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**Document:** 2024 Third Quarter Air Monitoring Results from the Elk Valley

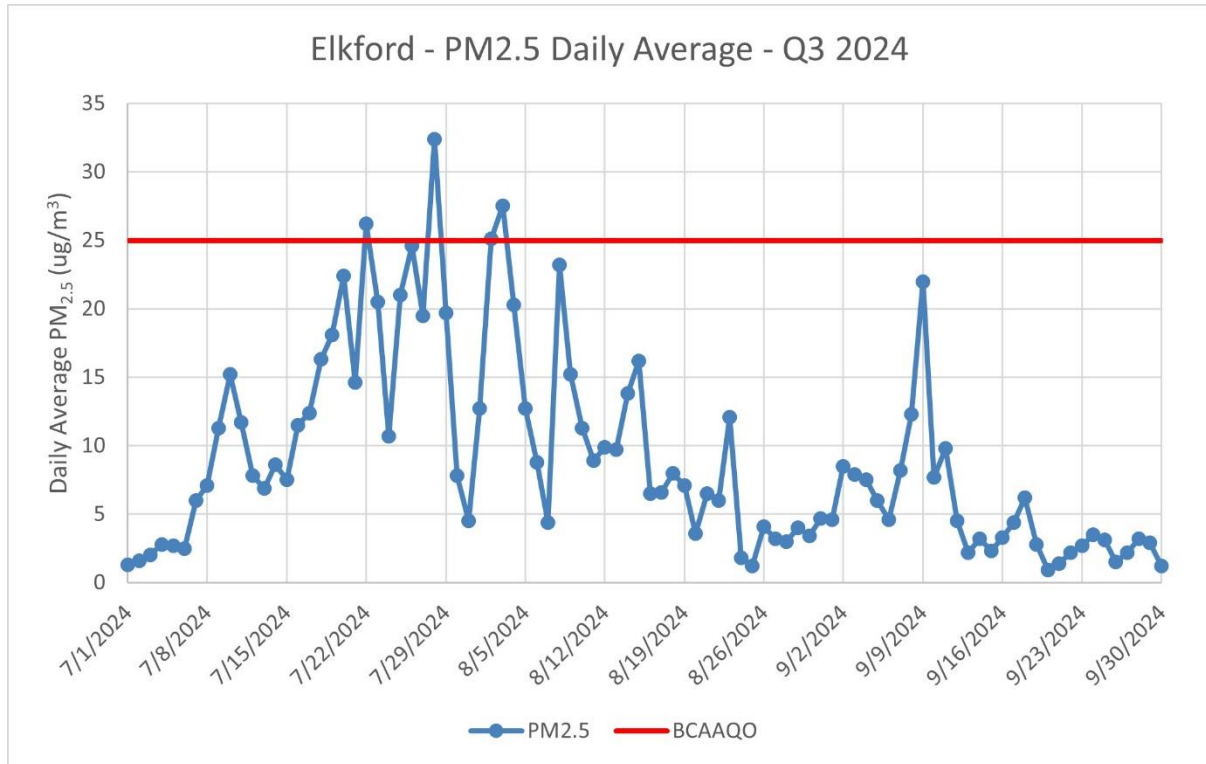
**Overview:** This document provides the 2024 third quarter (Q3) air monitoring results from air quality monitors in the Elk Valley for total suspended particulate (TSP), particulate matter 10 microns or smaller in diameter (PM10), and particulate matter 2.5 microns or smaller in diameter (PM2.5) compared 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](mailto:info@evr.com)

## Elkford PM<sub>2.5</sub>

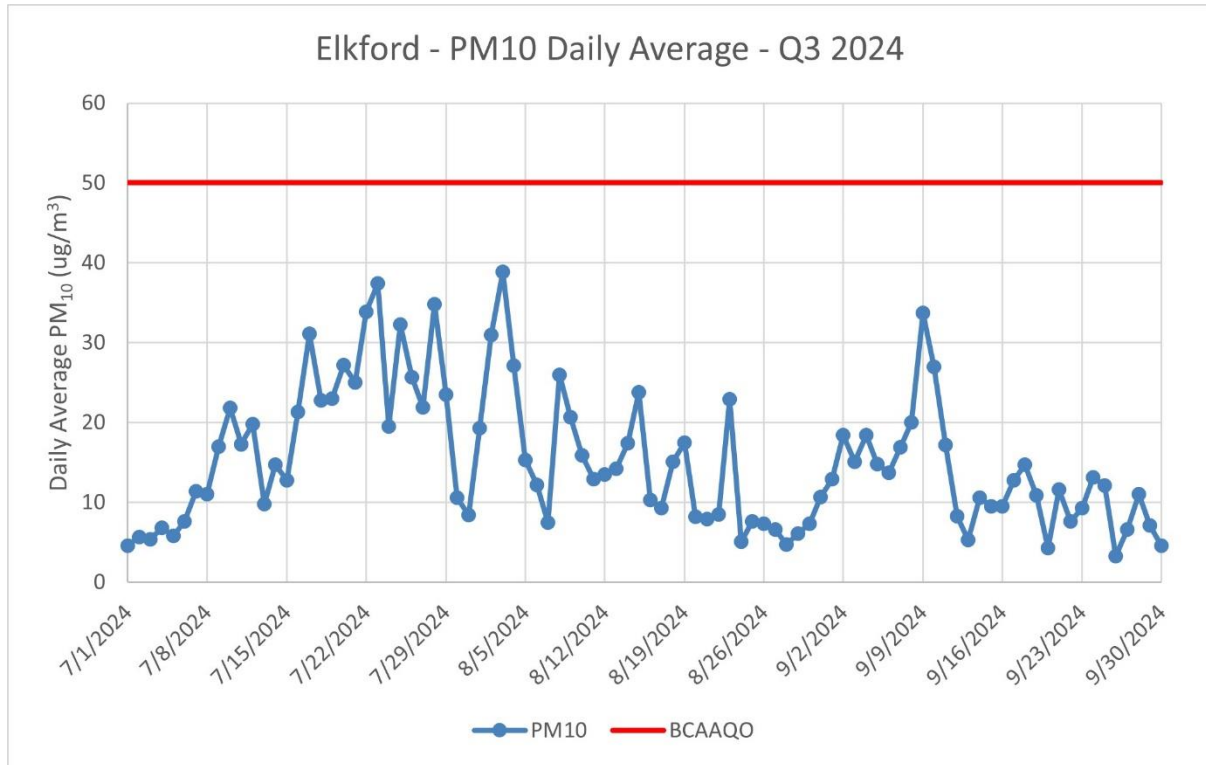


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 2.5 microns or smaller in diameter (PM<sub>2.5</sub>) may be associated with combustion particles, such as wildfire smoke.

Four percent of days monitored in Q3 had a daily average above the PM<sub>2.5</sub> daily BCAAQO. The high particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with wildfire smoke. Dust generated during mining activity may have also contributed to the elevated particulate matter levels. 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 expectations were met in Q3. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.

## Elkford PM<sub>10</sub>

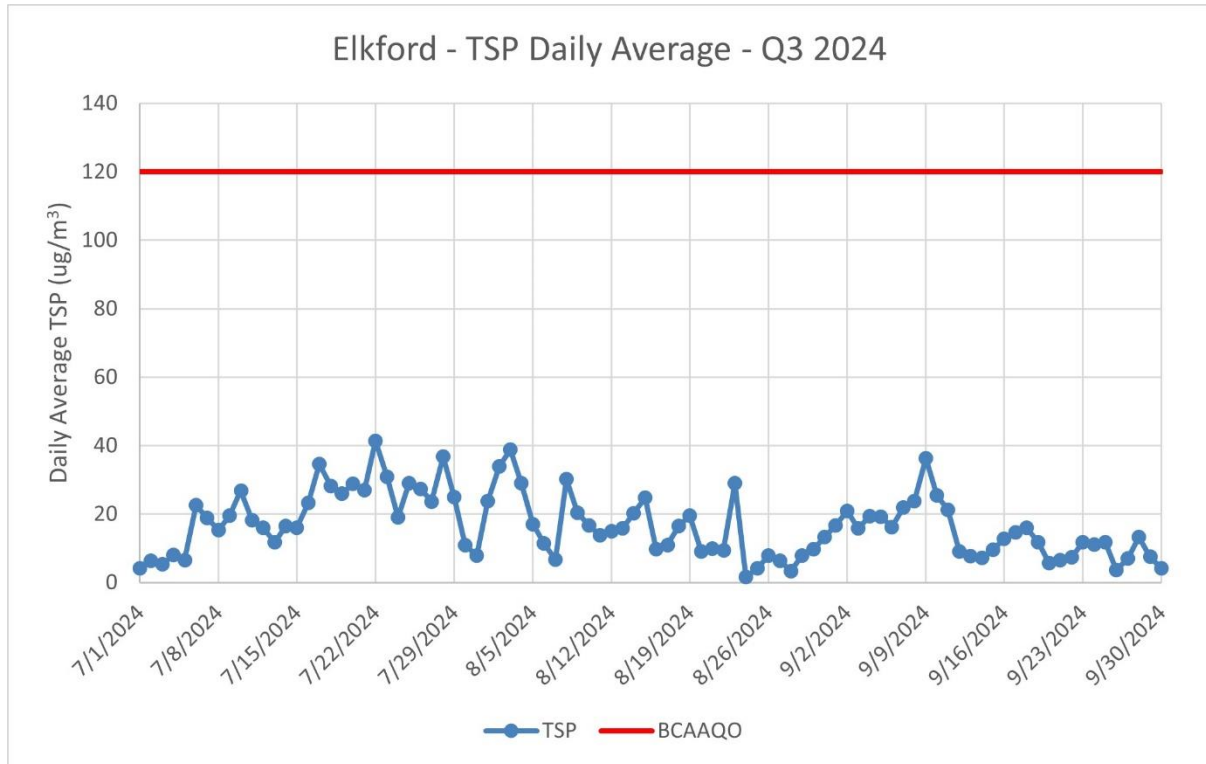


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM<sub>10</sub>) may be associated with dust from mining activities, local roads and highways,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

Zero days monitored in Q3 had a daily average above the PM<sub>10</sub> 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 expectations were met in Q3. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.

## 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<sub>2.5</sub> and PM<sub>10</sub> fractions.

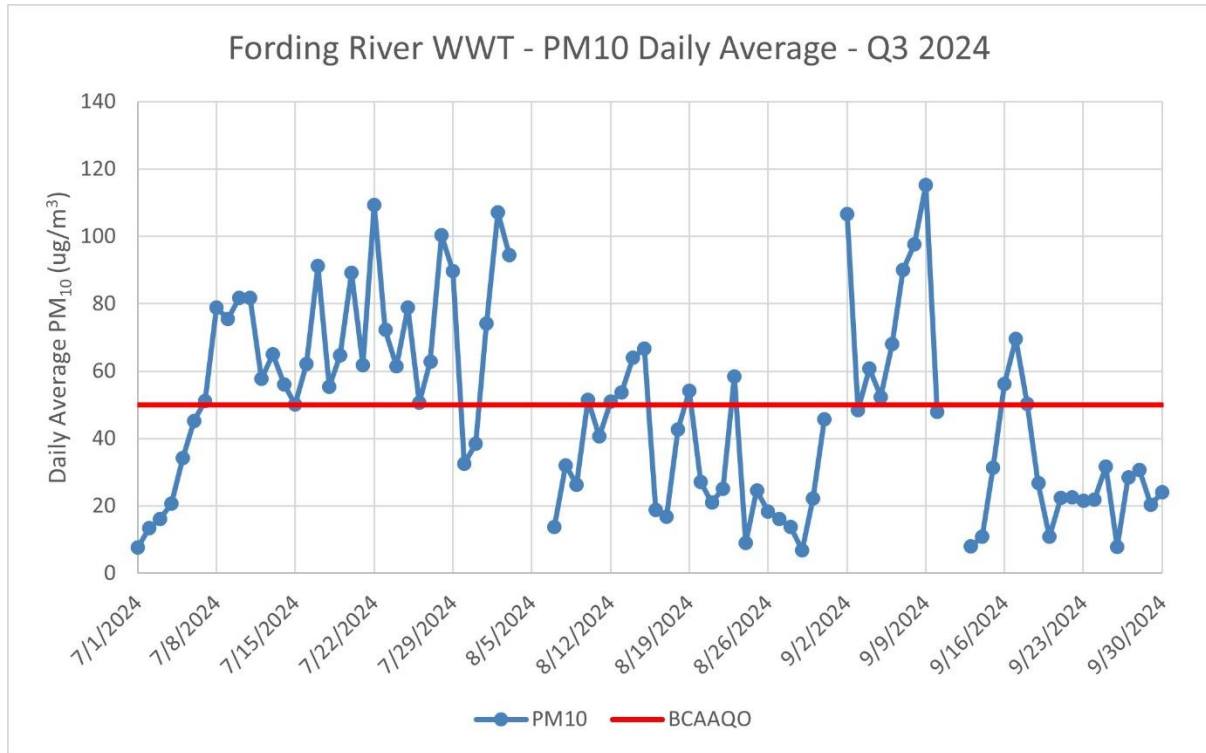
Zero days monitored in Q3 had a daily average above the TSP daily BCAAQO. EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

Data completeness expectations were met in Q3. 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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## Fording River PM<sub>10</sub>

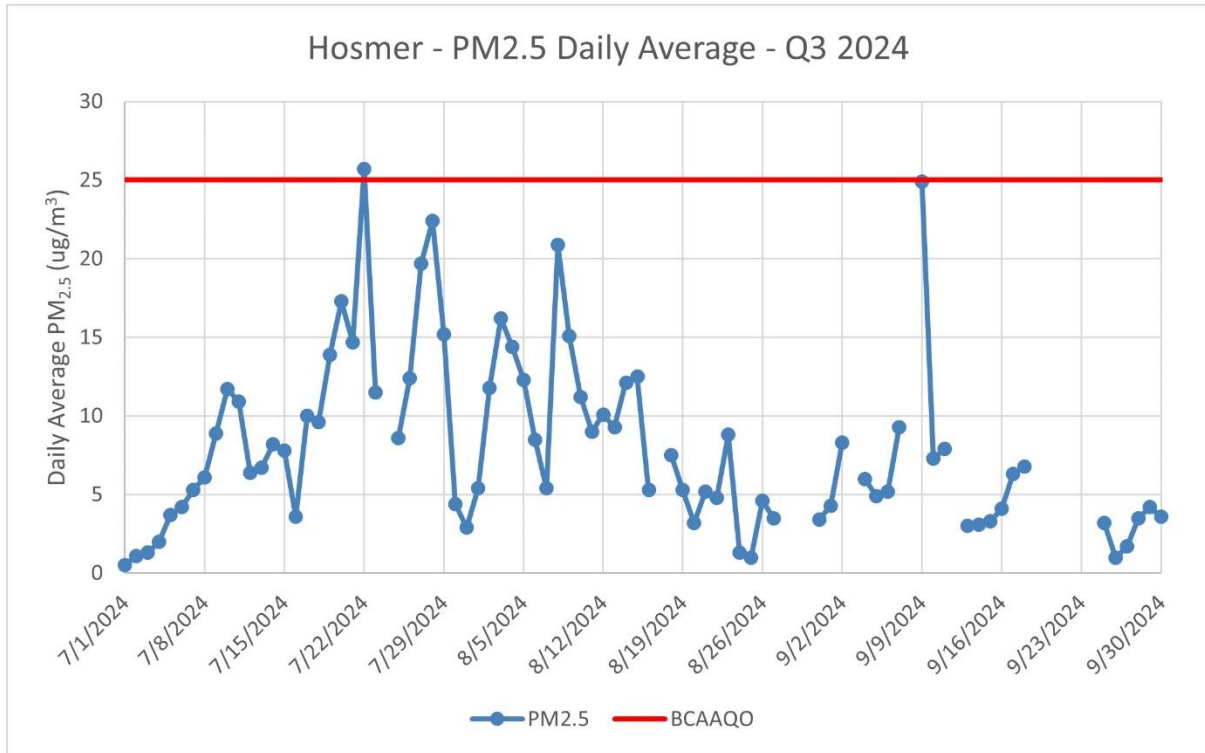


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM<sub>10</sub>) may be associated with dust from mining activities, local roads and highways,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

Fifty percent of days monitored in Q3 had a daily average above the PM<sub>10</sub> daily BCAAQO. The high 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, inversion conditions, and wildfire smoke. 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 expectations were met in Q3. 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<sub>2.5</sub>

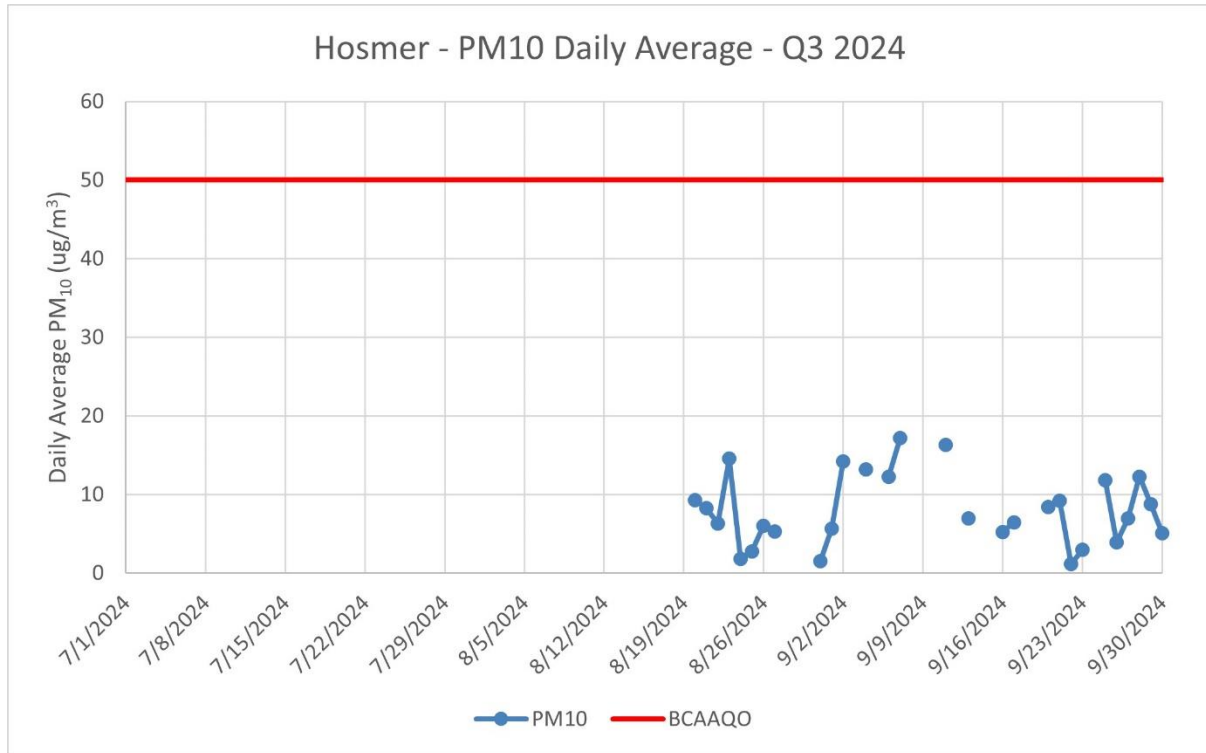


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 2.5 microns or smaller in diameter (PM<sub>2.5</sub>) may be associated with combustion particles, such as wildfire smoke.

One percent of days monitored in Q3 had a daily average above the PM<sub>2.5</sub> daily BCAAQO. The high particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with wildfire smoke.

Data completeness expectations were met in Q3. 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<sub>10</sub>

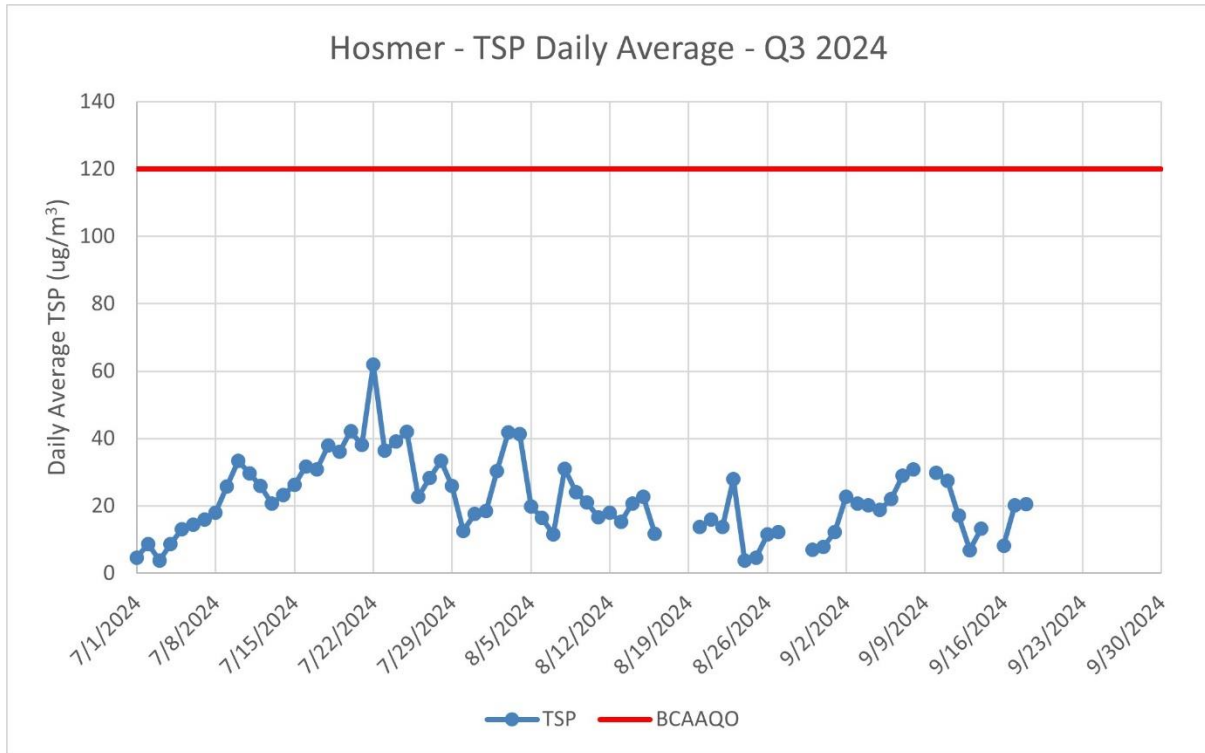


The continuous ambient air quality monitors alert EVR of particulate matter levels above the daily British Columbia Ambient Air Quality Objective (BCAAQO). Particulate matter 10 microns or smaller in diameter (PM<sub>10</sub>) may be associated with dust from mining activities, local roads and highways,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

Zero days monitored in Q3 had a daily average above the PM<sub>10</sub> daily BCAAQO.

Data completeness expectations were not met in Q3. Monitor upgrades have been planned which may improve data completeness at this station. 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 loss at Hosmer during Q3 was caused by the PM<sub>10</sub> monitor being removed for servicing from July to mid-August.

## 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<sub>2.5</sub> and PM<sub>10</sub> fractions.

Zero days monitored in Q3 had a daily average above the TSP daily BCAAQO.

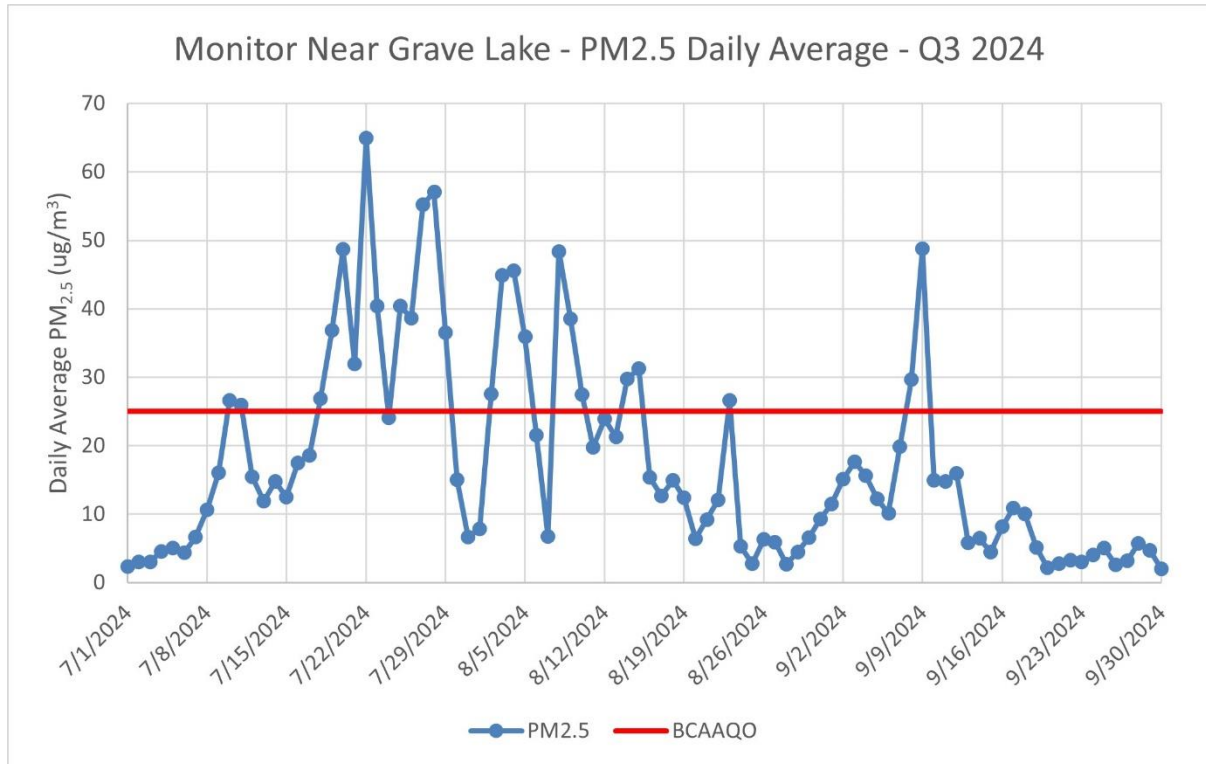
Data completeness expectations were not met in Q3. Monitor upgrades have been planned which may improve data completeness at this station. Data gaps are typically the result of routine maintenance or data validation activities but can also occur due to power or equipment failures.





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## Line Creek PM<sub>2.5</sub>



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<sub>2.5</sub>) may be associated with combustion particles, such as wildfire smoke.

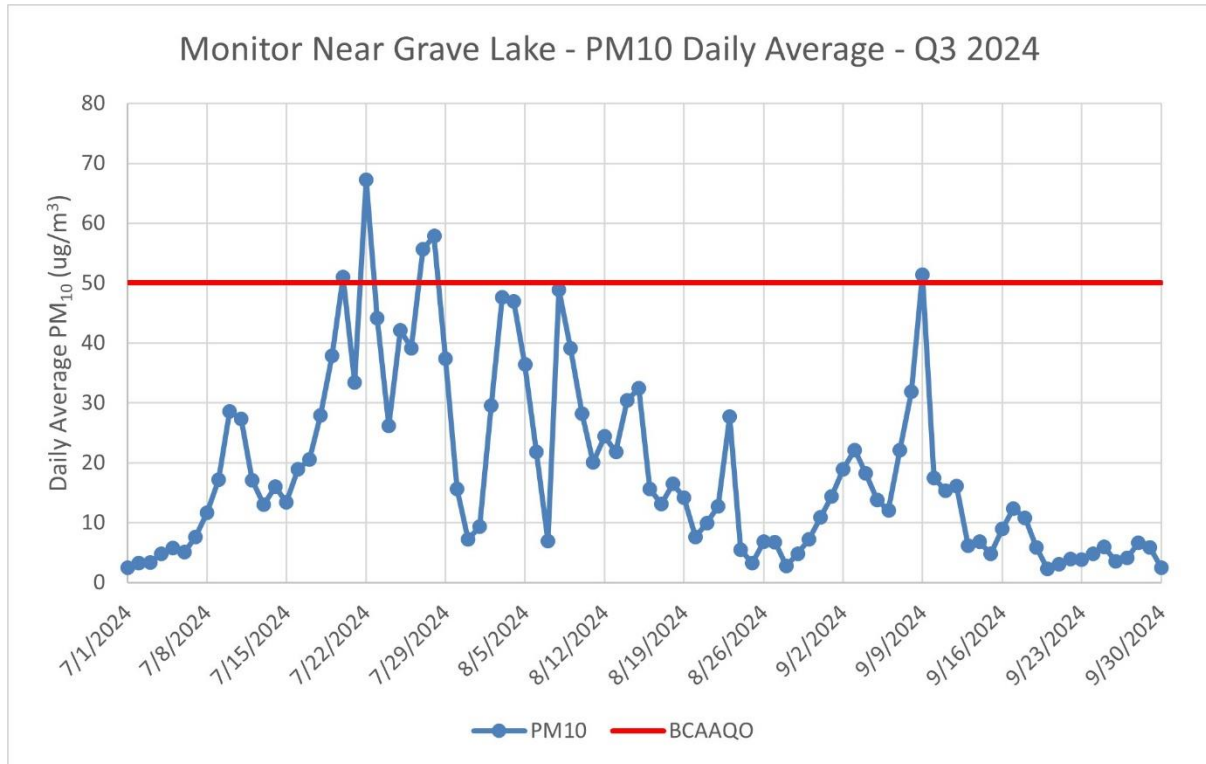
Twenty-seven percent of days monitored in Q3 had a daily average above the PM<sub>2.5</sub> daily BCAAQO. The high particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with wildfire smoke and regional hazy air conditions. The close proximity of the monitor to mining activity and dust generated during mining activity may have also contributed to the elevated particulate matter levels. 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 expectations were met in Q3. 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 PM<sub>10</sub>



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 (PM<sub>10</sub>) 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.

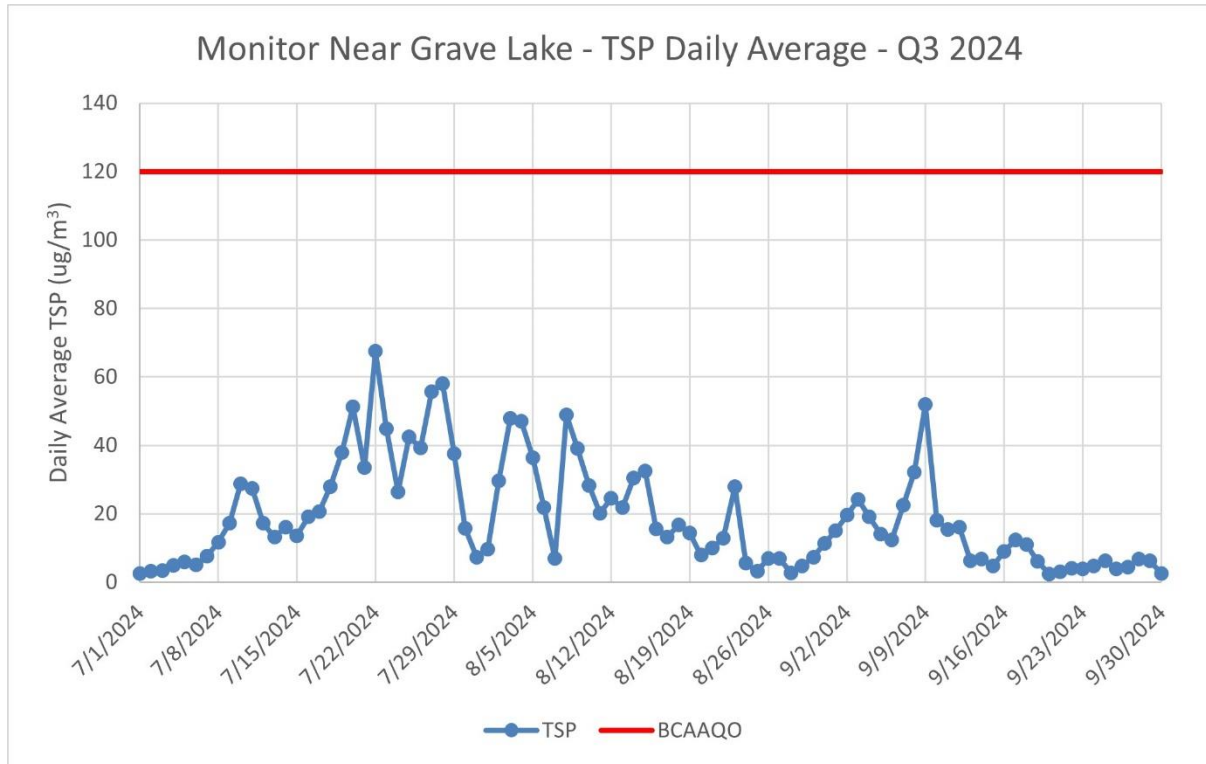
Five percent of days monitored in Q3 had a daily average above the PM<sub>10</sub> daily BCAAQO. The high particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with wildfire smoke and regional hazy air conditions. The close proximity of the monitor to mining activity and dust generated during mining activity may have also contributed to the elevated particulate matter levels. 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<sub>2.5</sub> and PM<sub>10</sub> fractions.

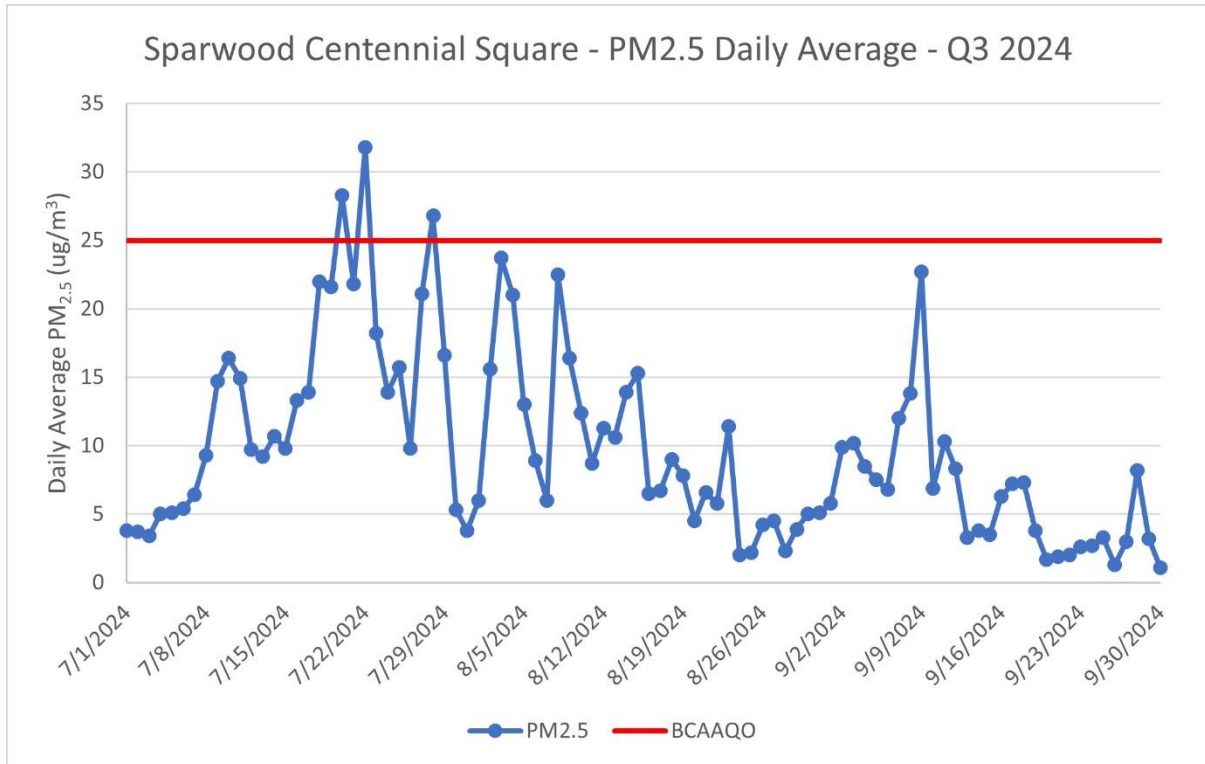
Zero days monitored in Q3 had a daily average above the TSP daily BCAAQO. EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plan.

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## Sparwood Centennial Square PM<sub>2.5</sub>



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<sub>2.5</sub>) may be associated with combustion particles, such as wildfire smoke.

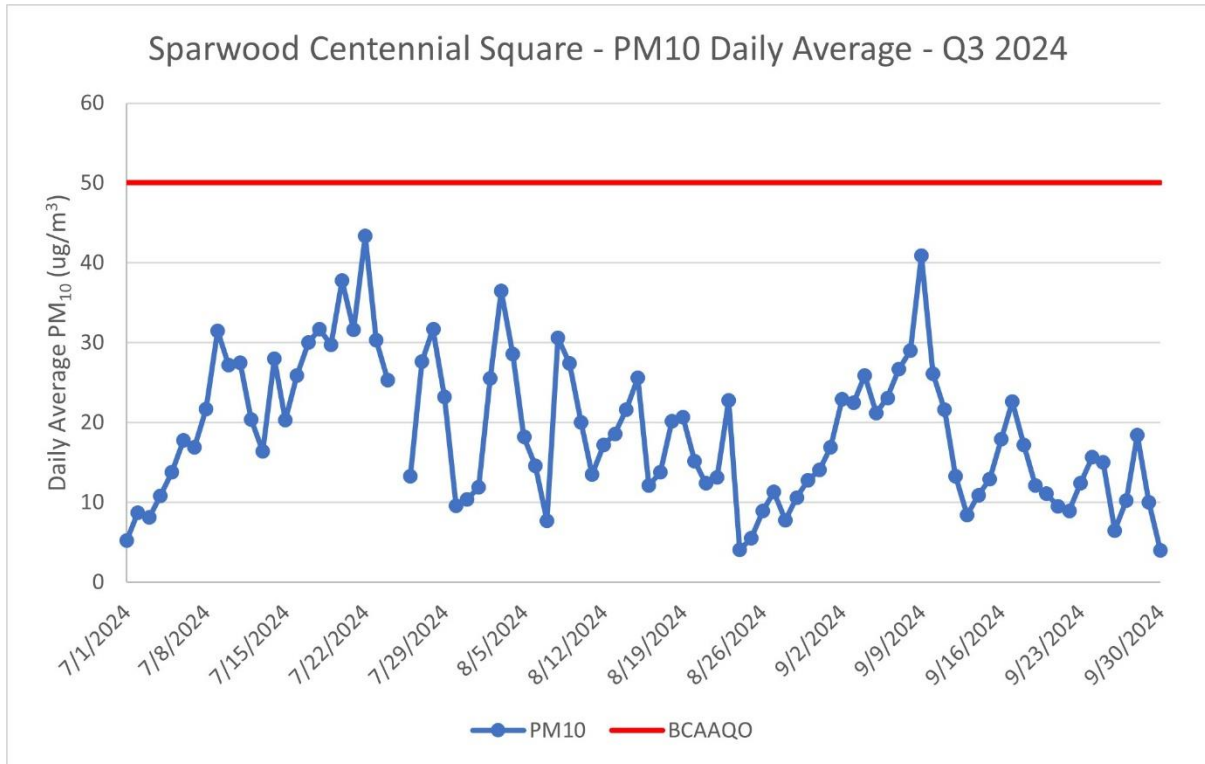
Three percent of days monitored in Q3 had a daily average above the PM<sub>2.5</sub> daily BCAAQO. The high particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with wildfire smoke. Dust generated during mining activity may have also contributed to the elevated particulate matter levels. 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 PM<sub>10</sub>



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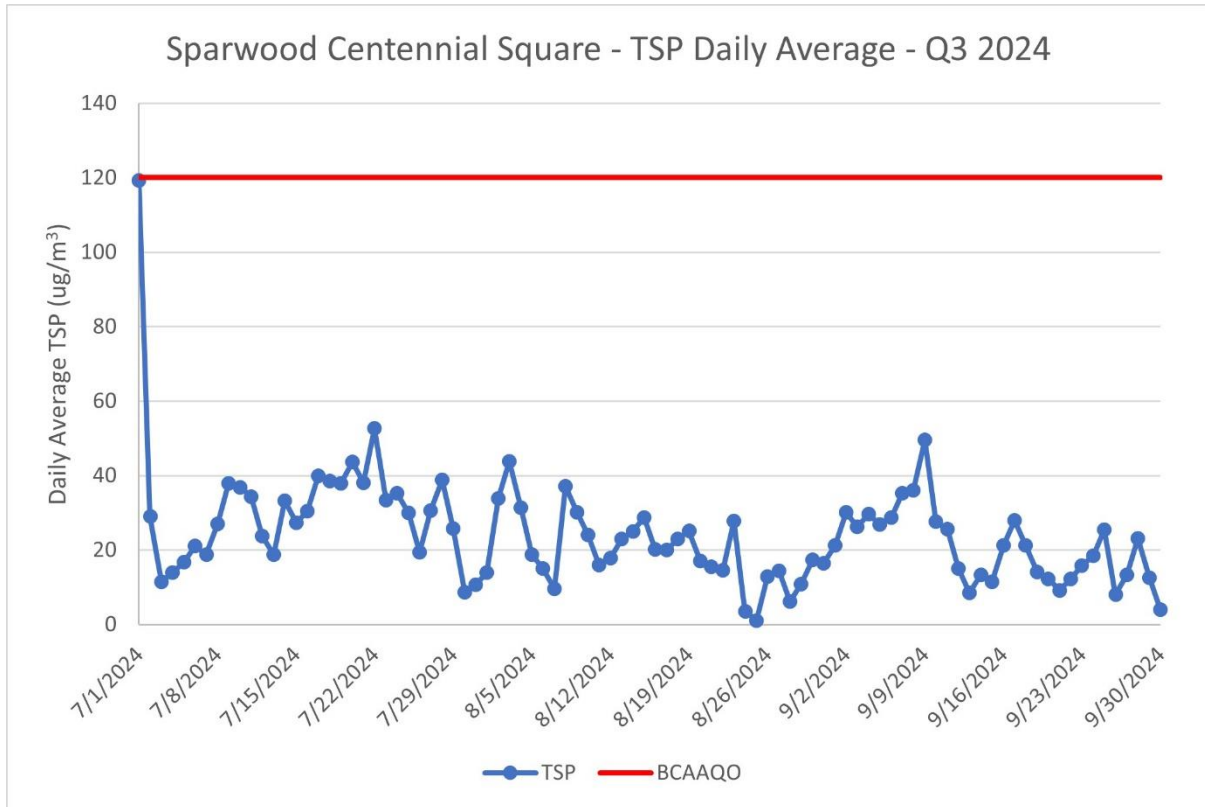
Zero days monitored in Q3 had a daily average above the PM<sub>10</sub> daily BCAAQO. EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

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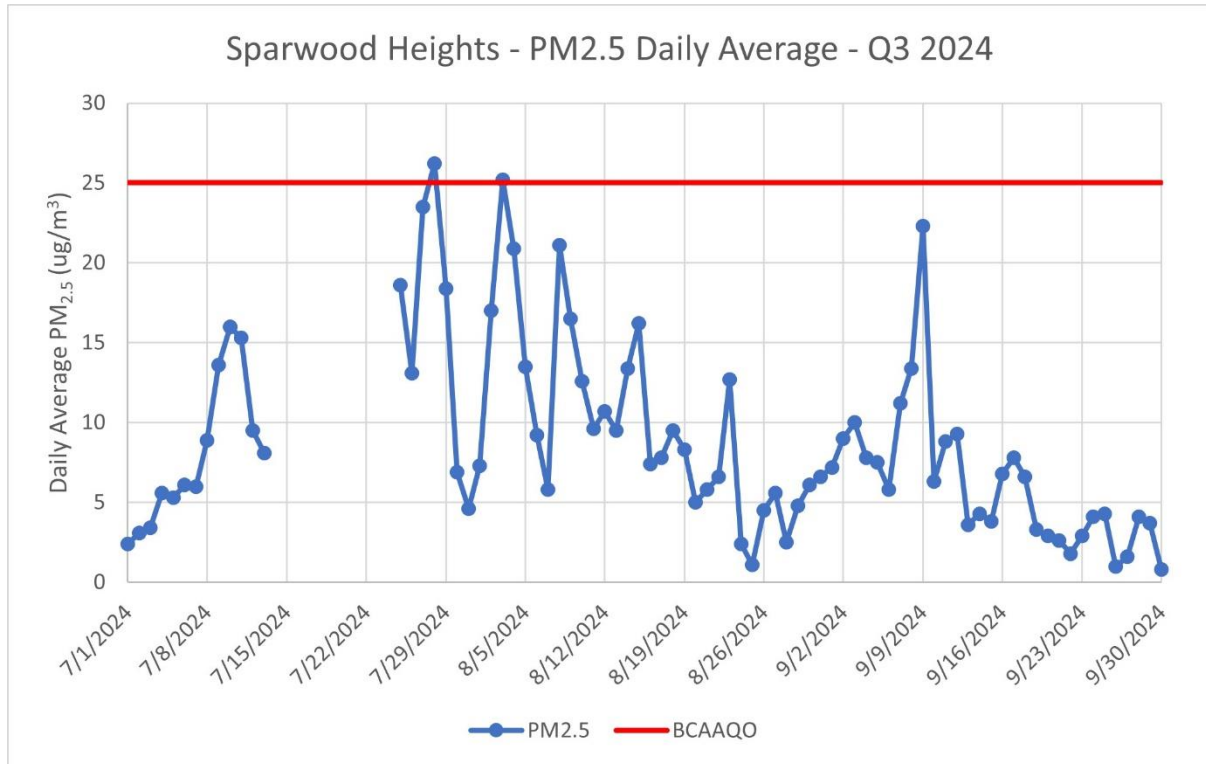
Zero days monitored in Q3 had a daily average above the TSP daily BCAAQO. EVR is committed to managing fugitive dust and continues to execute dust management activities in accordance with site specific Fugitive Dust Management Plans.

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## Sparwood Heights PM<sub>2.5</sub>



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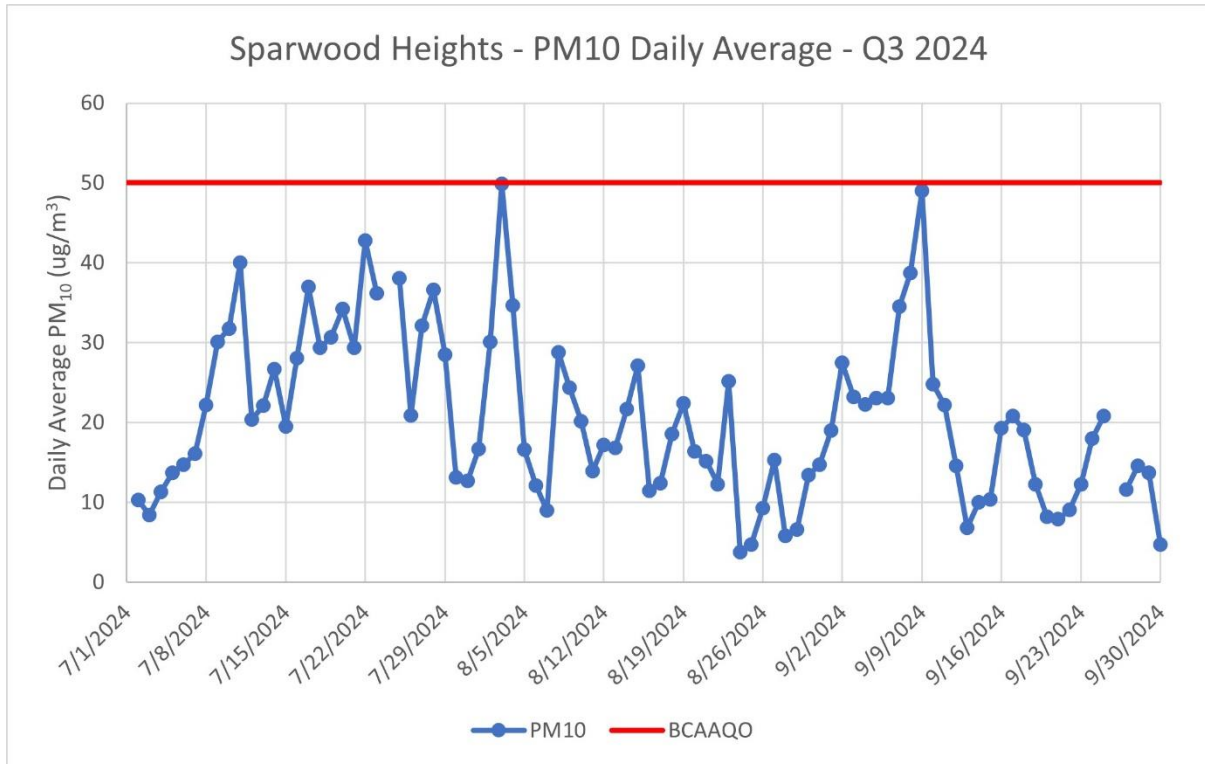
Two percent of days monitored in Q3 had a daily average above the PM<sub>2.5</sub> daily BCAAQO. The high particulate matter levels were investigated using all available data and resources, and results indicate that they were primarily associated with wildfire smoke. Dust generated during mining activity may have also contributed to the elevated particulate matter levels. 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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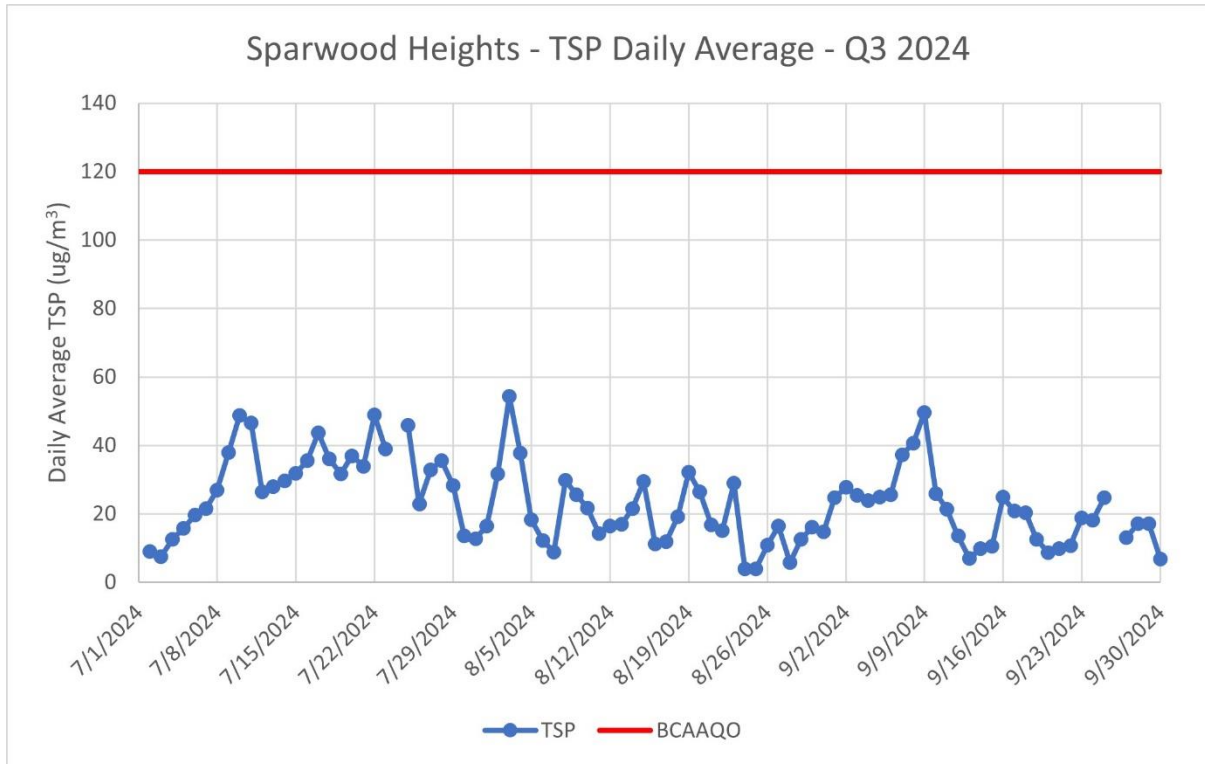
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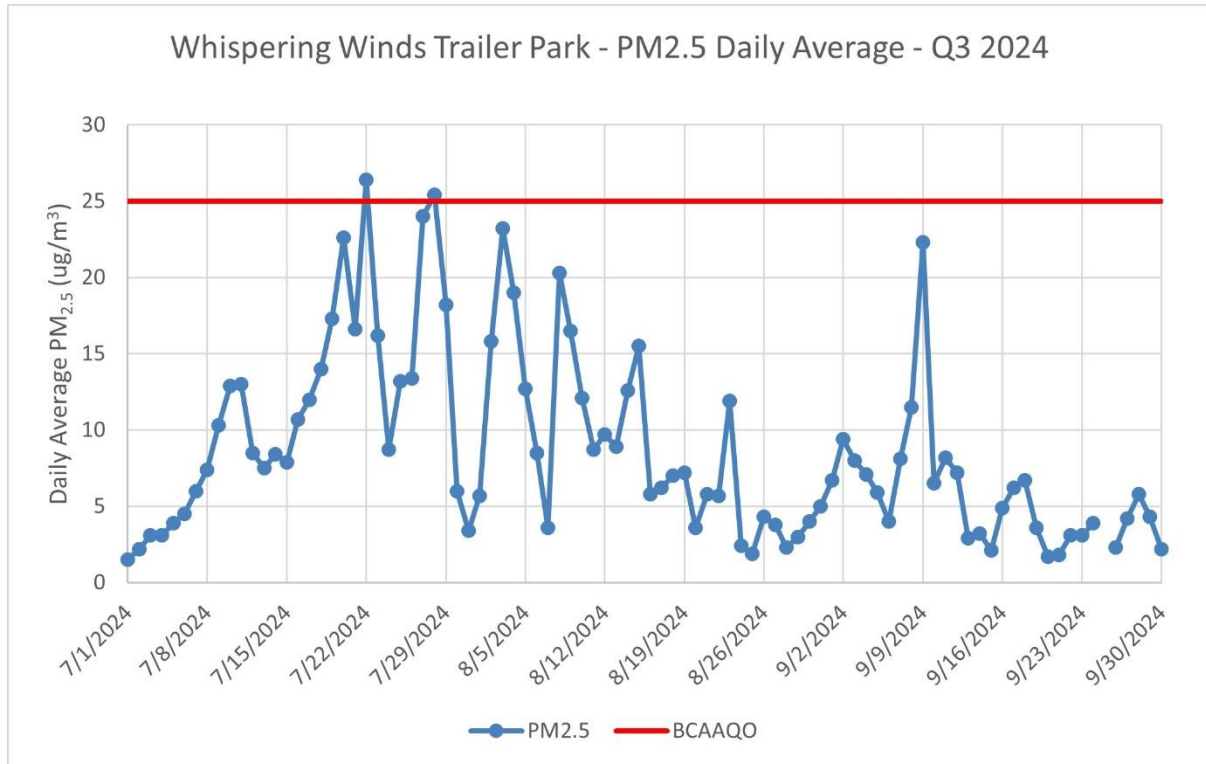
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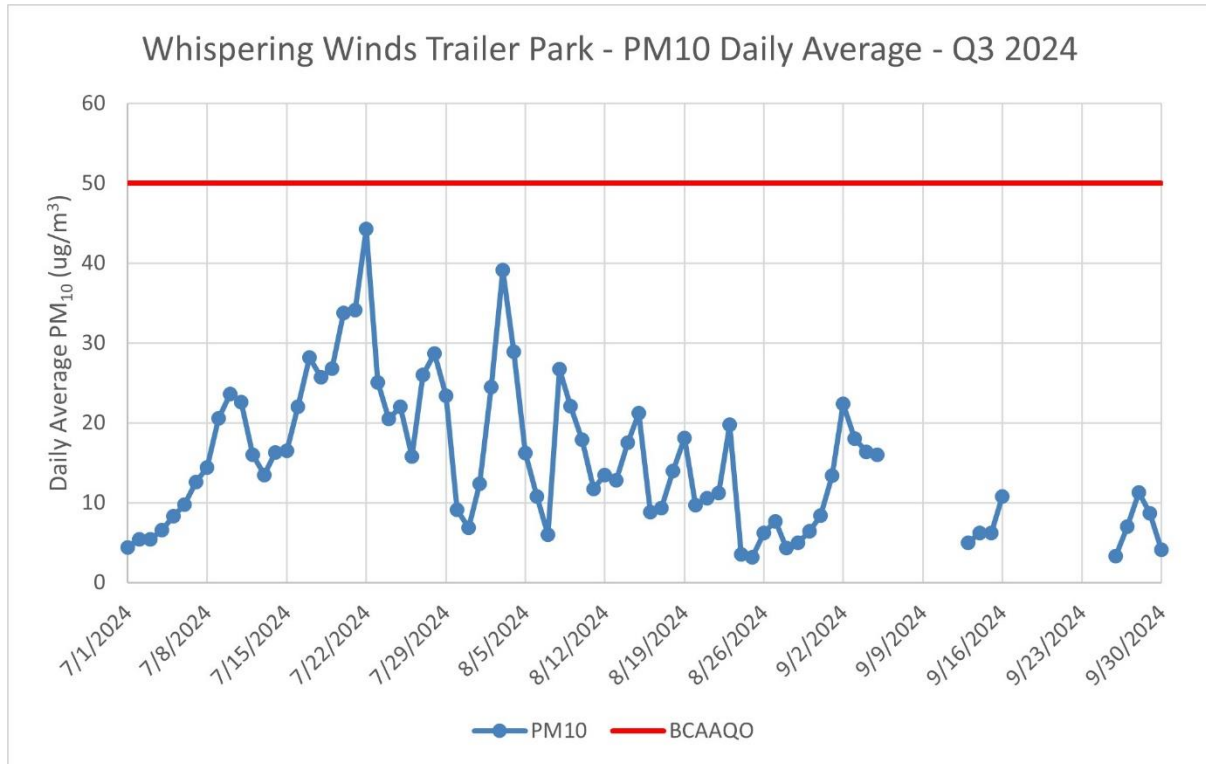
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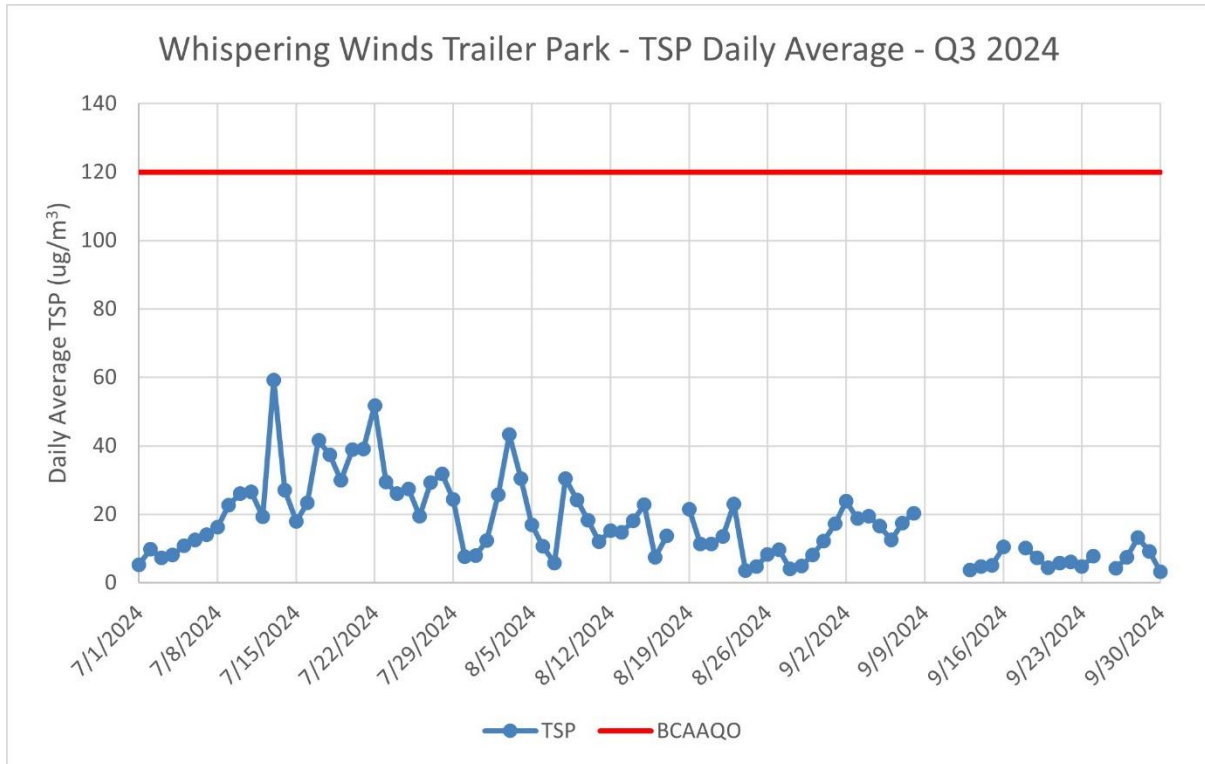
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