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2022 ANNUAL REPORT



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Chemical Formulas and Names

NO _x	Nitrogen Oxides
PM _{2.5}	Fine Particulate Matter
O ₃	Ozone
NO ₂	Nitrogen Dioxide
SO ₂	Sulphur Dioxide
H ₂ S	Hydrogen Sulfide
TRS	Total Reduced Sulphur
VOCs	Volatile Organic Compounds

Clean Air Strategic Alliance Acronyms

CAAQS	Canadian Ambient Air Quality Standards
CASA	Clean Air Strategic Alliance
EPA	Environment and Protected Areas
GoA	Government of Alberta
IRTAQ	Impacts of Reduced Transportation on Air Quality
ROVER	Roadside Optical Vehicle Emissions Reporter



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ABOUT THE CLEAN AIR STRATEGIC ALLIANCE

The Clean Air Strategic Alliance (CASA) is a partnership composed of representatives selected by industry, government, non-government stakeholders, First Nations, and Métis communities. All members have an interest in air quality. We contribute to strategic air quality planning for Alberta by identifying priority issues and developing action plans that weigh environmental and economic consequences and expected outcomes.

Vision for Clean Air

The air will have no adverse odour, taste, or visual impact and have no measurable short- or long-term adverse effects on people, animals, or the environment.

Vision for CASA

A respected organization that brings expertise and sector knowledge to important provincial air quality management challenges and opportunities in Alberta.

CASA's Mission

The Clean Air Strategic Alliance is a partnership that brings together a diverse group of representatives from industry, government, non-government organizations, First Nations, and Métis communities that are best positioned to assess and provide strategies to improve air quality for Albertans, using a collaborative consensus process.





EXECUTIVE SUMMARY

This annual report summarizes the activities of the Clean Air Strategic Alliance (CASA) in 2022. CASA continued work on several air quality management priorities. The organization's Operational Plan was updated in this year and work kicked off on renewing the strategic plan for 2023 – 2026 period. Following this period of the pandemic, business activities continued to evolve with project teams, working groups, committees, and the board using virtual tools to support either remote or hybrid meeting formats.

In 2022, CASA wrapped up two important projects; Impacts of Reduced Transportation on Air Quality in Alberta Associated with COVID-19 (IRTAQ) and Approaches and Solutions for Canadian Ambient Air Quality Standards (CAAQS) Achievement in Alberta. Draft final reports and supporting documents were approved by the board after many years of hard work and dedication from both project teams.

The Roadside Optical Vehicle Emissions Reporter (ROVER) III successfully wrapped up its data collection by the summer of 2022 and worked with the consultant to finalize a report with key findings. The project team started analyzing the data collected and drafting preliminary management actions.

A working group was established to scope a project to examine dust-related issues in the province and develop a best practices guide for dust management.

CASA relies on the contributions of its members to succeed. In 2022, 42 organizations volunteered on our board of directors and project teams, 2,373 hours which represents \$237,300 in estimated in-kind contributions. Many thanks to Environment and Protected Areas (EPA) for their generous grant to support the CAAQS Achievement Project Team's work.

CASA continues to operate within its approved budget and audited financial statements are available on the website. Staff and board members remain active in their outreach within Alberta and elsewhere, sharing information about CASA its projects, and the consensus-based process. For more information on CASA, and its publications and activities, please visit our website at <https://www.casahome.org>.



PRESIDENT'S MESSAGE

Maintaining an acceptable standard of air quality is imperative to sustaining the environment, economy, and human health. The Clean Air Strategic Alliance (CASA) continues to demonstrate its ability to offer a diverse platform for partners to tackle air quality management issues.

As President, it was fulfilling to see this multi-stakeholder partnership advance work on various topics: public release of the IRTAQ report, wrapping up the CAAQS initiative, continuing work on ROVER III, and starting new work on dust management.

It was imperative to be present at CASA's table as the organization kicked off preliminary discussions on developing a strategic plan for 2023–2026. These valuable discussions will forecast where CASA needs to go in the coming years and align its activities to meet new air quality management challenges and opportunities.

CASA strives to stay current with its members' and partners' activities while searching for consensus at each juncture. At board meetings and often via emails or webinars, valuable updates were shared among sectors about their work and how it relates to advancing CASA's strategic goals.

2022 continued to be another year of transition as we gradually adjusted to work following the pandemic. With staff support, the organization continued to improve hosting remote and hybrid meetings from the project team to executive and board levels.

In my time as president, I appreciated learning about CASA's projects and becoming more familiar with its committed sectors, partners, and staff.

Bev Yee

Bev Yee stepped down as CASA's President in late 2022. We thank Ms. Yee for her dedication and valuable contributions to CASA.



EXECUTIVE DIRECTOR'S MESSAGE

In 2022 as in previous years, CASA kept moving its projects, board activities, communications, and strategic relationships forward. It was reassuring to see our members and staff adjust to a post-pandemic world where meetings are undertaken in a remote, hybrid, or in-person format. With these options, meetings have become more flexible, cost-effective, while retaining valued face to face discussions when required.

It was rewarding to see the public release of the IRTAQ report and its supporting documents this year. One of CASA's priorities was to investigate reduced motor vehicle transportation through the lens of COVID-19. I am hopeful the messaging developed by sectors and partners through this work will spark conversations and create awareness about this topic, but importantly, how Albertans can work together to reduce our environmental footprint and improve air quality. Project activity in 2022 continued with the ROVER III and CAAQS teams making progress, with the latter obtaining board approval of its final deliverables. Additionally, new work on dust management was launched by the board.

Preliminary strategy planning discussions kicked off towards the end of this year. Members agreed to host an in-person workshop to facilitate robust conversations on where CASA needs to be in the next few years, which activities it needs to tackle, and how best to achieve this. I look forward to participating in the strategic planning sessions.

At each board meeting and often via emails or webinars, valuable updates were shared among CASA's sectors on their work and how it relates to progressing the strategic goals of the organization. One important topic discussed was the GoA's efforts to transform Alberta's environmental regulatory system. This sparked some meaningful discussions among members on how this could impact air quality management.

I remain grateful and inspired by the dedication of our volunteers. CASA's board, project teams, and staff have shown remarkable resilience, contributing innumerable hours to accomplish the outcomes shared in this annual report. I anticipate another productive year with everyone.

A stylized, handwritten signature in teal ink, reading "Andre Asselin".

Andre Asselin

BOARD OF DIRECTORS

The following individuals served as members of CASA's Board of Directors as of December 31, 2022. CASA is very grateful for the ongoing commitment and support of these individuals and the organizations they represent.

Industry

SECTOR	DIRECTOR	ALTERNATE
Petroleum Products	Alison Miller	Rob Hoffman
Mining	Rob Beleutz	Brent Korobanik
Oil and Gas – Large Producers	Don McCrimmon	Andria Panidisz
Forestry	Dan Moore	Craig Werner
Alternate Energy	David Lawlor	Mark McGillivray
Chemical Manufacturers	Shane Lamden	Kai Horsfield
Agriculture	Rich Smith	Humphrey Banack
Utilities	Jim Hackett (Vice President)	Ahmed Idriss
Oil and Gas – Small Producers	Vacant	Vacant

Non-Government Organization (NGO)

SECTOR	DIRECTOR	ALTERNATE
NGO Health	Leigh Allard (Vice President)	
NGO Rural	Ann Baran	Randy Angle
NGO Industrial	Ruth Yanor	
NGO Urban	Bill Calder	David Spink
Consumer Transportation	Vacant	Vacant

Government

SECTOR	DIRECTOR	ALTERNATE
Federal Government		Martin Van Olst
Provincial Government – Environment	Bev Yee (President)	Jamie Curran
Local Government – Rural	Amber Link	Vacant
Local Government – Urban	Vacant	Vacant

INDIGENOUS	DIRECTOR	ALTERNATE
Samson Cree Nation	Holly Johnson-Rattlesnake	Vacant
Métis Settlements	Mary Onukem	Vacant

CASA thanks the following directors and alternates, who stepped down in 2022, for their contributions:

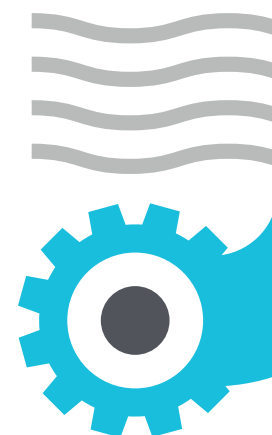
Bev Yee – Government, Provincial Government, Environment

Tom Davis – Government, Provincial Government, Environment

Dan Thillman – Industry, Mining

Andria Panidisz – Industry, Oil and Gas – Large Producers

Greg Moffatt – Industry, Chemical Manufacturers



OUR STAFF AS OF DECEMBER 31, 2022

Executive Director

Andre Asselin

Operations Manager

Anuja Hoddinott

Acting Senior Project Manager

Katie Duffett

Project Managers

Alec Carrigy

Mariem Oloroso

Accountant

Sunny Yeung

We acknowledge the contributions of past project manager Jacqueline Noga.

Project Teams

IRTAQ Project Team

This project team collaboratively developed messaging to link potential changes in air quality with measures to reduce the spread of COVID-19. The intent of this messaging is to generate awareness about the impacts of reduced motor vehicle transportation on air quality, and how governments, businesses, and other Albertans can improve it.

The project resulted in four recommendations which focus on the delivery and uptake of the project's key messages. The final materials were publicly released in 2022 and are available on CASA's website.

CAAQS Achievement Project Team

In September 2020, CASA approved a project charter for work related to managing NO_x emissions to prevent possible CAAQS exceedances in Alberta. The project's objective was to identify potential options to reduce NO_x emissions and ambient NO₂ concentrations in Alberta, as well as gather stakeholder perspectives on those potential options.

The project developed:

1. Two background documents that outline the national and provincial systems used manage air emissions and summarize Alberta's NO_x emission sources.
2. A webinar series with 8 information sessions on a range of topics related to the NO₂ CAAQS issue
3. A list of 53 options to reduce NO₂ emissions
4. Project team sector perspectives on the options and next steps for CAAQS achievement

This project wrapped up at the end of 2022 and the final deliverables are available on the CASA website.





ROVER III Project Team

The board had initiated a third phase of the ROVER project in 2017 to measure in-use vehicle emissions using remote sensing technology. Following this, the project team identified and finalized study sites and gathered municipal and provincial permits for field work, but several delays to its field data collection were encountered because of the extended pandemic.

In 2022, COVID-19 restrictions were lifted, and the border was re-opened allowing contractor OPUS to enter Canada for data collection. The field season was successfully completed by the end of summer 2022 with OPUS finalizing its report shortly after. The project team spent the rest of the year analyzing the data collected and drafting preliminary management actions.

This work is anticipated to be completed in 2023.

Best Practices Guide for Dust Management in Alberta

A working group was established to scope a project to develop a best practices guide for dust management in the province. The project will provide guidance information that will enable Albertans to reduce and mitigate particulate matter emissions from anthropogenic non-point sources to help improve local air quality management in Alberta and support regional CAAQS achievement.

The project team began their work in early 2023.



CASA Participating Organizations

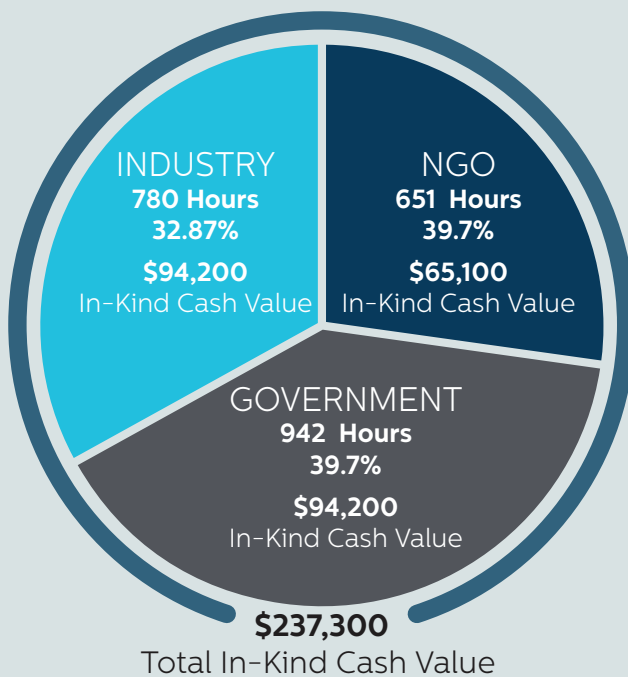
CASA could not operate without the help of the many organizations that participate on the board and project teams. CASA is very grateful to these organizations for providing financial and in-kind contributions of time and expertise.

Alberta Agriculture and Irrigation	Canadian Fuels Association	North West Refining
Alberta Airsheds Council	Canfor Corporation	NOVA Chemicals Corporation
Alberta Beef Producers	Capital Power Corporation	Prairie Acid Rain Coalition
Alberta Capital Airshed	Chemistry Industry Association of Canada	Repsol Oil & Gas Canada
Alberta Energy Regulator	City of Calgary	Rural Municipalities of Alberta
Alberta Environmental Network	ENMAX Corporation	Samson Cree Nation
Alberta Forest Products Association	Environment and Climate Change Canada	Simon Fraser University
Alberta Lung Association	Environment and Protected Areas	Southern Alberta Group for the Environment
Alberta Motor Transportation Association	Fort McKay Metis Nation	University of Alberta
Alberta Newsprint Company	Graymont	West Central Airshed Society
Alberta Sand and Gravel Association	Health Canada	Wood Buffalo Environmental Association
Alberta Transportation and Economic Corridors	Heartland Generation Ltd.	
Alberta-Pacific Forest Industries Inc.	Imperial Oil Ltd.	
Calgary Region Airshed Zone	International Council on Clean	
Canadian Association of Petroleum Producers	Mewassin Community Council	
Canadian Forest Products Limited	Natural Resources Conservation Board	
	North West Redwater Partnership	

Cash and In-Kind Contributions

In-kind support is a cornerstone of CASA's ability to address complex air management issues and is extremely valuable in completing its work. Industry, governments, and non-government organizations have all provided such support. CASA has tried to assign a dollar value to this support but can confidently say that the true value of these contributions is both under-recorded and underestimated. The total in-kind contributions for 2022 amounted to 2,373 hours which represents about \$237,300 in donated time. The Government of Alberta also generously provided office space as an in-kind contribution in 2022. The chart below shows the in-kind cash equivalent contributions from the three broad sector groups.

Cash contributions are also critical to the success of the organization. CASA gratefully acknowledges Environment and Protected Areas for providing a generous grant which covers core operating expenses as well as a grant for supporting the Canadian Ambient Air Quality Objectives Achievement Project Team.



Alberta Airsheds Council and Alberta Airsheds

CASA would like to recognize our mutually beneficial working relationship with the Alberta Airsheds Council (AAC) and its members, Alberta's 10 Airsheds. The primary role of the Airsheds is the monitoring, assessing, and reporting of ambient air quality, and together they manage most of the air monitoring in Alberta. Airsheds are also actively involved in education and community outreach, helping to raise awareness and understanding of the benefits of good air quality; they often support initiatives that address local air quality issues. While the AAC and CASA are not formally affiliated, Airshed representatives often contribute valuable knowledge and expertise to CASA's project teams, and their partnership and in-kind support is greatly appreciated.

Notably, the AAC releases an annual Air Quality Report to provide a summary of the air quality data monitored and collected in the province by Alberta's Airsheds. They are a valuable resource and available at <https://www.albertairshedsCouncil.ca/air-quality-reports>

For more information about the AAC, visit www.albertairshedsCouncil.ca







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November 17, 2023

Dear Airshed colleagues,

I am pleased to provide you with the Clean Air Strategic Alliance's (CASA) 2022 Annual Report. Since its inception in 1994, CASA has operated as a consensus-based, multi-stakeholder partnership that brings together governments, non-government organizations, and industry to support air quality management system in Alberta. I am pleased to share with you the highlights of 2022:

Project Team Activity:

- **Canadian Ambient Air Quality Standards**

This initiative was launched in 2020 to promote stakeholder awareness of, and gather sector views on, the NO₂ CAAQS and NO₂ air quality issues in Alberta. A background document providing an overview of NO₂ CAAQS, as well as O₃ and PM_{2.5} CAAQS implementation in Alberta was completed, eight informative webinars were held, and the [team's final report](#) was approved by the board and publicly released in 2022.

- **Impacts of Reduced Transportation on Air Quality in Alberta Associated with COVID-19**

This project kicked off in 2022 and developed messaging that links changes in air quality with measures undertaken to reduce the spread of COVID-19. The messaging seeks to generate awareness of the impacts that reduced motor vehicle transportation can have on air quality, and how governments, businesses, and other Albertans can act to improve air quality. This work wrapped up and was publicly released in 2022. See this team's webpage [here](#).

- **Roadside Optical Vehicle Emissions Reporter) III**

In 2022, this team successfully wrapped up its data collection and worked with the consultant to finalize a report with key findings. The project team started analyzing the

data collected and drafting preliminary management actions. Their work is anticipated to wrap up in 2024.

- **Best Practices Guide for Dust Management in Alberta**

In 2022, a working group was established to scope a project to examine dust-related issues in the province and develop a best practice guide for dust management.

CASA would not be successful without the support of its member organizations, board, and project team members. In 2022, multiple personnel from several organizations directly participated in CASA initiatives, contributing valuable time, skills, and expertise. The estimated cash value cannot be adequately captured; however, a low estimate of these in-kind contributions is roughly valued at \$237,300. Your ongoing support is appreciated!

I invite you to review the report and to learn more about CASA's work and our vision of clean air for all Albertans. Please visit our website (www.casahome.org) for more information.

Sincerely,



Andre Asselin
Executive Director