BOROUGE INTERNATIONAL

SiteLine

JOFFRE SITE COMMUNITY NEWS

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Published for the Central Alberta community by Borouge International

Special Edition: Annual Environment Review

We actively promote environmentally responsible practices and the responsible management of our operational impacts to air, water, land, and biodiversity — all key components of our Joffre Site Environmental Program outlined in this edition of *SiteLine*.

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NOVA Chemicals®

BOROUGE INTERNATIONAL

NOVA Chemicals, Borouge, and Borealis are now Borouge International.

Learn more on page 2.

Welcome to the Summer 2026 edition of *SiteLine*!

In March, we announced that NOVA Chemicals Corporation was acquired by Borouge Group International AG (Borouge International). This new global polyolefins leader brings together Borouge Plc of the United Arab Emirates, Borealis GmbH of Austria, and NOVA Chemicals operating under the brand name Borouge International. We are excited to play an important role in bringing these three regionally strong, operationally distinct businesses together.

As we begin this new chapter, we're also reflecting on our deep roots in Central Alberta. From our start as the neighbourhood ethylene plant on the prairie 50 years ago, we are proud that we've grown into a global polyolefins leader as part of Borouge International.

While our new company is global, the Joffre Site remains committed to our local community. Our local leadership team continues to be accountable for safe and reliable site operations. We remain fully committed to ongoing community engagement with our neighbours and maintaining our community support as Borouge International.

So far this year I have had the opportunity to attend several events in our community. In late April we hosted our Spring Community Open House, which was our first chance to share about Borouge International — thanks to everyone who joined us! In early May I joined my colleagues for the Steps for Life walk to support those impacted by workplace injury, illness or tragedy. I really enjoyed my second year at the 4-H Beef Sale last month, I am always blown away by the dedication and professionalism of these young entrepreneurs! It is also great to see the community support at this annual event.

On the business side of things, we just wrapped up a successful turnaround on our Ethylene One unit, our original ethylene plant that was commissioned in 1979. The turnaround saw an additional 1,200 contractors on the Joffre Site, helping us execute a safe shutdown to perform scheduled maintenance, inspections, cleaning, and repairs to ensure safe and reliable operations. We greatly appreciate your patience as we recognize the increased traffic in the area can impact our near-neighbours — thank you!

I hope you enjoy this edition of our annual Environmental *SiteLine* newsletter. The Joffre Site maintains our commitment to advance safety, environmental stewardship, and responsible operations guided by Responsible Care® principles — protecting people, communities, and the environment.

Rob Thompson,
SVP, Regional Head Operations — Americas

BOROUGE INTERNATIONAL

Essential materials, advancing the world.

Borouge International: A global polyolefins leader operating at scale

At a glance:

- Formed through the combination of NOVA Chemicals, Borouge, and Borealis
- A global leader in polyolefins
- Headquartered in Vienna, Austria with regional HQ in Abu Dhabi and a strong footprint across Europe, the Middle East, and North America
- Manufacturing, Research and Development (R&D), and application centres across the Middle East, Europe, North America, and Asia
- Backed by long-term shareholders XRG (ADNOC's international investment arm) and OMV

What we do:

- Develop and manufacture high-performance polyolefin materials
- Serve critical end markets: consumer products, infrastructure, energy, mobility, advanced products
- Support customers through technical, R&D, and application expertise

Scale and operations:

- More than 10,000 employees globally
- 16,500 patents across the combined portfolio
- Global manufacturing and supply footprint serving customers across multiple regions

Leadership:

- Roger Kearns, CEO (NOVA Chemicals)
- Dr. Hasan Karam, COO (Borouge)
- Dr. Stefan Doboczky, CCO (Borealis)
- Patrick Jany, CFO

To learn more visit borougeinternational.com

Central Alberta Trades Strategy

A new Central Alberta Trades Strategy (CATS) sets out a bold, coordinated plan to transform how trades training is delivered, accessed, and supported across the region over the next five years.

Developed through extensive cross sector collaboration led by Red Deer Polytechnic and Rob Thompson, Vice President Manufacturing West, the strategy brings together educators, employers, workforce organizations, and community partners to respond to growing demand for skilled trades professionals — while addressing long standing barriers facing learners and employers alike.

The Central Alberta Trades Strategy outlines seven interdependent initiatives designed to modernize trades education and strengthen workforce alignment across the region. Together, these initiatives aim to improve access, flexibility, coordination, and the long term sustainability of trades training.

"Central Alberta is at the centre of Alberta's economic transformation, with growing demand for skilled trades across construction, manufacturing, energy, transportation, agriculture, and services," **says Lindsay Engel, Vice President, Academic and Student Experience at Red Deer Polytechnic**. "While Alberta's trades model leads Canada in training, there are still issues surrounding access, pathways, learner completion, and employer access. This strategy speaks to both the urgency of these challenges and the opportunity ahead. By working together across sectors, Central Alberta can lead the way in innovative, accessible, and regionally responsive trades training."

From an industry perspective, the challenge is immediate. "Industrial operations depend on highly skilled, technically proficient tradespeople," **says Rob Thompson**. "This approach strengthens the pipeline of job ready workers for years to come by expanding the labour pool, inspiring young learners, engaging underrepresented groups, and improving completion and retention rates. We look forward to implementing the Central Alberta Trades Strategy as a way to strengthen our industry and create opportunities that ensure a strong trades workforce and a healthy Central Alberta economy."

Visit rdpolytech.ca/CATS to learn more.

Monitoring Our Impact on Water Resources

Water is a valuable resource and a critical part of our manufacturing processes at our Joffre manufacturing facility.

As an industry leader and founding member of Responsible Care®, Borouge International (NOVA Chemicals) takes great care in ensuring the responsible treatment, reuse and return of water to the Red Deer River.

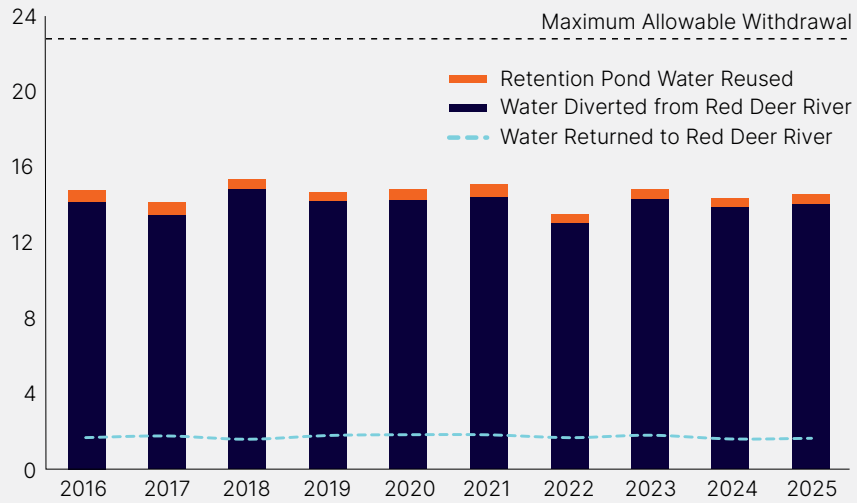
The Red Deer River has an annual flow of roughly two billion cubic metres (m^3). We have water licences for approximately 23 million m^3 per year, which is just over 1% of the annual flow in the river.

In 2025, we **withdrew 14.0 million m^3** or 61% of our allotment from the Red Deer River. We also **collected and used 0.47 million m^3** from surface runoff.

Most of the water used in our manufacturing facilities is returned to the environment through evaporation in cooling tower plumes. The amount of water vapour released back to the ecosystem is about 80% of our intake. Water returned to the river goes through extensive testing to meet regulatory requirements and strict environmental standards.

Joffre Site Water Usage

(million m^3 of water)



This graph shows our water use at the Joffre Site for NOVA Chemicals and Cogen. Generally, the greater the production rate, the greater our water use. Water use also fluctuates with other site activities such as turnarounds and weather conditions.

Ensuring Air Emissions Meet Alberta Ambient Air Quality Objectives

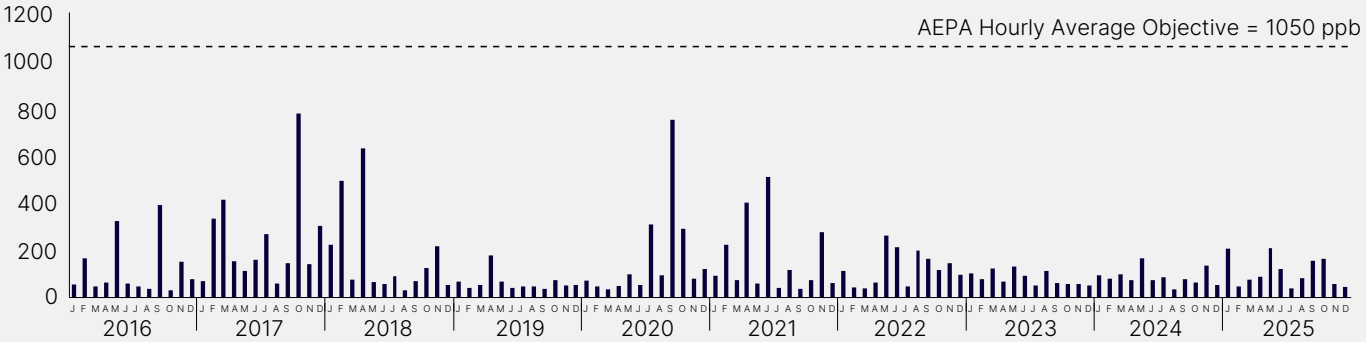
Through the Joffre Site Air Emissions Management Program we strive to reduce emissions, monitor impacts and continuously review our performance.

We remain focused on ensuring air emissions are below all regulatory compliance limits and air quality objectives set by Alberta Environment and Protected Areas (AEPA).

We interface with regional groups such as the Parkland Airshed Management Zone (PAMZ). Data related to a variety of air quality parameters, as shown in the graphs below and on page 4, indicates our concentrations are consistently below established objectives.

Ambient Air Ethylene 1-Hour Maximum Concentrations

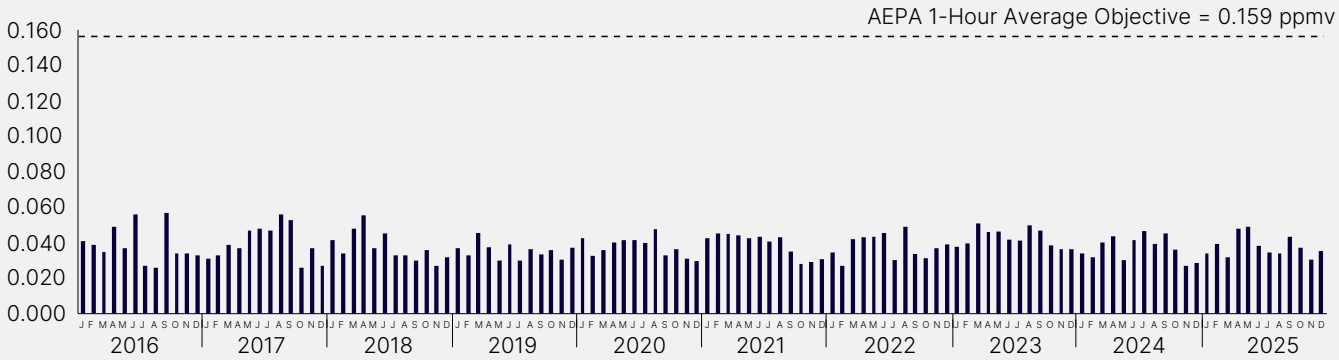
(ethylene reading [ppb])



Ambient ethylene (1-hour maximum) concentrations are well below the AEPA Hourly Average Objective of 1,050 parts per billion (ppb). The high concentration readings correlate with outage dates and plant start-ups, where most often additional flaring and equipment purging occurred. Operational corrections for flaring events and repairs made through the LDAR program (Leak Detection and Repair) have been made as necessary, and have successfully reduced the number of high concentration readings.

Ambient Air NO_2 1-Hour Maximum Concentrations

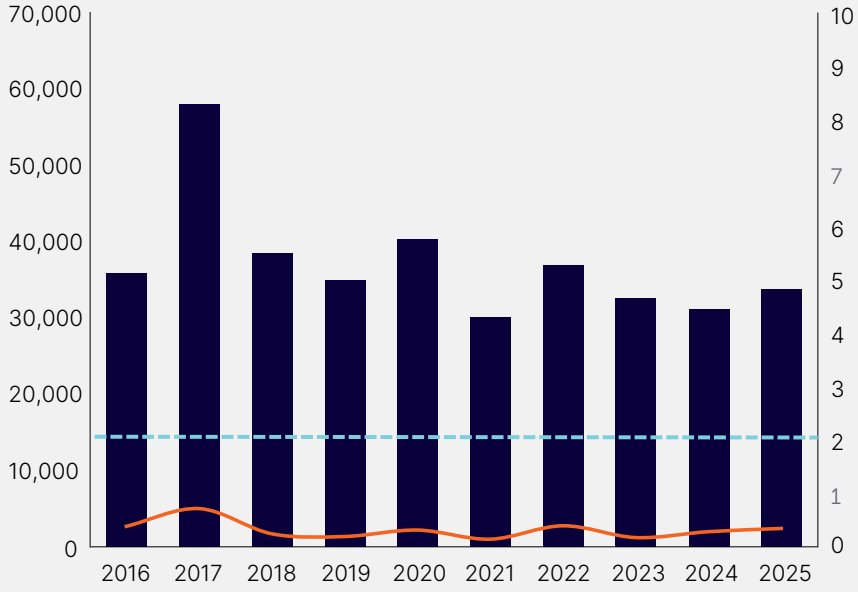
(NO_2 readings [ppmv])



Concentrations of oxides of nitrogen (NOX), specifically NO_2, are consistently below regulatory limits.

Petrochemical facility fugitive VOCs

(kilograms of fugitive VOCs) (% allowable leak rate)



Kilograms of Fugitive VOCs
Leak Rate
% Allowable Leak Limit

Note: The orange and light blue lines use the right hand axis

Volatile organic compounds (VOCs) emissions are hydrocarbons that can affect air quality. Our site's comprehensive LDAR program is fully implemented according to the Canadian Council of Ministers of the Environment Code of Practice. While the Code states that leaks over 10,000 ppm must be repaired, we schedule prompt maintenance for any leak over 1,000 ppm.

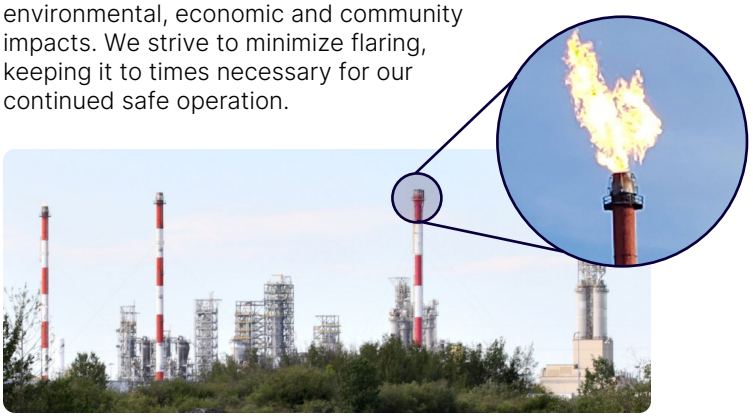
What to Expect When We Flare

Flares are important safety devices used in refineries and petrochemical facilities. They safely burn excess hydrocarbon gases that cannot be recovered or recycled and do so in an environmentally-sound manner.

Our flare systems must meet strict environmental controls and approvals, as well as Borouge International's (NOVA Chemicals) process safety and Responsible Care® standards. The use of flares is minimized to the extent possible. Flaring can occur during start-up and shut down of our facilities for planned maintenance, and also during unplanned operational interruptions.

We know that flaring may cause disruptions for our neighbours and community, particularly as it relates to noise, vibration, and flame glow. When you see flaring, please be assured that flares play a key role in keeping our facilities running safely.

Our operating policy is to minimize flaring to reduce environmental, economic and community impacts. We strive to minimize flaring, keeping it to times necessary for our continued safe operation.



Noise Management Updates

Monitoring, modelling, and mitigation are key components of our ongoing noise management strategy. We also conduct ad hoc noise monitoring during unit shut-downs and start-ups.

The North Rail Abatement Strategy 2025 results indicated that **sound levels continue to be below the Alberta Energy Regulator Noise Directive**.

There was one rail curfew exceedance for the north rail yard in 2025 due to a track maintenance project occurring over multiple days.

Our Commitment to Waste Reduction

We continue to seek new ways to divert items away from the landfill.

In 2025, **80% of waste generated was recycled, reused, or recovered**.

A new statistic we are tracking is the amount of off-spec polyethylene recycled. This material is generated as a production by-product and recovered as post-industrial recycled material. In 2025, we **recycled 4,179 tonnes**.

Our Soil Enhancement Program continues to benefit local farmers' fields with the **application of our spent lime/ phosphate to 1,767 acres** in 2025.

Through ongoing promotion and awareness of our onsite recycling programs, we **raised over $3,300 for the United Way** in 2025. These funds support hot breakfasts for school-aged children, domestic violence therapy, literacy training, immigrant training, and more.

CARING FOR OUR ENVIRONMENT

The Sustainability Action Team is an employee-led team passionate about sustainability. They act on initiatives that reduce environmental impact and/or raise awareness to influence positive personal behaviours.

Manufacturing West
Sustainability Action Team

Annual Tree Planting

On May 8, employees and their families volunteered to support the Red Deer Community Reforestation Program by **planting over 800 seedlings** in the Queens Industrial Park Reforestation Area. This brings our total count to **18,839 seedlings planted around Red Deer since starting this event in 1997**.

Adopt-A-Highway Spring Clean Up

As part of our sponsorship of Adopt-A-Highway Programs, we support 16 youth groups each year to **sweep a total of 85 KM of ditches surrounding the Joffre Site**. The groups collect garbage and identify hazardous items for proper retrieval and disposal. **Please drive with caution when you see the youth groups in the area!**

Reducing Road Traffic, On and Off Site

To help reduce the impact of traffic in our community we have our **NOVA To Go carpool app** for employees and contractors to find carpool partners. We actively promote carpooling and the use of our app to help encourage ride-sharing. Our **on-site bike share initiative** encourages employees to utilize bicycles for transportation around the site to reduce the number of vehicles in use.

River-Valley Clean Up

We once again sponsored the Food Bank's Totally Chill Ice Cream Truck to thank River Valley Clean-Up crews with a cool treat. Thanks to all the participants who joined the spring clean-up!

COMMUNITY ENGAGEMENT

Red Deer Polytechnic

Employees attended the World of Choice Summit at Red Deer Polytechnic in April. Attendees were Grade 10 and 11 students with interest in a post-graduate trade pathway. The event included a speaker panel followed by a tour of the trades wing and expo.

Science Olympics

We are a proud sponsor of the annual Science Olympics, ensuring young Central Albertans in grades 4-12 have the chance to participate in this great STEM event. 130 students competed as teams in a series of application and problem-solving challenges designed to promote teamwork, creative thinking, and fun in engineering and geoscience. The annual event is hosted by the Association of Professional Engineers and Geoscientists of Alberta's (APEGA) — Central Branch in Red Deer. Some of our employees volunteered and helped organize the event to help encourage interactive learning and inspire tomorrow's innovators!

Indigenous Inclusion Employee Resource Group Activities

We welcomed members of the Urban Indigenous Voices Society to share with our Indigenous Inclusion employee resource group. We learned about the support and community they provide in the Red Deer area.

On May 5, Red Dress Day, our group participated in a beading workshop led by Moonstone Creation. Members got to try their hand beading their own red dress pin to recognize this National Day of Awareness and remembrance in Canada for Missing and Murdered Indigenous Women, Girls, and 2SLGBTQI+ people.

United Way Campaign Awards

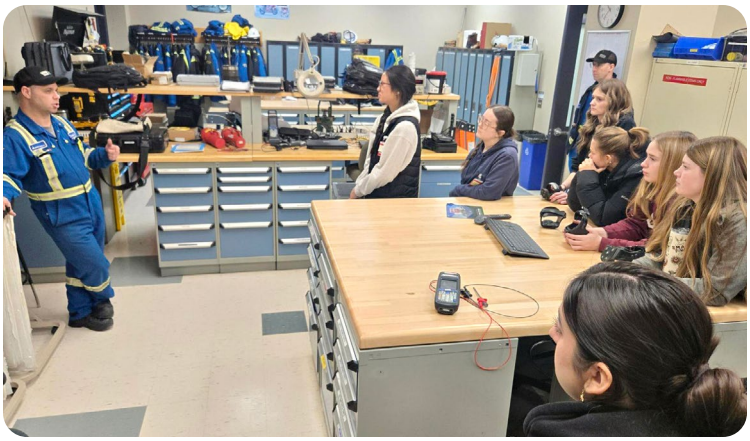
We were honoured at the United Way Central Alberta campaign wrap up with two special awards: top workplace campaign in 2025 and a special recognition for NOVA Chemicals 30+ years supporting United Way. It was a great way to celebrate NOVA's commitment over the decades and set the tone for the inaugural Borouge International campaign in 2026!

Burman University Business School

In early March, students from Burman University's Business School visited the Site for a tour and overview of our operations with insight into the types of corporate roles that support Joffre Site.

Young Women in Trades & Technologies

In late February we partnered with CAREERS to host a Young Women in Trades & Technologies event for students from across Central Alberta high schools to show them the different opportunities in trades and technologies available at the Joffre Site.



STEPS for Life

It was a beautiful day down at Bower Ponds for the annual Steps for Life Walk in support of Threads of Life and those impacted by workplace illness, injury, or tragedy. We had a great turn-out to raise funds and awareness for this important cause.

4-H Beef Sale

We enjoyed another great evening at the Lacombe District's 4-H Club's beef sale in May. We purchased 7 steers and sponsored Supreme Female Champion, awarded to Adrianne Denschikoff. Congratulations to all the participants on their hard work this year!

STAY CONNECTED

Reminder for those in the 5KM notification zone

No longer Tennessee — caller ID may display 'NHO Reception' and/ or the phone number **403 750 3600**.
A pre-recorded message will play upon answering the phone call, press '1' to confirm receipt of the message.

Important Upcoming Dates

- **June 21 & December 21 (annually) —** Offsite Emergency Community Notification System testing & Joffre Alarm Testing
- **November 5, 2026 —** Fall Open House, Haynes Hall
- **November 7, 2026 —** Site Alarm Testing

Sign up for Texts

Sign up for Texts from the Joffre Site by texting **JOIN** to **587 331 9506**. This is a proactive communications avenue to share helpful information with community members to keep you in the loop on community events, alarm or Communicator testing, and site activity, like flaring. Texts will be sent from 8 AM – 8:30 PM, as activity dictates.

Texts from Joffre Site **will not be used for emergency situations**, our Emergency telephone notification system will remain the only avenue for these communications.

NOVA Chemicals Community Nature Trail

Due to potential dry conditions this year, there is potential for high wildfire risk. Please be mindful there is a no smoking policy at the Nature Trail.

During high wildfire season, please use extra caution:

No smoking

The use of tobacco, cannabis and vapour devices is prohibited

No BBQ

The use of portable BBQ and camping stoves are prohibited

No motor vehicles

Foot traffic only permitted

Spring Community Open House

Thank you to everyone who attended our first Community Open House as Borouge International. It was a great opportunity to share more about the new organization — what's new and what is the same — and answer any questions. INEOS and Nutrien joined us for this well-attended event. These events are a great avenue for community members to connect with the Joffre Site. Our Fall Open House will be at the Haynes Hall on November 5.

Mutual Aid Spotlight

Borouge International supports the Joffre Site and our neighbours through our participation in Lacombe County Mutual Aid. In addition, our Memorandum of Understanding with Alberta Health Services allows us to provide ambulatory response within 5KM of the Joffre Site which provides fast response times when near-neighbours are in need. **Please remember: whenever you have an emergency situation, dial 9-1-1 to ensure you are connected to the first-available emergency unit.**

So far in 2026 (Jan – April) our Emergency Response Services have responded to the following situations:

- Medical: 8
- Fire: 1
- Motor Vehicle Collision: 3
- Additional Mutual Aid: 1

***SiteLine* is published by Borouge International**
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For more information, please see these websites:

- www.borougeinternational.com | www.novachem.com/joffre
- Chemistry Industry Association of Canada: www.canadianchemistry.ca
- American Chemistry Council: www.americanchemistry.com

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