



We Are Problem Solvers

The Saskatchewan Research Council (SRC) is Canada's second largest research and technology organization.



NEARLY **300** EMPLOYEES



\$137 MILLION IN ANNUAL REVENUE



74 YEARS OF RD&D EXPERIENCE



1,500 CLIENTS IN **27** COUNTRIES

Corporate Capacity

Our multi-disciplinary team of experts encompass a broad range of science and engineering specialties. It is through integrating these diverse areas of expertise that we can provide some of the best sustainable environmental solutions to resource industries.

SRC is focusing its efforts on the mining, minerals and energy sectors, and the environmental considerations that are important across each.

Environment

SRC's Environment and Biotech Division provides air and climate monitoring and assessment, environmental site remediation management and oversight, consulting and environmental analytical services. We assist clients in industry, government and communities with the environmental side of sustainable development.

Energy

SRC's Energy Division provides applied research and development to oil and gas producers and pipeline operators. This includes innovative enhanced oil recovery technologies, from heavy to light and tight oil. We also work on partial upgrading and catalyst testing technologies and develop solutions for the hydrocarbon industry.

Mining and Minerals

From exploration to remediation planning, SRC's Mining and Minerals Division provides exploration support, process development, tailings transportation and analytical services to the mining and mineral industries worldwide. We work on multi-phase flow, process testing and demonstration, and pipeline design and development for the mineral and petroleum industries.

SRC's Rare Earth Element Division supports a growing rare earth element (REE) industry in Saskatchewan, Canada and around the world with processing and separation technology development and commercialization for both heavy and light REEs, helping clients have the potential to maximize the value of their rare earth projects.

Agriculture and Biotechnology

SRC enables and accelerates biotechnology innovation across the core resource sectors of mining, industry and agriculture. We deliver a broad portfolio of services to support a sustainable agriculture industry in Canada.

Safety: An Overriding Priority at SRC

SRC has a reputation for world-class safety performance. Our proactive Occupational Health and Safety committee is the backbone of safety throughout all levels of the organization. Strong leadership and managerial commitment foster a culture of safety, as 100 per cent of SRC employees are represented through committees. For the past decade, our lost-time injury (LTI) rate has trended downwards.

Values

Integrity: We deal with people and organizations honestly and ethically.

Respect: We treat people, property and the environment with respect.

Quality: We deliver quality to clients and colleagues.

One Team: We work together in the best interests of SRC.

Quality

SRC is an internationally recognized and valued science solutions provider delivering unparalleled service to clients and colleagues in the areas of applied research, development, demonstration, testing and technology commercialization.

Exceptional quality and client service are central to our culture, value proposition, and future success. We will comply with all applicable statutory and regulatory requirements while adhering to a comprehensive, coordinated quality management system that meets or exceeds the requirements of ISO 9001.

We regularly set, communicate, and review measurable quality objectives that ensure continuous improvement of this management system and superior client satisfaction.

OUR IMPACTS

Here are some highlights from SRC's 2020-21 economic impact assessment:



42-TIMES RETURN ON PROVINCIAL INVESTMENT



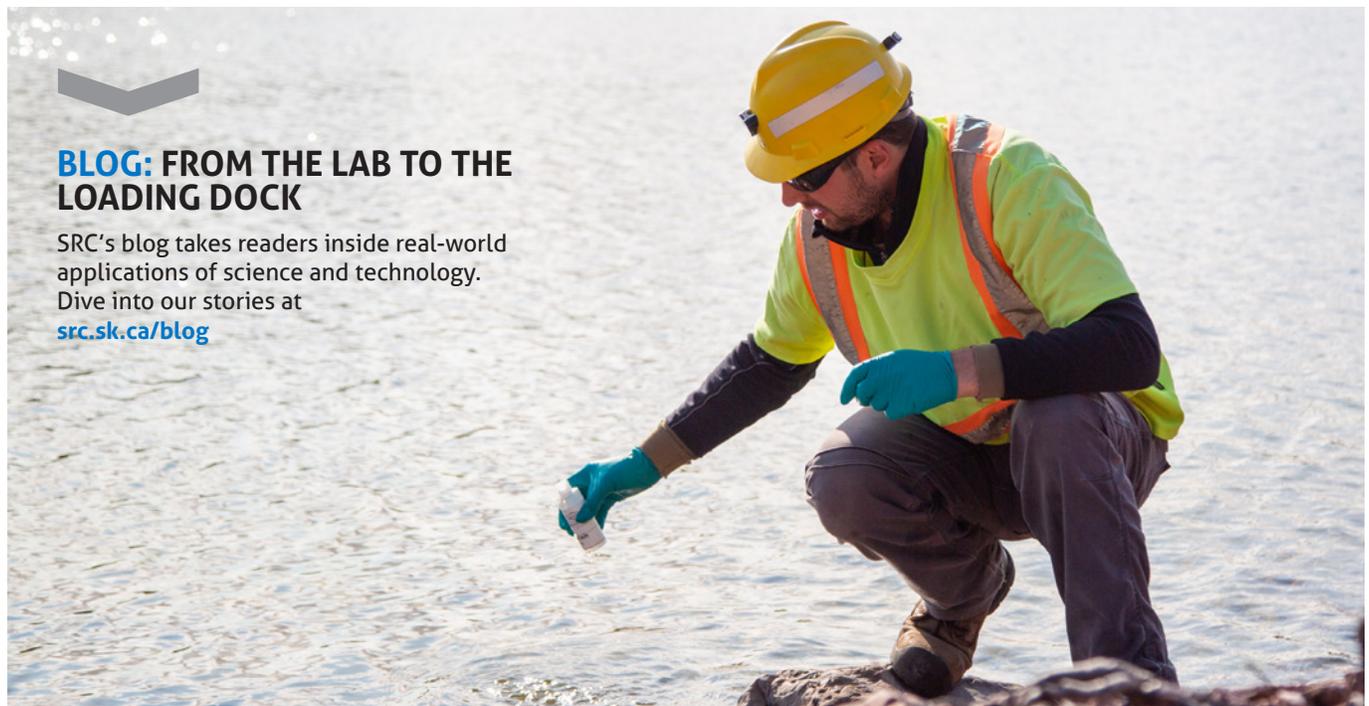
\$460 MILLION VALUE OF JOBS THAT WERE CREATED OR MAINTAINED



\$11.8 BILLION IN IMPACTS SINCE 2003



TOTAL IMPACTS ON PROVINCIAL ECONOMY: \$1.3 BILLION



BLOG: FROM THE LAB TO THE LOADING DOCK

SRC's blog takes readers inside real-world applications of science and technology. Dive into our stories at src.sk.ca/blog



Environmental Services

The Saskatchewan Research Council (SRC) develops and provides sustainable solutions to environmental challenges faced by a variety of industries. We analyze, monitor, measure and provide reporting on your environmental performance to help you reduce your environmental impacts.

SRC Environmental Analytical Laboratories has a long history of providing environmental analyses to local and international projects. We help companies and engineering consultants build successful and sustainable projects that minimize environmental impacts. SRC Environmental Analytical Laboratories provides a wide range of environmental analyses with advanced instrumentation and top environmental experts.

We put customer satisfaction at the forefront of our services. We are committed to continuously improving our services in order to provide the most effective solutions in response to client feedback.

Building on our core expertise, SRC Environmental Analytical Laboratories provides the following packages for industry:

Lab services for remediation

- Soil analysis
- Landfill criteria
- Water characterization

Operational services

- Water analysis
- Source water
- Groundwater

Air quality

- Gas composition
- VOCs
- H₂S

Waste disposal services

- NORM Analysis
- Dean Stark
- Particle size
- Organic Halides (TOX, EOX)

The highly experienced chemists and technologists at SRC Environmental Analytical Laboratories can recommend an optimum analytical package for your samples. We make sure our clients get the best results for their testing.

SRC Environmental Analytical Laboratories is located at Innovation Place in Saskatoon, SK and uses state-of-the-art instrumentation, equipment and data management systems. The laboratory has performed soil, water and air analyses on a wide variety of sample types. The laboratory maintains ISO 17025 accreditation for these tests with the Canadian Association for Laboratory Accreditation (CALA).

We use an integrated Laboratory Information Management System (SRC LIMS™) to coordinate and document the entire sample testing process. Reports can be customized to meet client requirements.

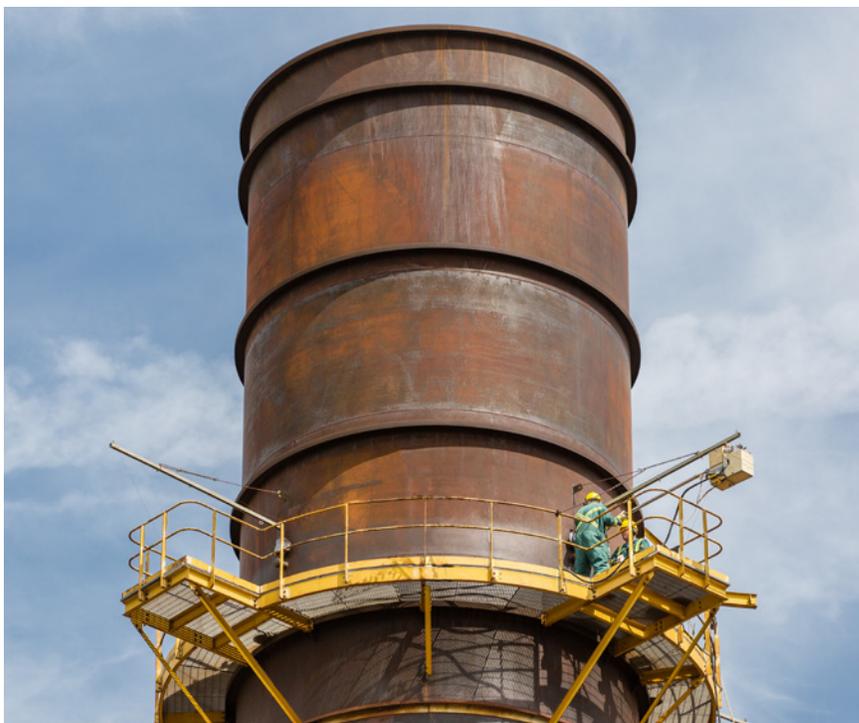
SRC LIMS™ provides many additional features that clients value, such as the ability to quickly retrieve analytical data, track sample status and location in the laboratory and even, if desired, to view results via an online portal.

SRC Environmental Analytical Laboratories works in conjunction with SRC's Environmental Remediation and Environmental Performance and Forestry teams to provide a wide range of services that enhance the long-term environmental and economic benefits of our clients' work.

Environmental Remediation Services

SRC has scientific, technical and management expertise in environmental remediation, as well as experience working with regulators, communities, Indigenous groups and industry.

- Environmental site assessment and remediation
- Ecological risk assessment and the environmental transport of radionuclides, heavy metals, mercury and organic contaminants
- Groundwater and surface water quality assessment
- Revegetation



Air Quality Services

SRC offers a variety of services to help our clients confirm regulatory compliance, as well as to understand and improve their environmental performance.

- Industrial Source Testing
- Dispersion Modelling
- Ambient Air
- Industrial Hygiene

SRC has a versatile Mobile Air Quality Trailer, capable of measuring both ambient and source emissions. It can be operated for short testing campaigns (manned) or long-term monitoring (remotely monitored).

New Initiative Aims to Grow Saskatchewan Helium Sector

saskatchewan.ca/government/news-and-media/2022/march/17/new-initiative-aims-to-grow-saskatchewan-helium-sector

Released on March 17, 2022

Helium Liquefaction Hub Study Will Accelerate Provincial Development of Helium Export Infrastructure

The Government of Saskatchewan, in partnership with the Saskatchewan Research Council (SRC), is accelerating the development of helium processing and liquefaction hubs in the province.

The Ministry of Energy and Resources (ER) will support the SRC with a grant of \$140,000 to complete a Helium Liquefaction Hub Study, which will incorporate technical and economic components and provide the critical information needed to develop a commercial scale, value-added, export-oriented helium sector in Saskatchewan.

"We are already home to Canada's largest purification facility, near Battle Creek, and liquefaction is the crucial, next step, as we aim to supply ten per cent of global helium market share by 2030," Energy and Resources Minister Bronwyn Eyre said. "Only liquid helium can be exported overseas and as many end-users require liquid helium, a provincial liquefaction facility will improve both the marketability and pricing for Saskatchewan's significant helium resources."



Saskatchewan has high helium concentrations and some of the most attractive geology in the world for low-emission helium production. Helium is a highly desirable commodity with no substitute and is used in medical research and diagnostics, semiconductor manufacturing,

space exploration, fibre optics, nuclear power generation and other advanced technology sectors.

The ER grant will play a key role in achieving the targets laid out in *Saskatchewan's Helium Action Plan: From Exploration to Exports*, expected to produce significant economic benefits for the province, including 15 new helium purification and liquefaction facilities, 500 new permanent jobs and annual helium exports worth more than \$500 million.

The Hub Study will bring together helium stakeholders and help provide companies with the information they need to make major investment decisions, including around establishing Saskatchewan as a regional helium liquefaction hub in Western Canada and surrounding U.S. states. The study will also include helium supply volume forecasts from Saskatchewan, neighbouring provinces and states under different market scenarios and a ranking of specific site locations.

Currently, helium is produced and purified in Saskatchewan, but must be sent to the United States for commercial scale liquefaction. Provincial liquefaction will also ensure that end-users in Canada have reliable access to liquid helium for critical equipment such as medical resonance imaging (MRI) machines.

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Saskatchewan Launches Sustainable Energy Initiatives

 saskatchewan.ca/government/news-and-media/2022/march/14/saskatchewan-launches-sustainable-energy-initiatives

Released on March 14, 2022

Win-win for Economy and Methane Reduction

The Government of Saskatchewan is continuing to support responsible energy production with two initiatives that enhance Saskatchewan-specific data and ensure the province remains one of the most sustainable energy producers in the world.

The Saskatchewan Emissions Inventory will further expand methane modelling and measurement in the province, while the Gas Commercialization Mapping (GCM) Service will highlight methane-concentrated areas and allow the energy sector to better plan and collaborate on scaled methane capture and commercialization projects, including with Crown utilities.

"These two initiatives will support Saskatchewan's already strong record on methane, which includes a reduction in emissions by 50 per cent five years ahead of schedule," Energy and Resources Minister Bronwyn Eyre said. "We continue to ask the federal government to share its emissions data, which is gathered from other jurisdictions, such as Alberta or Texas, and broadly applied to Saskatchewan. These two provincial initiatives will help mitigate the negative impacts of these inaccurate representations."

The Ministry of Energy and Resources (ER) will apply acquired data to generate a point-in-time database of Saskatchewan emissions information, a list of the larger sources of emissions to assist in determining economic options for emission reduction, a foundation for future, detailed emissions reporting, scenarios for zero-flaring infrastructure scenarios, and data on select industry equipment.

The Saskatchewan Research Council (SRC), through a \$350,000 grant provided by ER, will begin this spring to compile information for the emissions inventory, which ER will use internally to help confirm and inform current and future emissions reductions from the upstream oil and gas sector.

The GCM Service, which will provide critical geographic information to assist in the development of methane capture and commercialization projects, will be able to generate customized maps of vented and flared methane gas volumes, as well as a table of licensees within a specified geographic area. This initiative fulfills commitments under the Saskatchewan Methane Action Plan (MAP), namely, providing geographic information of regions in the province where volumes of methane gas venting and flaring occur and assisting stakeholders to develop methane capture and commercialization projects within joint planning areas.

The GCM Service can be accessed here at saskatchewan.ca/gas-commercialization-mapping.

MAP is an ambitious, made-in-Saskatchewan program, which includes *The Oil and Gas Emissions Management Regulations (OGEMR)* and achieved federal equivalency in 2020. It includes an outcome-based regulatory regime to reduce greenhouse gas emissions from flaring and venting in the upstream oil and gas industry by 40 to 45 per cent from 2015 levels by 2025, the equivalent of 4.5 million tonnes of carbon dioxide annually.

In October 2021, the federal government announced a plan to further reduce oil and gas methane emissions by at least 75 per cent below 2012 levels by 2030.

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Saskatchewan Announces Support for New Gas Measurement and Monitoring Technology

 saskatchewan.ca/government/news-and-media/2021/march/15/saskatchewan-announces-support-for-new-gas-measurement-and-monitoring-technology

Released on March 15, 2021

Important Investment in Public Science

Today, the Government of Saskatchewan announced \$500,000 to support innovative research and technology applied to measuring gas volumes and monitoring emissions in the oil and gas sector. This builds on work under the provincial Methane Action Plan (MAP) and the methane equivalency agreement signed with the federal government in September, 2020.

"This applied research, which will be overseen by the internationally-respected Saskatchewan Research Council (SRC), is an important investment in public science," Energy and Resources Minister Bronwyn Eyre said. "We are concerned that the federal government is relying on methane data from studies that were not actually carried out in Saskatchewan, which has unique reservoir and geological characteristics. This research will be Saskatchewan-specific."

Eyre has asked federal Ministers Jonathan Wilkinson and Seamus O'Regan to share federal methane data with Saskatchewan.

"Unfortunately, only limited data has been provided to us," Eyre said. "Surely, if assessments are going to be made about provincial methane emissions, we should be able to access and analyze un-exaggerated, reliable data that is fully transparent and shared."

With the gas measurement and monitoring funding announced today, \$300,000 will be applied to research into cost-effective technology for measurement of associated gas volumes from heavy oil wells. This is a joint research and development project with Alberta.

The SRC will also receive \$200,000 to support applied research related to innovative data transmission, analysis and emission-monitoring technology in collaboration with SaskTel and private Saskatchewan oil and gas operators.

"We will work collaboratively with stakeholders to measure gas volumes from wells on the prairies," SRC President and CEO Mike Crabtree said. "Measurement and monitoring will be key areas of focus in order to meet methane emission reduction targets in Saskatchewan."

Saskatchewan has in place world-leading regulations and data collection processes around methane measurement and reporting. Since 2017, the Saskatchewan Ministry of Energy and Resources has invested almost \$3 million in further enhancing regulation, including more staff, inspections, audit powers and penalty provisions.

MAP is an ambitious, made-in-Saskatchewan plan, which includes an outcome-based regulatory regime that will reduce GHG emissions from flaring and venting in the upstream oil and gas industry by 40 to 45 per cent from 2015 levels by 2025, the equivalent of 4.5 million tonnes of carbon dioxide annually.

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