

The Clean Air Strategic Alliance (CASA) newsletter will arrive at your inbox three times per year, shortly after each board meeting, and provide a quick update for board members and other interested groups. Comments and suggestions are welcome, so please tell us what you think. Email your feedback to info@awc-casa.ca. Follow us on X (formerly

known as Twitter), LinkedIn, and subscribe to our YouTube channel. We look forward to hearing from you.



In this edition:

- **The Zephyr:** Funding secured for dust management guide work, new work on vehicle tampering kicks off, and a recent ICCT study builds on the findings of the ROVER III work.
- **Whiffs and Puffs:** Fellowes Highlights Indoor Air Quality Solutions for Clean Air This Cold and Flu Season

The Zephyr

Funding secured for dust management guide work

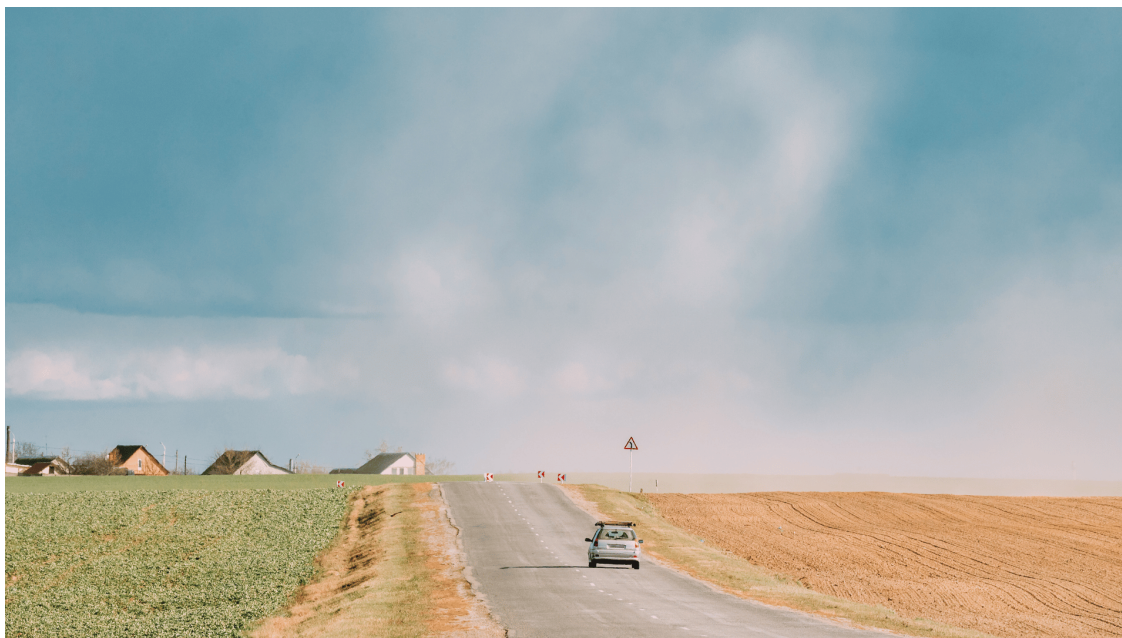
In 2023, the Best Practices Guide for Dust Management in Alberta Project Team prepared a scope of work for a consultant to develop a best practices guide for dust management in Alberta. The project was on hold in 2024 while the team secured funding to hire a consultant to complete some of the project tasks.

The City of Calgary has generously provided \$20,000 in support of the project, which will allow the work to proceed in 2025. Thank you to our partners and supporters at the City of Calgary for your generous contribution!

The guide will be based on the latest and best understanding of dust management options

for major dust and source types found in Alberta. The intent is that the Guide be user-friendly, useful to stakeholders, and include references that allow users to easily access additional information on specific best practices identified. The Guide is also hoped to improve ambient air quality in Alberta with associated human health and environmental protection benefits.

For more information, see [here](#).



New work on understanding vehicle tampering kicks off

CASA's recently completed ROVER III project collected information from the in-use on-road vehicle fleet in Alberta and found that a significant proportion of heavy-duty diesel vehicles measured during the study were emitting 10 or more times the expected level of emissions based on vehicle model year.

The ROVER III work did not include vehicle inspections, and as such the results of the project cannot explain the causes for these excess emissions. The assumption made in ROVER III was that those vehicles have emission control systems that have either been tampered or are malfunctioning as these findings align with other studies on transportation emissions showing these levels of exceedance. There is a need for actions and initiatives to address these excess emissions and a recommendation was made by the ROVER III team for a new project to examine this area further. As such, a working group was established at the September board meeting to scope the issue.

The working group is developing terms of reference and expects to present them to the board for decision in April 2025.

For more information, please contact staff.



A recent ICCT study builds on the findings of the ROVER III work

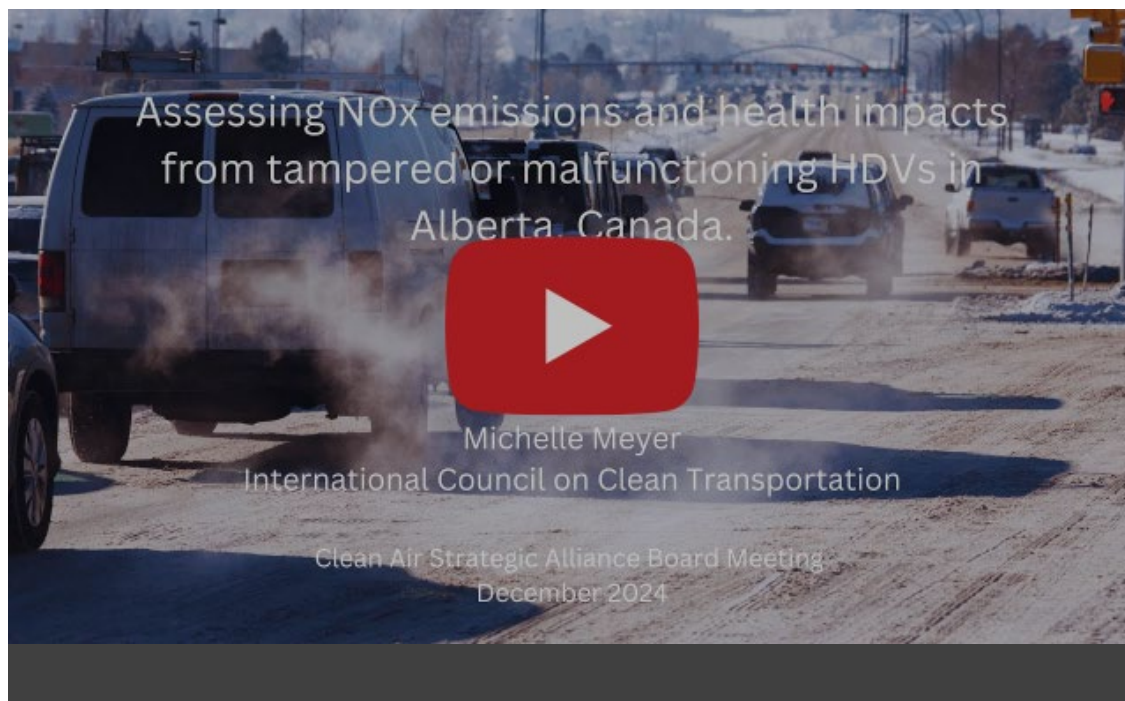
A recent ICCT study builds on the findings of the ROVER III work

In 2022, ICCT published a report estimating the impacts of excess NOx emissions resulting from heavy-duty vehicle (HDV) emission control system tampering in Canada. In 2024, ICCT used the real-world data collected by the ROVER III project team to update their model inputs. ICCT presented their work to the CASA Board at their December meeting.

The study's results include estimated prevalence of tampered or malfunctioning HDVs in Alberta by vehicle model year group, modeled excess NOx emissions from these HDVs, and estimated health impacts using a value of statistical life (VSL) metric through 2035. The rates of tampered or malfunctioning vehicle emission control systems were derived by comparing the Alberta ROVER III data with long-term remote sensing data from Colorado. The health impacts due to the excess NOx were modeled using ICCT's Roadmap and FATE (Fast Assessment of Transportation Emissions) models. Their work highlights the substantial impact of tampered or malfunctioning emission controls on

heavy-duty vehicles in Alberta, which are higher than projected by the 2022 ICCT study. The results offer critical evidence to inform targeted policy recommendations aimed at reducing HDV emissions from vehicles with tampered or malfunctioning emission control systems and support Alberta's efforts to achieve air quality standards and objectives.

ICCT plans to publish the report in late 2024 or early 2025. For more information, please visit ICCT's website [here](#). A recording of the presentation is housed on CASA's YouTube channel [here](#) and below:



Whiffs and Puffs

Fellowes Highlights Indoor Air Quality Solutions for Clean Air This Cold and Flu Season

CASA staff strives to keep in the loop of recent research and happenings in the air quality world. According to Fellowes' 2024 IAQ survey of 1,994 adults across the U.S., Canada, and Europe, 61% of respondents reported having contracted a respiratory illness in the last year. In the U.S. alone, that figure rises to 74%. The most commonly cited sources of infection were workplaces (47%), public buildings such as restaurants and stores (46%), and public transportation (39%).

Flu season, typically from October to April, has become increasingly unpredictable in recent years. According to Flu.com, “in recent flu seasons since the start of the pandemic, flu activity hasn’t always followed expected patterns, so the timing and duration of the flu season has been less predictable.” With flu season becoming more unpredictable, and the CDC expecting the upcoming fall and winter respiratory disease season to likely have a similar number of total hospitalizations compared to last year, it has never been more important to take an active approach to indoor air quality to prevent sickness from spreading year-round.

For more information about this article, see [here](#).



Upcoming Events and Meetings

- Performance Reporting System Workshop - April 23, 2025, Edmonton (TBD)
- Annual Recognition Event - April 23, 2025, Edmonton (TBD)
- Board and AGM - April 24, 2025, Edmonton (TBD)
- Field Tour- September 10, 2025, Calgary (TBD)
- Board Meeting - September 11, 2025, Calgary (TBD)

- Board Meeting - December 11, 2025, Edmonton (TBD)

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