diameter (PM10), and particulate matter 2.5 microns or smaller in diameter (PM2.5) compared to the British Columbia Ambient Air Quality Objectives (BCAAQO).

For More Information:

If you have questions regarding this report, please:

- Phone: 1-236-484-2200
- Email: info@evr.com

Elkford PM_{2.5}



The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 2.5 microns or smaller in diameter (PM_{2.5}) may be associated with combustion particles, such as wildfire smoke.

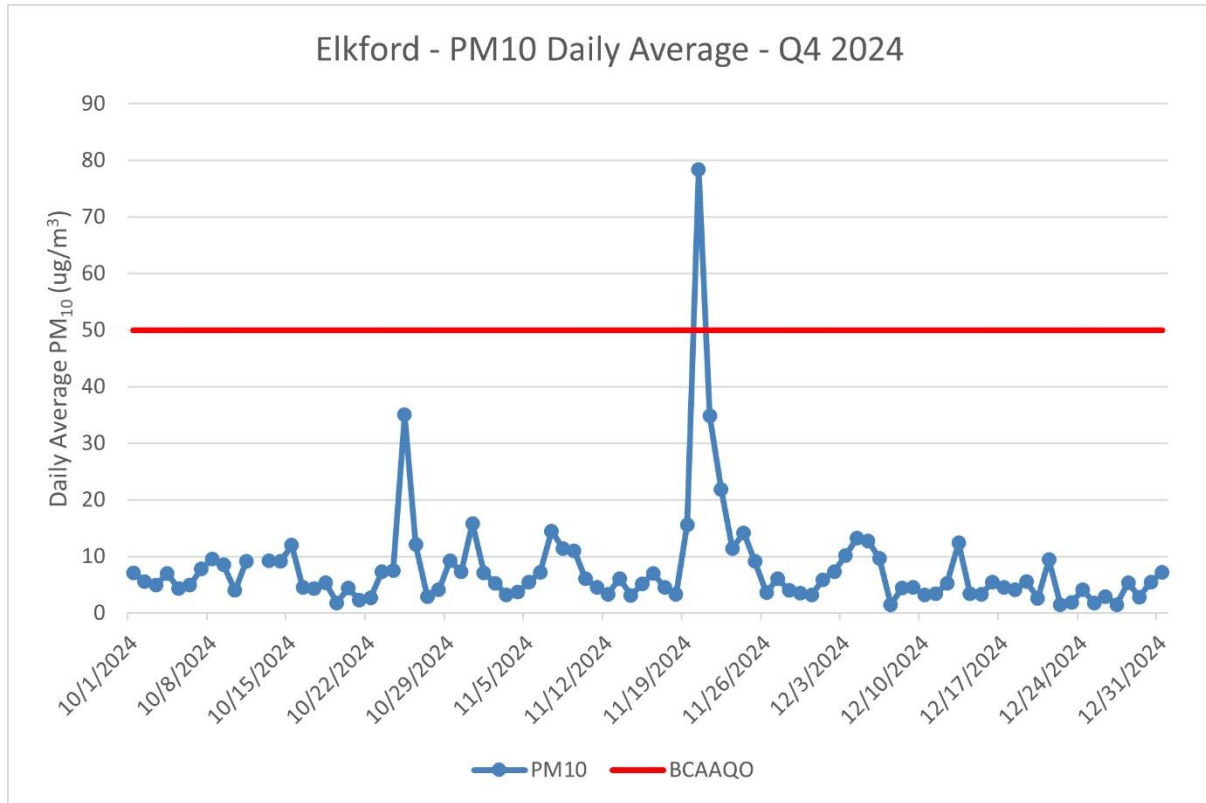
Two percent of days monitored in Q4 had a daily average above the PM_{2.5} daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the presence of smoke from slash pile burning near Elkford. This is supported by the Air Quality Advisory and Open Burning Restrictions notice issued for Elkford by the Ministry of Environment and Climate Change (ENV) on November 21st. Dust generated during mining activity may have also contributed to the elevated particulate matter levels as cold, dry winter conditions make some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with the site-specific Fugitive Dust Management Plans.

Data completeness requirements were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.



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Elkford PM₁₀

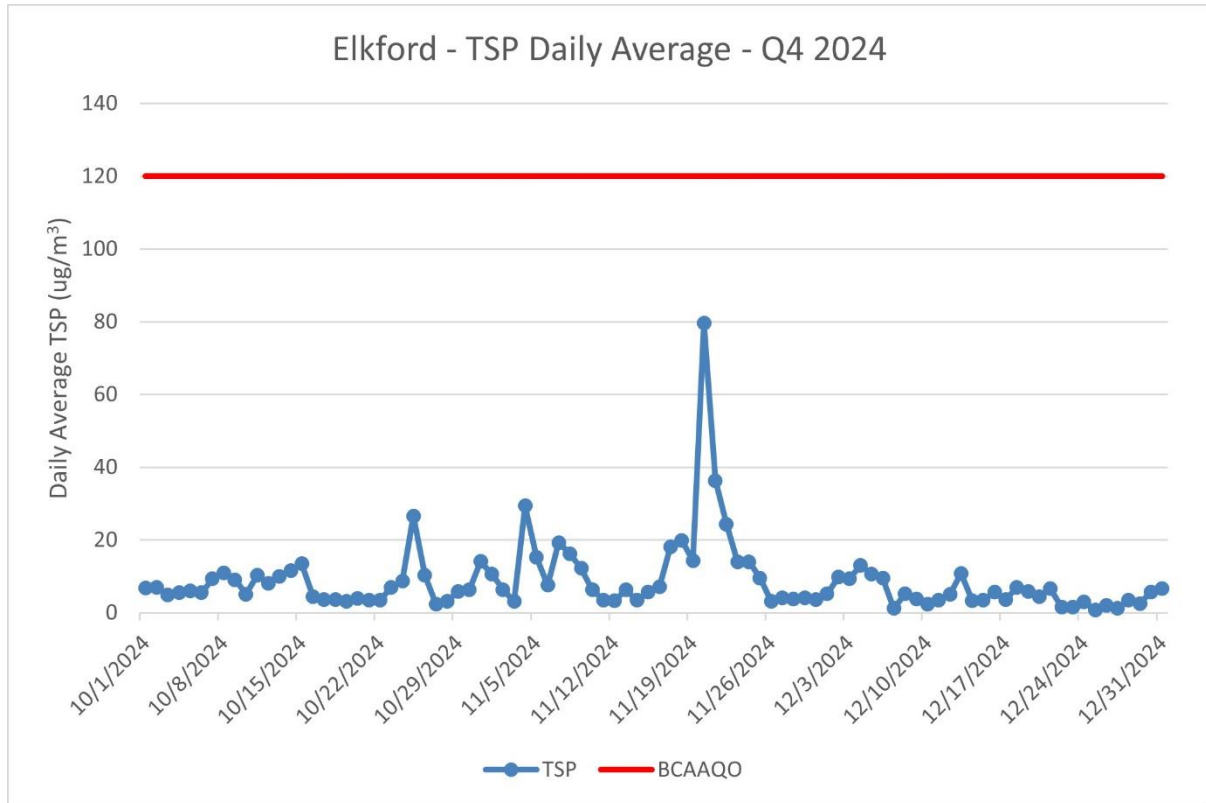


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM₁₀) may be associated with dust from mining activities, local roads and highways, construction activities, and wood burning stoves but can also be impacted by wildfire smoke.

One percent of days monitored in Q4 had a daily average above the PM₁₀ daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the presence of smoke from slash pile burning near Elkford. This is supported by the Air Quality Advisory and Open Burning Restrictions notice issued for Elkford by the Ministry of Environment and Climate Change (ENV) on November 21st. Dust generated during mining activity may have also contributed to the elevated particulate matter levels as cold, dry winter conditions make some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

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Elkford TSP

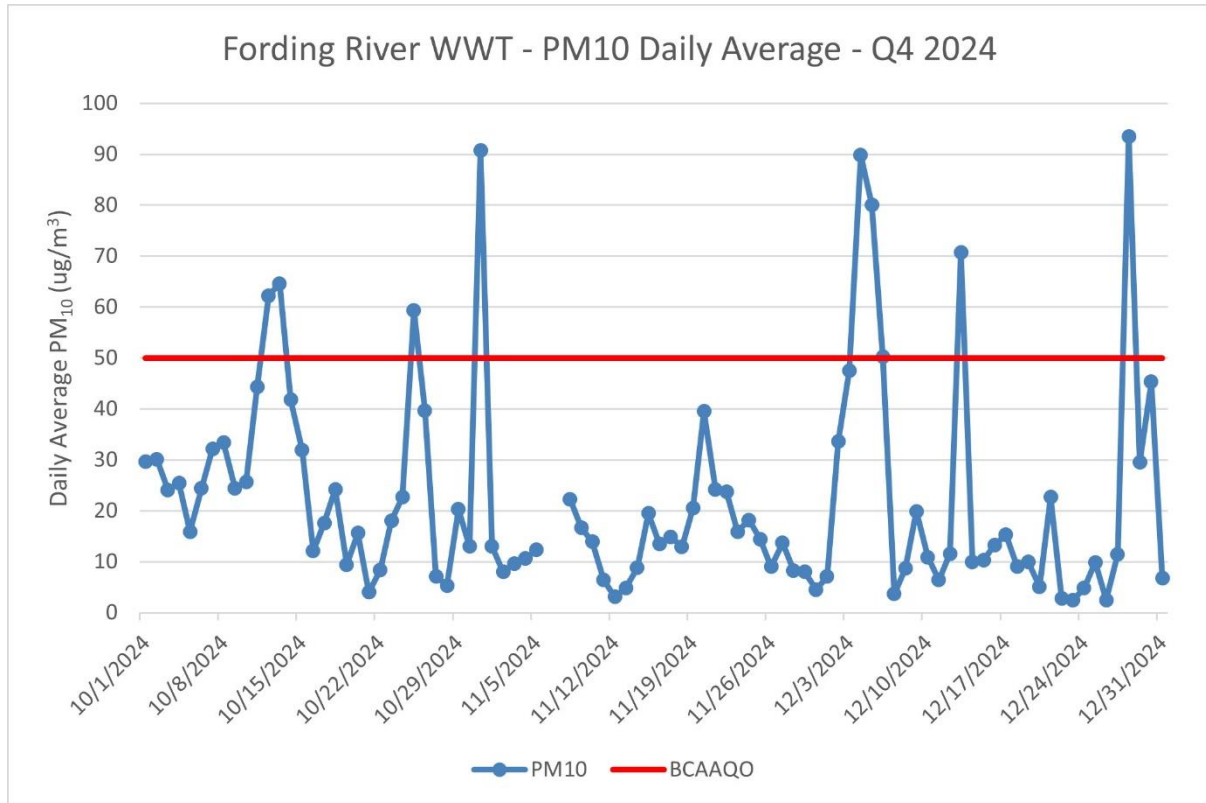


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Total suspended particulates (TSP) are the total sum of all monitored particulate matter suspended in air which includes PM_{2.5} and PM₁₀ fractions.

Zero days monitored in Q4 had a daily average above the TSP daily BCAAQO. EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

Data completeness requirements were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.

Fording River PM₁₀

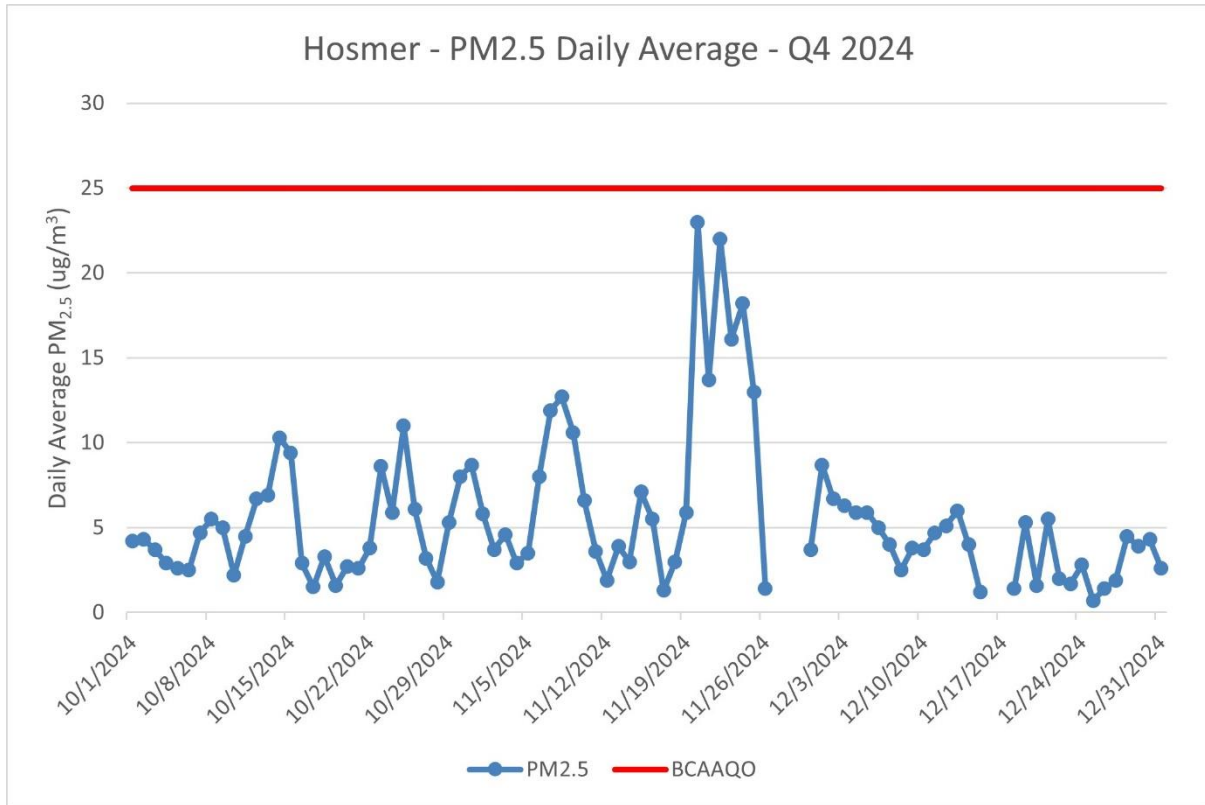


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM₁₀) may be associated with dust from mining activities, local roads and highways, construction activities, and wood burning stoves but can also be impacted by wildfire smoke.

Ten percent of days monitored in Q4 had a daily average above the PM₁₀ daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the close proximity of the monitor to mining activity, dust generated during mining activity, and inversion conditions coupled with cold, dry winter conditions making some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

Data completeness requirements were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.

Hosmer PM_{2.5}

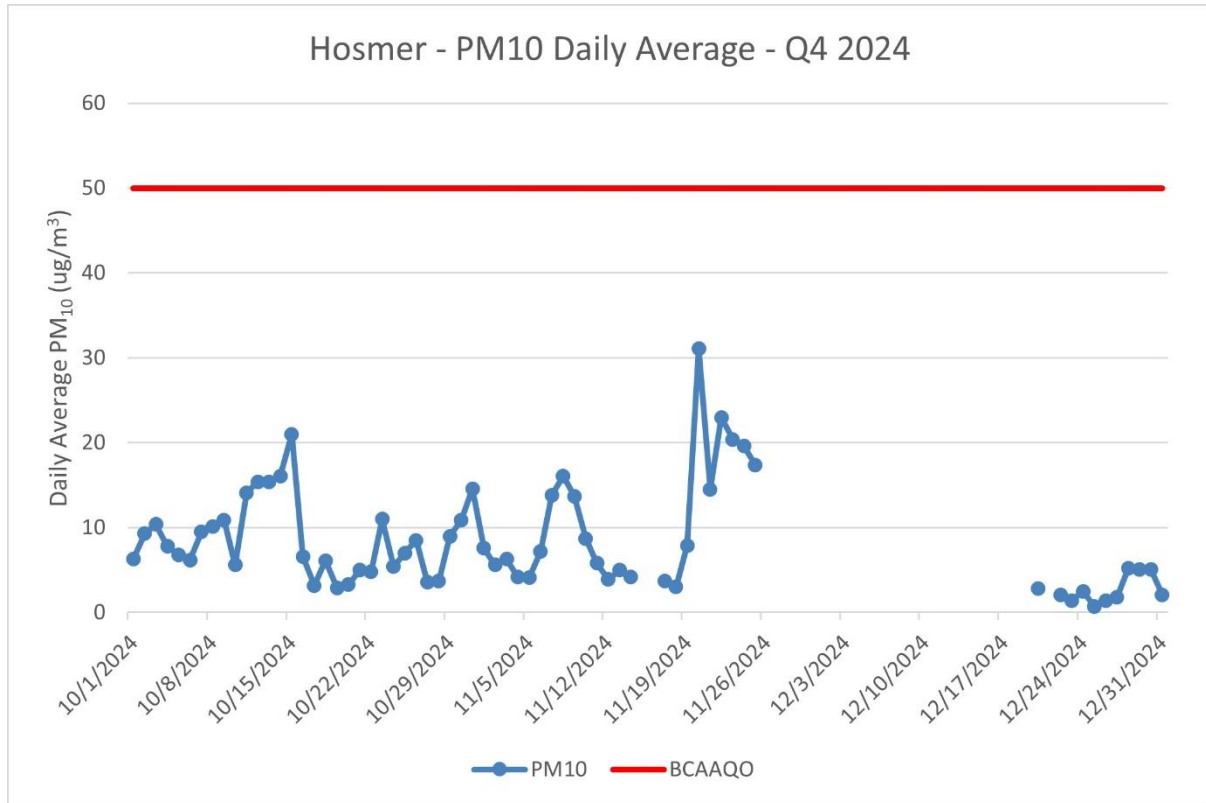


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 2.5 microns or smaller in diameter (PM_{2.5}) may be associated with combustion particles, such as wildfire smoke.

Zero days monitored in Q4 had a daily average above the PM_{2.5} daily BCAAQO.

Data completeness targets were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures. In Q4 the Hosmer monitor was relocated inside a temperature control shelter to improve data completeness.

Hosmer PM₁₀



The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM₁₀) may be associated with dust from mining activities, local roads and highways, construction activities, and wood burning stoves but can also be impacted by wildfire smoke.

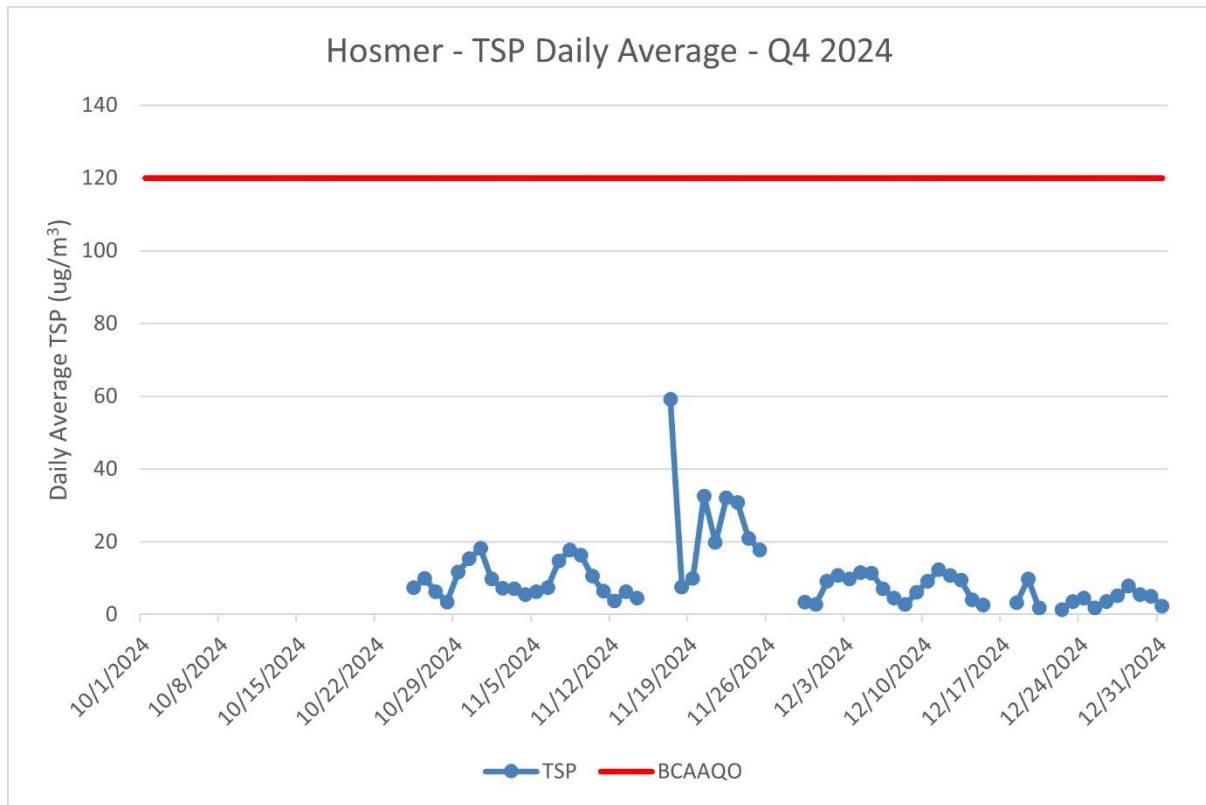
Zero days monitored in Q4 had a daily average above the PM₁₀ daily BCAAQO.

Data completeness targets were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures. Significant data gaps in Q4 were a result of instrument malfunction and pressure board maintenance. In Q4 the Hosmer monitor was relocated inside a temperature control shelter to improve data completeness.



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Hosmer TSP



The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Total suspended particulates (TSP) are the total sum of all monitored particulate matter suspended in air which includes PM_{2.5} and PM₁₀ fractions.

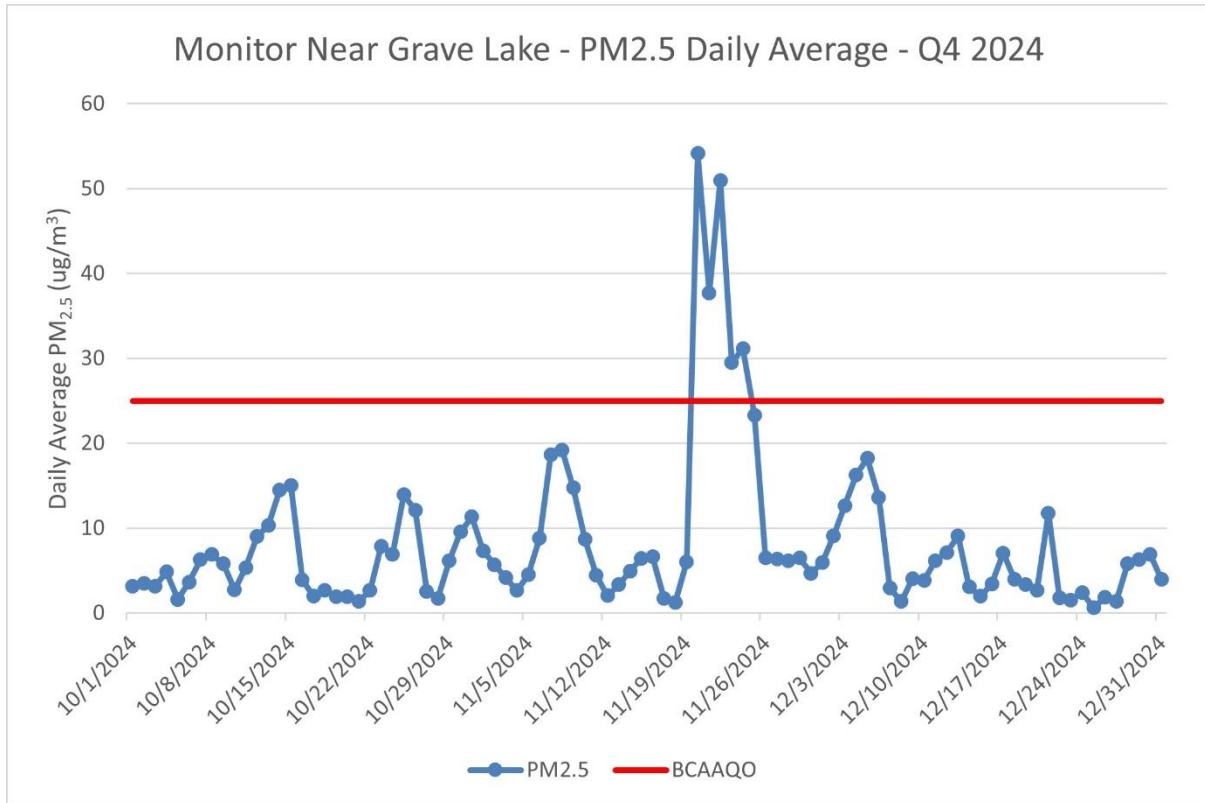
Zero days monitored in Q4 had a daily average above the TSP daily BCAAQO.

Data completeness targets were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures. Significant data gaps in Q4 were a result of the monitor being removed for maintenance. In Q4 the Hosmer monitor was relocated inside a temperature control shelter to improve data completeness.



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Line Creek PM_{2.5}



The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 2.5 microns or smaller in diameter (PM_{2.5}) may be associated with combustion particles, such as wildfire smoke.

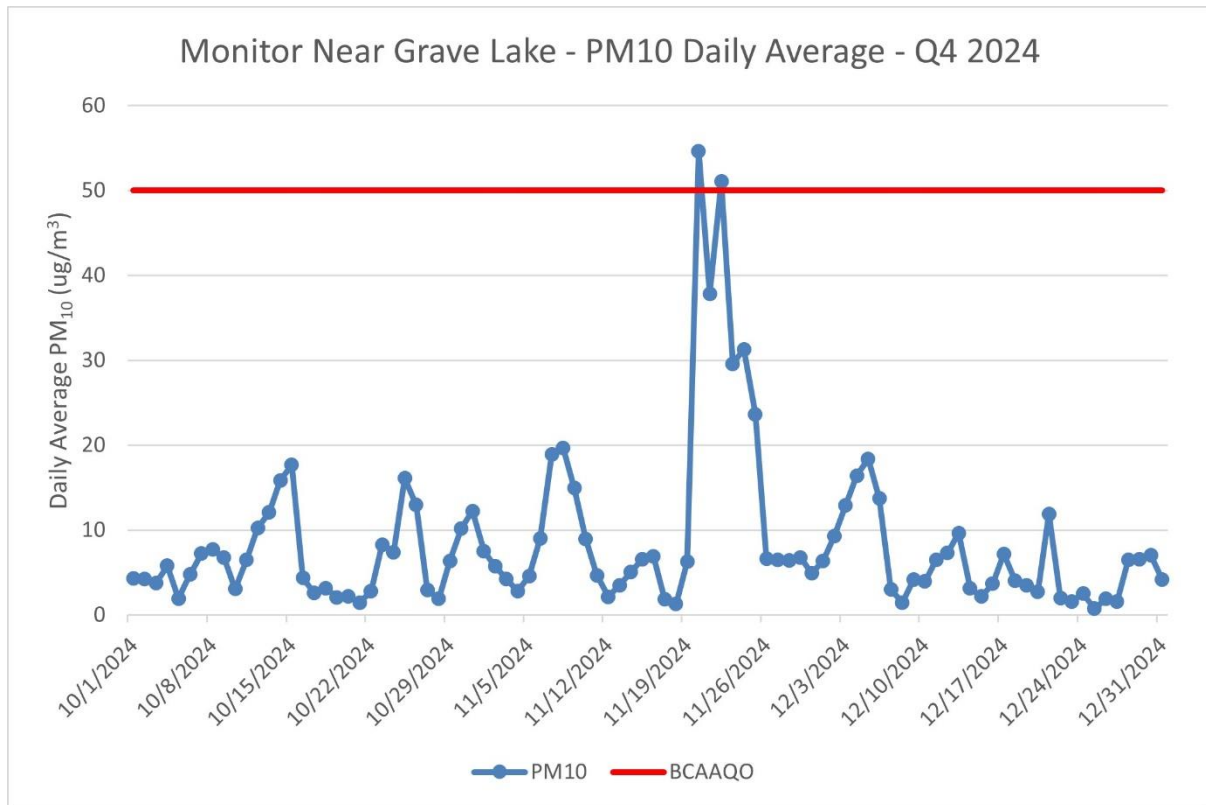
Five percent of days monitored in Q4 had a daily average above the PM_{2.5} daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the presence of wood smoke from slash pile burning near Elkford. This is supported by the Air Quality Advisory and Open Burning Restrictions notice issued for Elkford by the Ministry of Environment and Climate Change (ENV) on November 21st. The monitor near Grave Lake utilizes light scattering technology which can read artificially high PM levels when impacted by smoke and dust generated during mining activity may have also contributed to the elevated particulate matter levels as cold, dry winter conditions make some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

Data completeness requirements were met in Q4. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.



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Line Creek PM₁₀

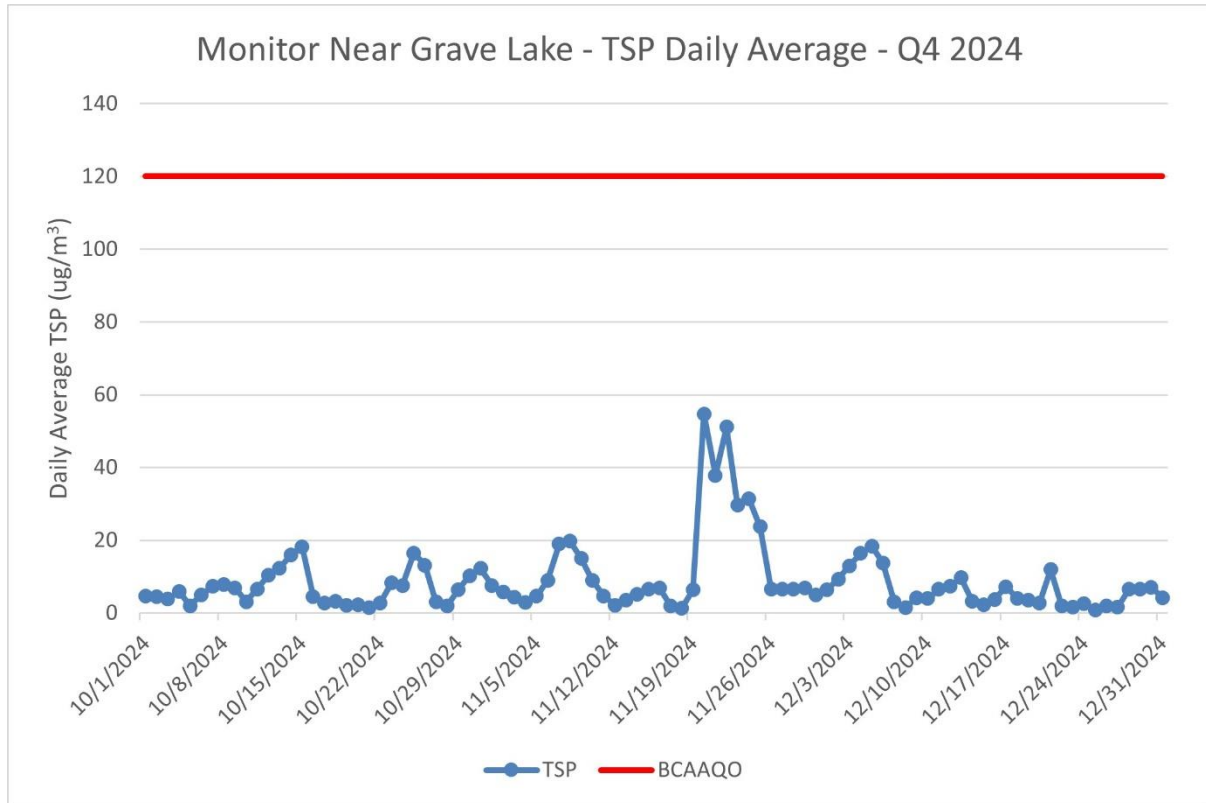


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM₁₀) may be associated with dust from mining activities, local roads and highways, construction activities, and wood burning stoves but can also be impacted by wildfire smoke.

Two percent of days monitored in Q4 had a daily average above the PM₁₀ daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the presence of smoke from slash pile burning near Elkford. This is supported by the Air Quality Advisory and Open Burning Restrictions notice issued for Elkford by the Ministry of Environment and Climate Change (ENV) on November 21st. Additionally, the monitor near Grave Lake utilizes light scattering technology which can read artificially high PM levels when impacted by smoke and dust generated during mining activity may have also contributed to the elevated particulate matter levels as cold, dry winter conditions make some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

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Line Creek TSP



The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Total suspended particulates (TSP) are the total sum of all monitored particulate matter suspended in air which includes PM_{2.5} and PM₁₀ fractions.

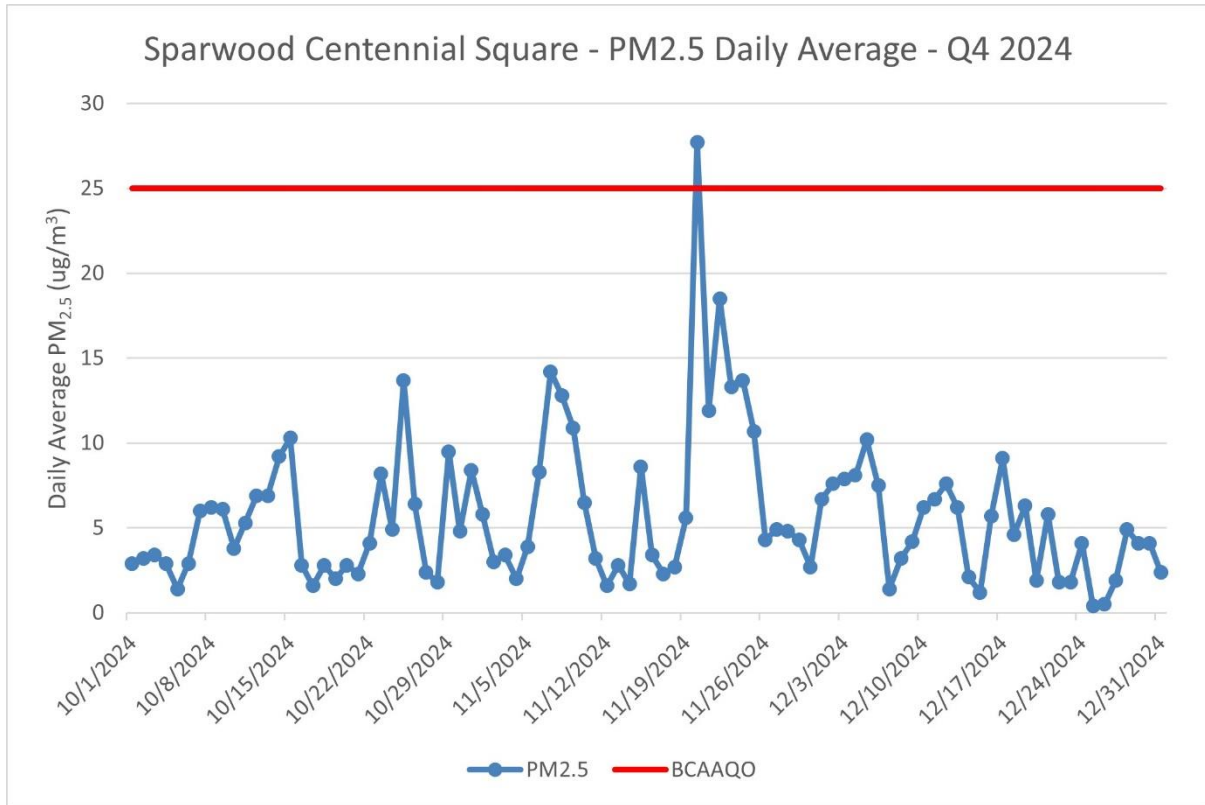
Zero days monitored in Q4 had a daily average above the TSP daily BCAAQO. EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plan.

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Sparwood Centennial Square PM_{2.5}



The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 2.5 microns or smaller in diameter (PM_{2.5}) may be associated with combustion particles, such as wildfire smoke.

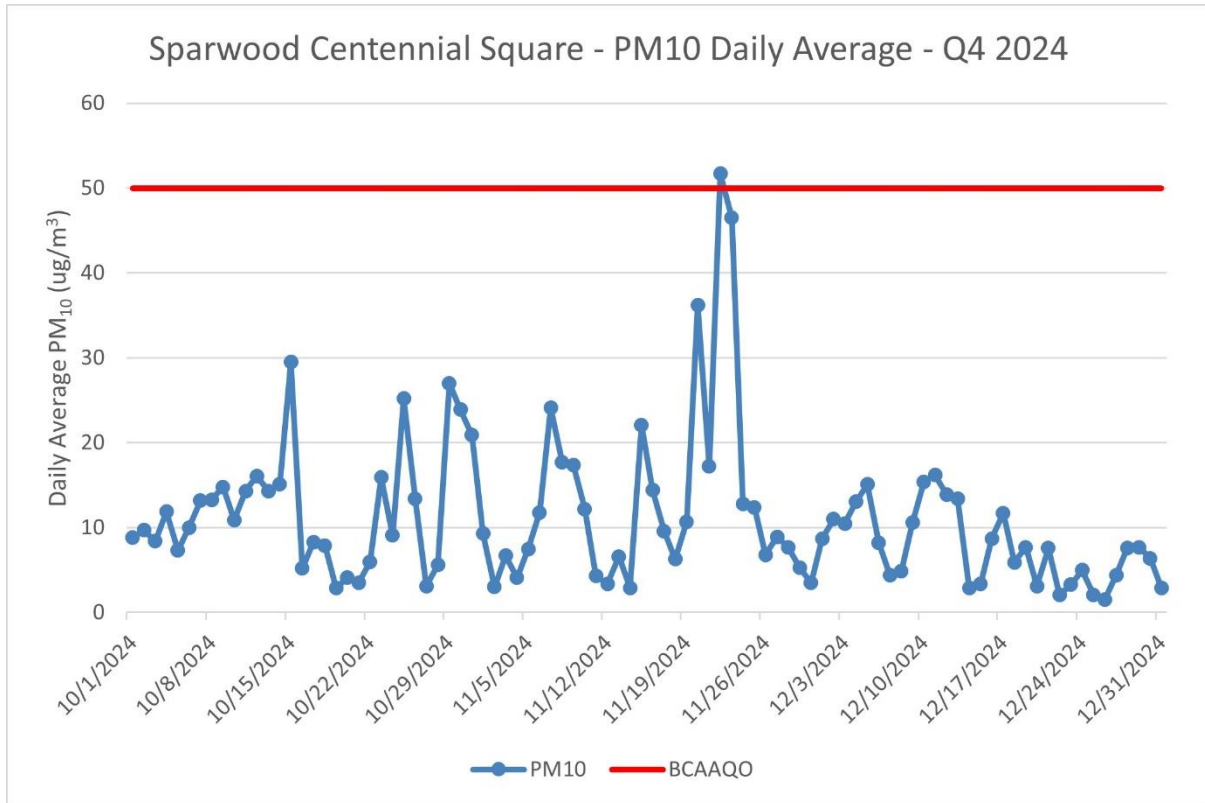
One percent of days monitored in Q4 had a daily average above the PM_{2.5} daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the presence of smoke from slash pile burning near Elkford. This is supported by the Air Quality Advisory and Open Burning Restrictions notice issued for Elkford by the Ministry of Environment and Climate Change (ENV) on November 21st. Dust generated during mining activity may have also contributed to the elevated particulate matter levels as cold, dry winter conditions make some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

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Sparwood Centennial Square PM₁₀



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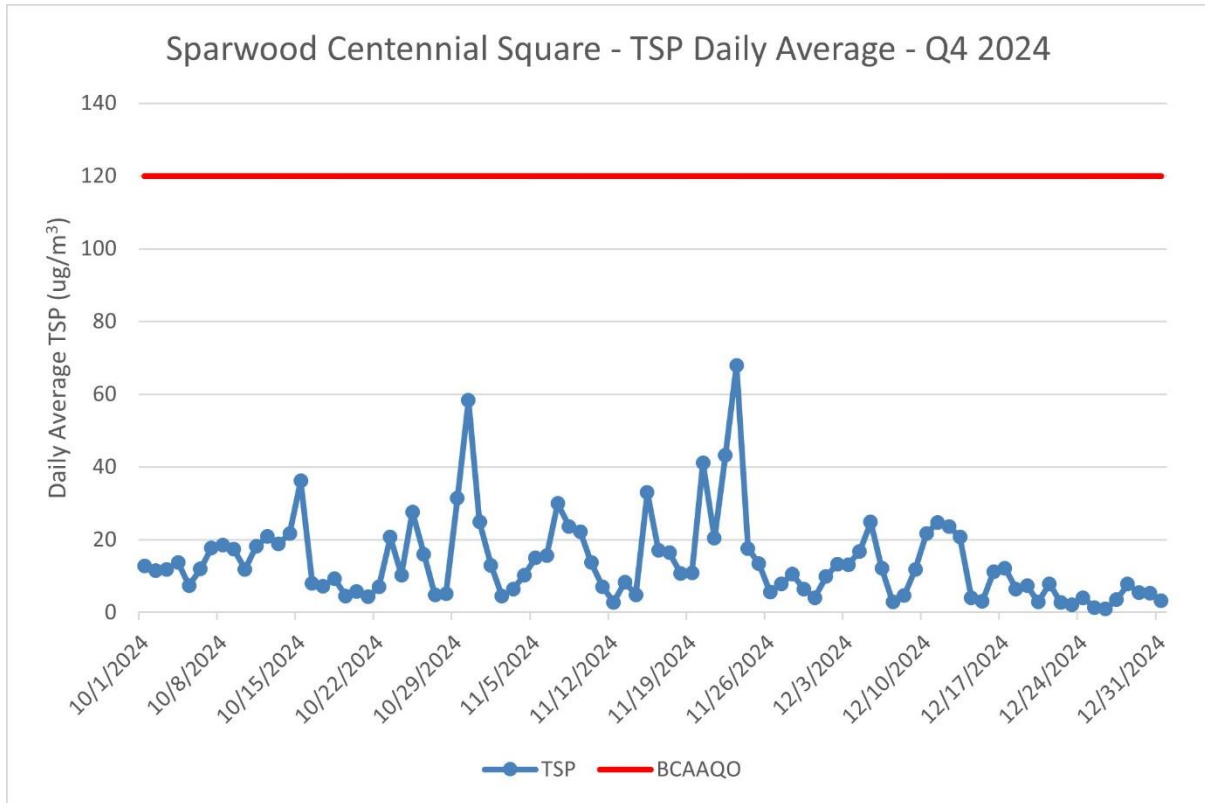
One percent of days monitored in Q4 had a daily average above the PM₁₀ daily BCAAQO. The elevated particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with the presence of smoke from slash pile burning near Elkford. This is supported by the Air Quality Advisory and Open Burning Restrictions notice issued for Elkford by the Ministry of Environment and Climate Change (ENV) on November 21st. Dust generated during mining activity may have also contributed to the elevated particulate matter levels as cold, dry winter conditions make some mitigations unsafe to use (e.g., watering roads). EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

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Sparwood Centennial Square TSP



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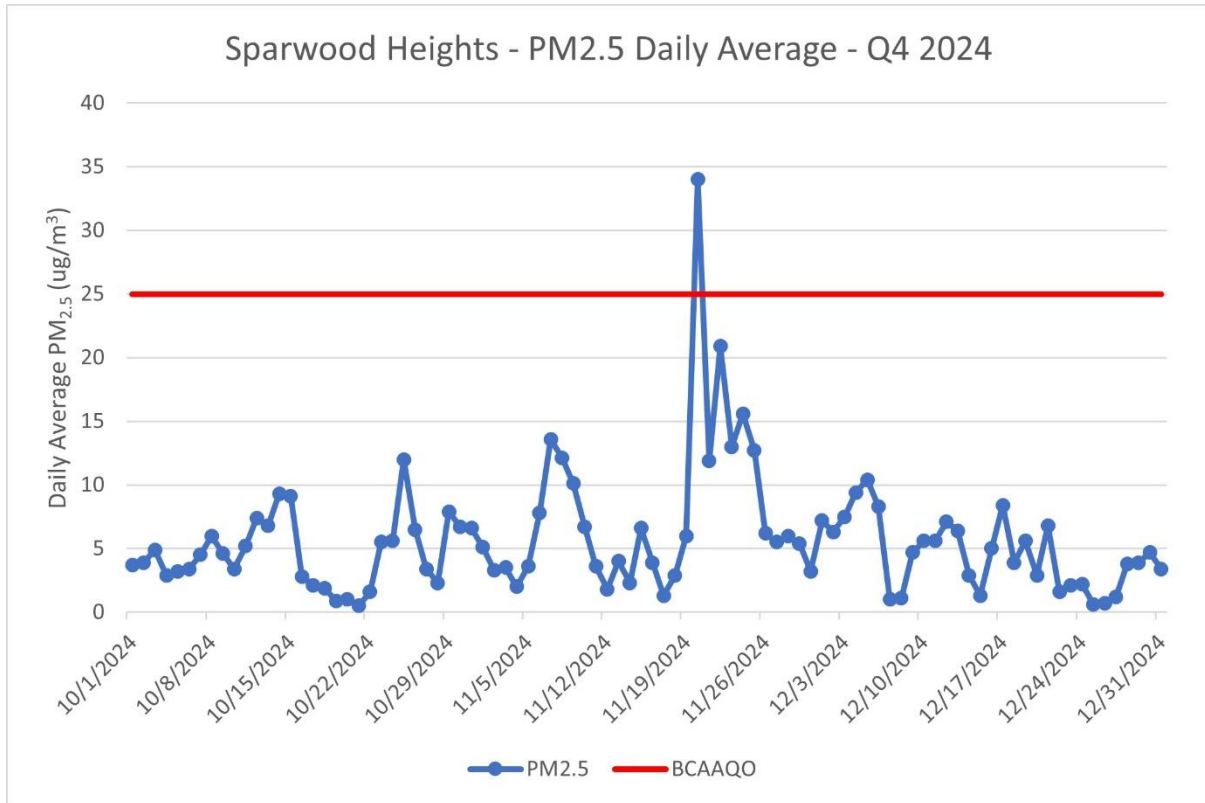
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Sparwood Heights PM_{2.5}



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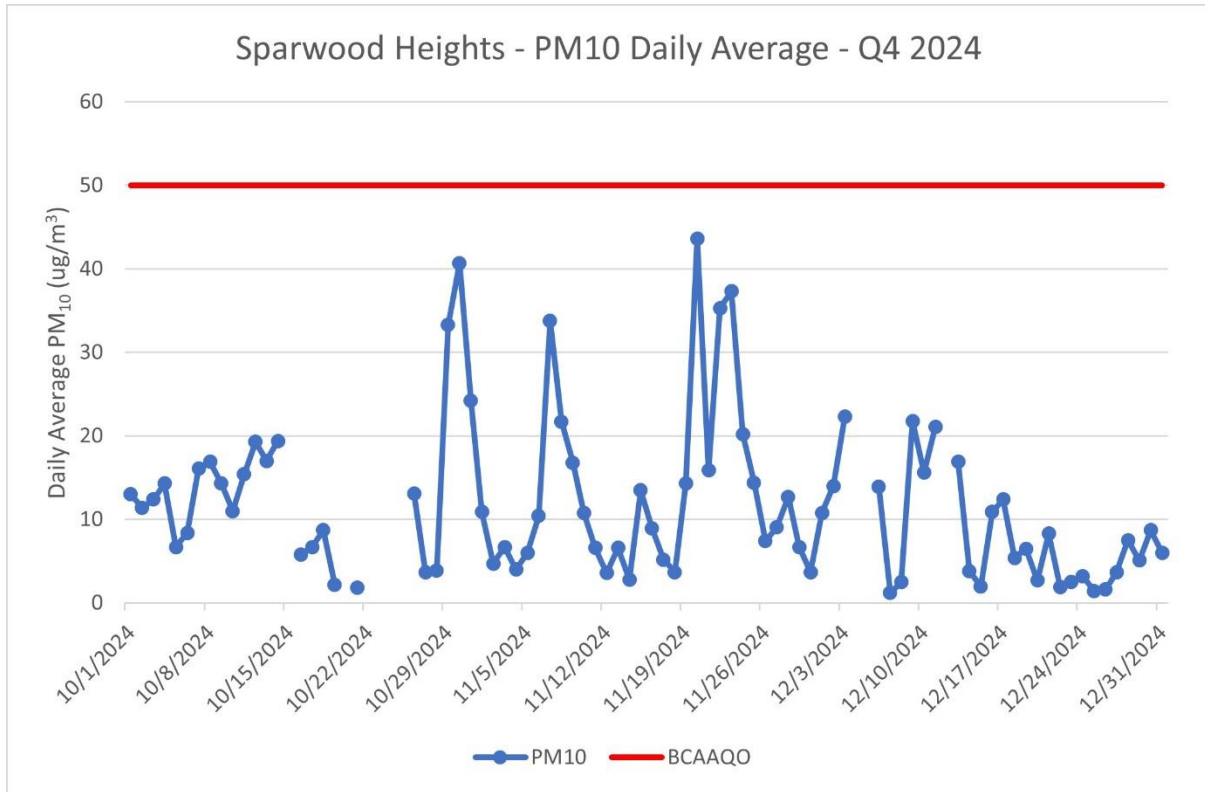
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Sparwood Heights PM₁₀



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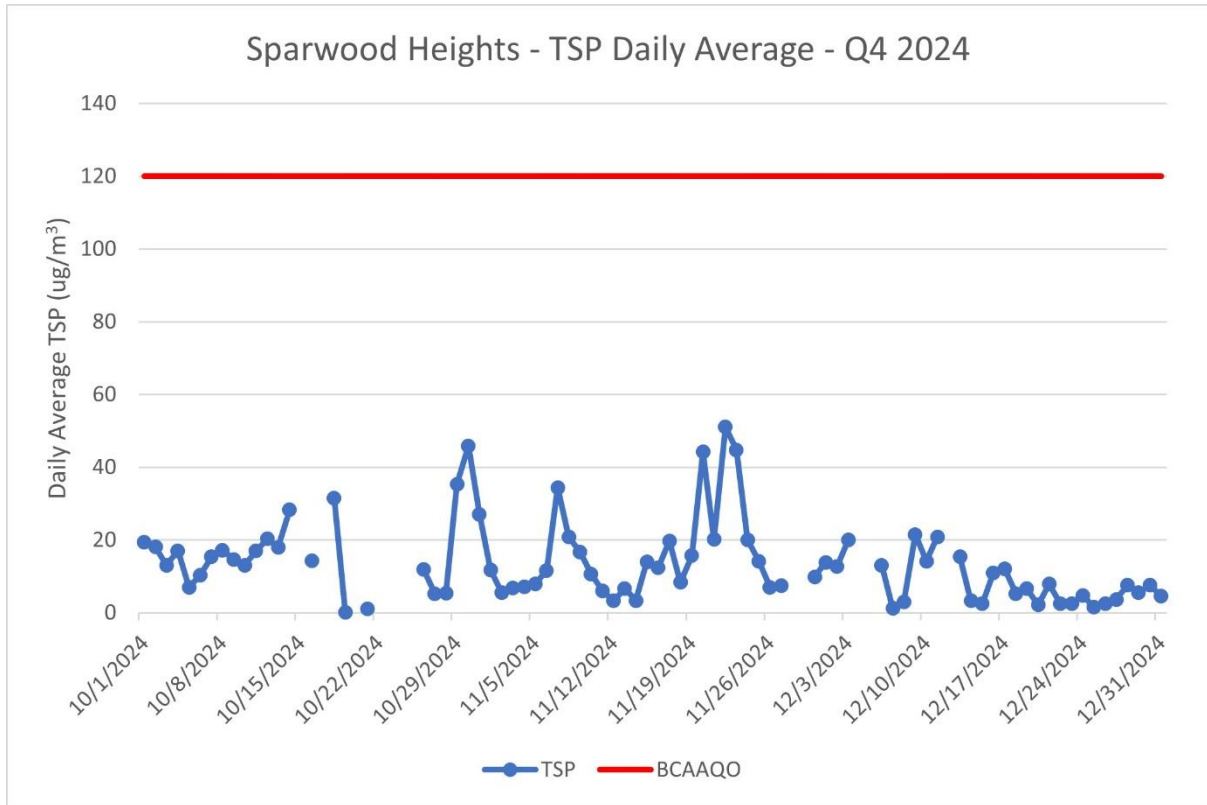
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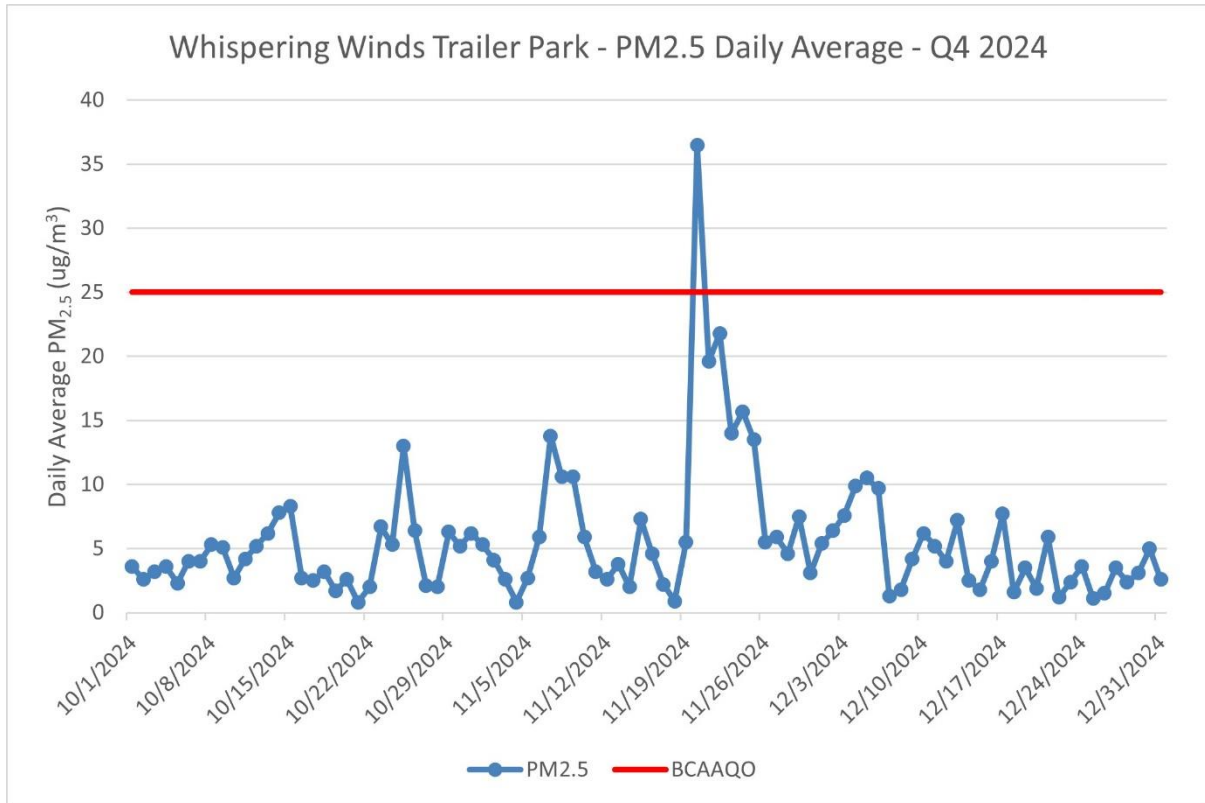
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Whispering Winds PM_{2.5}

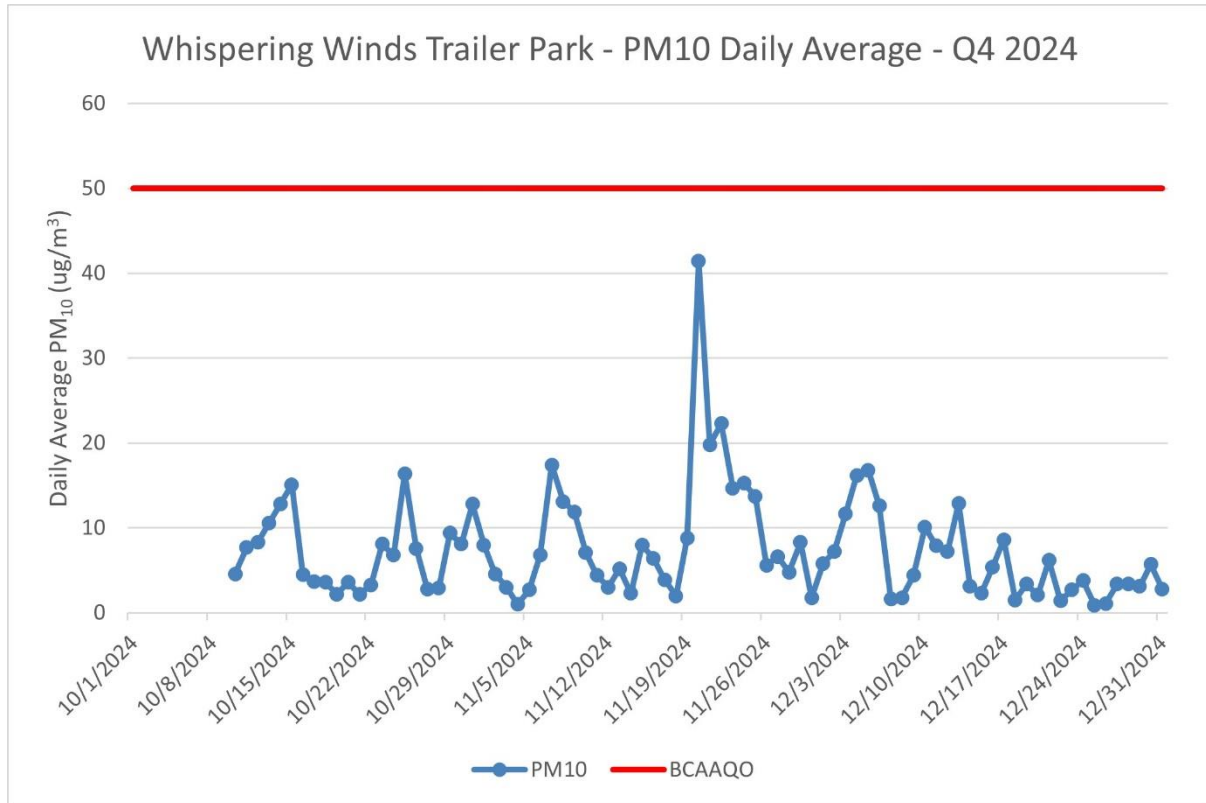


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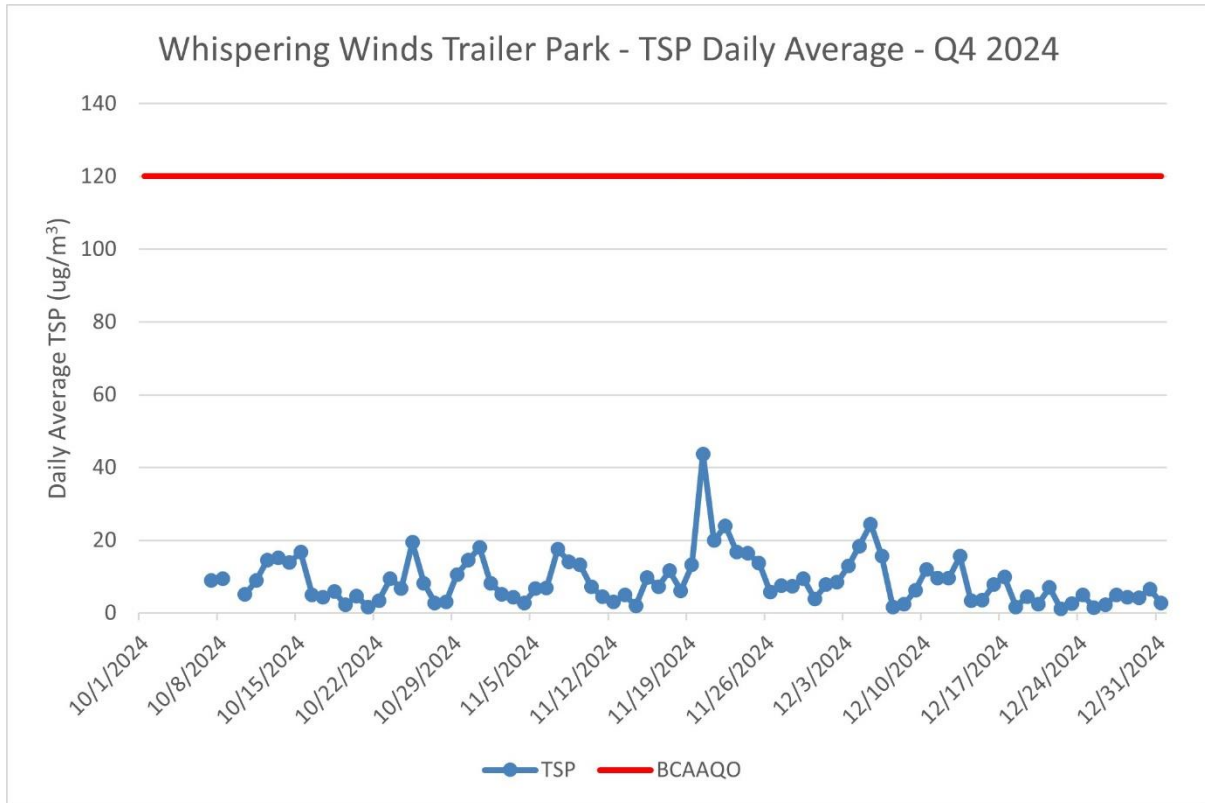
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