Appendix A - Consultation Summary

Indus AI Hub and Gas-Powered Electrical Generation Facility Project

AUC Participant Involvement Program Summary Report

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Confidentiality Disclaimer

Throughout the design and development of the proposed Indus AI Hub and Gas-Powered Electrical Generation Facility (the Project), Beacon AI Centers Inc. (the Proponent) has implemented an inclusive Participant Involvement Program (PIP) in full compliance with the Alberta Utility Commission's (AUC*) Rule 007: Facility Applications*. All personal information collected through consultation with stakeholders and engagement with Indigenous groups for the Project was carried out in accordance with the requirements of applicable provincial and federal laws and is consistent with the Proponent's privacy policies.

1 Introduction

1.1 Project Overview

The Proponent is proposing to develop, own and operate one of Canada's hybrid thermal generation facilities, purpose-built to supply continuous 1200 (MW), high-density electrical power to on-site artificial-intelligence (AI), high-performance computing (HPC), and cloud-compute campuses.

Located near Langdon, Alberta, the installation will form the anchor of a purpose-built digital-energy campus designed to operate independently of the provincial transmission system while meeting Tier III/IV data-centre standards for reliability, redundancy, and electrical integrity.

The Project addresses Alberta's growing need for reliable, high-density electrical supply for data-centric Indus tries, particularly artificial-intelligence (AI), high-performance computing (HPC), and cloud-service infrastructure.

Traditional transmission networks are not designed to provide the instantaneous reliability and fault tolerance demanded by Tier IV computing facilities. This Project eliminates dependency on external grid infrastructure by deploying a localized, modular power system directly adjacent to the load.

The Project therefore serves three parallel purposes:

1 To supply continuous, reliable, high-density electrical power to support AI and cloud computing.

2 To deploy scalable, modular, low-emission gas-engine technology as an alternative to other thermal or turbine generation.

3 To create a replicable model for industrial microgrids capable of future hydrogen integration and hybridization with battery-energy storage.

The project is located on privately owned land at Section 11-23-28-W4M approximately seven kilometres west of Langdon, Alberta, and is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County. The Project Footprint will total 252.92 hectares.

1.2 Purpose of this Report

The purpose of this report is to summarize the Proponent's Participant Involvement Program (PIP) to meet or exceed the requirements set out in the Alberta Utilities Commission's (AUC) *Rule 007: Facility Applications*.[1] This report describes engagement activities completed between November 2025 and December 2025 inclusive of any issues

[1] https://media.auc.ab.ca/prd-wp-uploads/regulatory_documents/Consultations/Rule007%202025-10-06.pdf

or concerns raised and the respective mitigation measures. The Proponent is dedicated to the long-term benefits of working with Indigenous Communities as well as local communities and organizations therefore engagement will be ongoing throughout all phases of the Project.

2 PIP Overview

2.1 Consultation and Engagement Objectives

The Proponent endeavours to establish respectful, inclusive, and long-term relationships with Indigenous Communities with a particular focus on the *Truth and Reconciliation Commission's (TRC) Call to Action #92.*[2] The Proponent equally appreciates the feedback from the local Stakeholders, communities and organizations. The Proponent designed the PIP to include information sharing and consultation opportunities for those Indigenous Communities and Stakeholders who were potentially directly impacted within an 800 m radius of the Project, as well as an information sharing and notification process for those within a 2000m radius of the Project.

In addition to the AUC PIP requirements the Proponent included the Aboriginal Consultation Office (ACO) Pre-Consultation Assessment Request Procedure to seek the ACO's direction on consultation with Indigenous Communities to ensure the Crown Duty to Consult was met.

The Proponent designed the PIP to meet the following objectives:

1) Identify Indigenous Communities and Stakeholders who may be directly or indirectly affected per the designated radii in *Table 4.7 of AUC Rule 007*.
2) Provide Indigenous Communities and Stakeholders with the Project information in a manner that is comprehensible and captures potential impacts.
3) Provide opportunities for meaningful information sharing and open dialogue in the preferred mode of engagement and in accordance with ACO Direction for Indigenous Communities.
4) Effectively identify areas of interest and/or concern for Indigenous Communities and Stakeholders.
5) Develop and implement mitigative measures that appropriately address the issues or concerns raised by Indigenous Communities and Stakeholders.

[2] https://nctr.ca/about/history-of-the-trc/truth-and-reconciliation-commission-of-canada-calls-to-action/

The Proponent engaged early and often throughout the planning and development stages of the Project to meet the objectives outlined. The Proponent made reasonable efforts to accommodate the needs and concerns of the Indigenous groups and stakeholders in the final Project design.

The Proponent has a general website (https://beaconaicenters.com/) which provides an overview of the Proponent and its projects as well as an option to contact for more information. Additionally, a toll-free phone number (1-866-594-9982) and email (indus@beacondatacenters.com) were set up for the Indigenous Communities and Stakeholders to call or contact the Proponent for further information, raise concerns or provide feedback. These designated means of contact and information sharing will remain in place for the duration of all Project phases.

The Proponent is confident that the PIP has succeeded in ensuring that Indigenous Communities and Stakeholders have:

1) been appropriately and sufficiently notified of the Project;
2) been given ample opportunity to ask questions, provide input and feedback, as wells as indicate issues and/or concerns about the Project;
3) been provided with adequate follow up information and mitigative measures for the issues and/or concerns raised.

If the AUC approves the Project, the Proponent will continue to engage with and respond to Indigenous Communities and Stakeholder's who request additional information and/or consultation for the duration of the development, construction, operation, and decommissioning phases of the Project.

3 Stakeholder Engagement

When planning the PIP, the Proponent identified stakeholders within the following Project radii as designated by *Table 4.7 of AUC Rule 007*:

1) Occupants, residents, interest holders and landowners within an 800 metre (m) consultation radius of the Project boundary;

2) Occupants, residents, interest holders and landowners within a 2,000 m notification radius of the Project boundary;

3) Local municipalities within the Project area include Rocky View County, and Wheatland County.

3.1 Development of Stakeholder List

A Project specific Stakeholder list was developed based on the identified categories of consultation and notification radii which included name, company, address, as well as phone and email where available. A detailed review of the Rocky View County Property Map was conducted to determine the specific land parcels (inclusive of parcel size and zoning) within the 800m consultation radius and the 2000m notification radius. This information was then used to obtain land titles from Spin2 to populate the Stakeholder list. Additionally, local jurisdictions, special interest groups who may have ongoing operations or interest in previous projects in the area were included in the Stakeholder list.

As recommend by the AUC guidelines, the Proponent used the Project Boundary to determine the distance for personal consultation (800m) and confirm the potentially directly affected land parcels/stakeholders, as well as the public notification (2000m) distance to confirm the indirectly affected land parcels/stakeholders.

The Proponent made reasonable attempts to notify and engage with occupants of land parcels affected by the Project via mail, phone and/or email wherever available, and an Open House. Stakeholders that requested to be included in the PIP were added to the notification list as additional contacts. A comprehensive Stakeholders and Municipality Contact List is provided as **Appendix A**.

The Proponent will continue the PIP with any new stakeholders who purchase, lease/rent, or occupy properties within the minimum 2000m radius of the Project Boundary, as well as with any Stakeholders requesting additional information.

3.2 Mailing Lists

A complete list of mailing addresses and available contact information for all Project Stakeholders is provided in **Appendix A**.

3.3 Returned Mail

A total of 20 notification packages were returned to the Proponent as undeliverable. The Proponent was able to find corrected mailing information for 8 of the returned packages, email addresses for 4 stakeholders. These Stakeholders were provided the Notification Packages along with the Follow-up letter. The Proponent found phone numbers for 2 stakeholders and attempted calls to obtain correct addressing and inform of the Project. Messages were left however to date no calls have been returned.

A list of returned mail and corrections is provided in **Appendix B**.

4 Consultation and Engagement Procedures

The Proponent has considered all Indigenous Community and Stakeholder issues, concerns, and feedback from the onset of the PIP and while in the Project development phase. Specific mitigation measures were developed where applicable to appropriately address issues and concerns raised. The Project Team have consulted with all landowners within 800m of the Project Boundary via phone, email, meetings, and the Open House to ensure each Stakeholder was successfully contacted and informed.

The same procedure was utilized by the Project Team for the larger 2000m notification radius of the Project Boundary.

The Indigenous Consultation Procedure was carried out initially by the ACO PCA Request whereby direction on consultation was provided by the ACO reviewer. Once a decision was provided by the ACO, the AUC Indigenous Consultation Request for Feedback from AUC was submitted according to *Appendix A1-B of AUC Rule 007*.

4.1 Recording Consultations

The Proponent and the Project Team completed record of contact (ROC's) forms for each interaction or engagement activity throughout consultation and engagement process and PIP. The ROC's detailed the type of engagement activity, who was being engaged, as well as any issues or concerns raised. A blank Record of Contact Form is provided as **Appendix C**.

The ROCs were collectively documented in the Full Engagement Summary (provided in **Appendix D**) categorized by Stakeholders within the 800m consultation radius, Stakeholders within the 2000m notification radius, Indigenous Communities, local Municipalities, and additional contacts respectively. Where community Open Houses were held, event details and the issues and/or concerns raised were documented and summarized by category. In the case of meetings held with Indigenous Communities, Stakeholders, Municipalities, and Special Interest Groups, meetings minutes were recorded and summarized in the Full Engagement Summary.

Where issues, concerns, or specific input and/or feedback was provided by Indigenous Communities, Stakeholders, Municipalities, and Special Interest Groups, these details were documented in a Concern and Response Table (provided in **Appendix E**). The Proponent addressed all issues and concerns with appropriate mitigative measures relative to the respective categories where applicable. Any outstanding issues or concerns are identified as ongoing in the Concern and Response Table.

5 Indigenous Consultation

5.1 Identification of Indigenous Groups

There are no Indigenous Communities within the consultation and notification radii as outlined in the *Table 4.7 and Appendix A1-B of AUC Rule 007*. Although the project footprint is on private land with no expected Water Act applications with crown interests, as a matter of due diligence and meeting the Crowns Duty to Consult, the Proponent opted to follow the Government of Alberta's Proponent Guide to First Nations, Metis Settlements and Credibly Asserted Métis Communities consultation procedures[3] and submit a Pre-Consultation Assessment Request to the ACO for direction on consultation. Following the ACO response the Proponent proceeded with the AUC Indigenous Consultation Request for Feedback form submission according to *Appendix A1-B of AUC Rule 007*. The Indigenous Consultation Activities are provided in further detail in the following sections with the ACO Pre Consultation Assessment Request response provided in **Appendix F**.

In recognition of the proposed Project being located in Treaty 7 territory, the Proponent has consulted with the following Indigenous Communities:

[3] https://open.alberta.ca/dataset/fa89ef60-6c3d-4db3-8a0d-f3094582d568/resource/4a4fc3ef-4709-453c-9aca-a46cfb112b94/download/ir-goa-proponent-guide-first-nations-metis-settlements-consultation-procedures-2024.pdf

1) Tsuut'ina Nation
2) Piikani Nation
3) Siksika Nation
4) Blood Tribe
5) Stoney Nakoda Nation – Bearspaw
6) Stoney Nakoda Nation – Chiniki
7) Stoney Nakoda Nation – Goodstoney
8) Metis Nation of Alberta Region 3
9) Métis Nation of Alberta - Otipemisiwak Métis Government
10) Metis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District

The Metis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District was added to the Indigenous Contact List once the Proponent learned of the new structure of consultation developed within the MNA-OMG. The email notifications are automatically forwarded to the respective MNA-OMG Territories and their District Consultation Contact. The direct contact information for Rocky View Metis District was added and will be included in further updates.

The complete Indigenous contact list with respect to Treaty 7 Lands is provided in **Appendix G**.

5.2 Indigenous Consultation Activities

5.2.1.1 Aboriginal Consultation Office (ACO) Pre-Consultatation Assessment (PCA) Request

The Proponent utilized the Government of Alberta Landscape Analysis Tool (LAT) to request a LAIRT report which indicated the following Treaty 7 Nations may require consultation at the ACO's direction:

1) *Tsuut'ina First Nation*
2) *Blood Tribe*
3) *Piikani Nation*
4) *Stoney Nakoda First Nation*
5) *Siksika Nation*

For this reason, the Proponent opted to submit an ACO PCA Request as per the GoA Proponent Guidelines as a matter of due diligence in meeting the Crown's Duty to Consult.

The Proponent submitted the PCA Request on November 25, 2025, in both the Electronic Disposition System (EDS) (Public Lands Act) and the ACO DS system (Water Act). The ACO reviewer indicated on November 28th, 2025, that the Public Lands Act does not apply to the private land and therefore the ACO office could not give an assessment. The EDS system FNC202501103 was cancelled upon request of the ACO reviewer on November

28th, 2025. The ACO reviewer sent an information request (IR) in the ACO DS system for FNC202554527 on November 28th, 2025, with specific instructions for changes to the application as well as requiring further detail regarding wetland activity size and description of changes to be made. The updated information was provided on December 12th, 2025. The ACO reviewer provided the Pre-Consultation Assessment Request decision on December 16, 2025, recommending no consultation required.

The ACO response is provided in **Appendix F.**

5.2.1.2 Indigenous Community Project-specific information package (PSIP)

The Proponent sent a Project-specific information package (PSIP) via email on November 20, 2025, to the 10 identified Indigenous Communities listed above. The November 2025 Project notification included:

1. An introductory cover letter with a Project and Proponent description;
2. An open house invitation;
3. AUC brochure titled *Public Involvement in a Proposed Utility Development*.

A copy of the November 20, 2025, Indigenous PSIP Notification is provided in **Appendix G.**

Indigenous Communities were offered meetings with the Proponent to discuss the Project. To date no Indigenous Communities have responded to notifications or requested meetings.

See **Appendix D** for a full engagement summary and **Appendix E** for all issues and concerns raised.

Indigenous Consultation will continue throughout the Project lifecycle. The Proponent welcomes feedback about the Project at any time and is committed to engagement as the Project moves through the approval process.

5.2.1.3 AUC Indigenous Consultation Request for Feedback Form

Upon receipt of the ACO PCA Request response and in accordance with the *AUC's Rule 007: Facility and (Appendix A1-B – Participant)*, the Proponent submitted a "*Request for AUC staff feedback on participant involvement program for Indigenous group form*" to the AUC on December 16, 2025, The Proponent is awaiting response and will follow any recommendations received as feedback from the AUC reviewer.

6 Summary of PIP Activities

6.1 Stakeholder Notifications

The Proponent sent a total of one hundred (100) PSIP packages via tracked mail to stakeholders within the 800m and 2000m consultation radii who did not have email addresses available on November 20, 2025. A total of eleven (11) PSIP packages were sent vie email to those stakeholders within the 800m and 2000m radii with email addresses available on November 20, 2025.

The Proponent provided clear and transparent materials in the PSIP to deliver timely and relevant information.

The November 2025 Project notification included:

1. An introductory cover letter including a Project and Proponent description;
2. A Project Information Package and Open House invitation;
4. AUC brochure titled Public Involvement in a Proposed Utility Development.

The November 2025 Stakeholder and Municipality PSIP Notification is provided in **Appendix I**.

6.2 Open House

A public Open House was held by the Proponent at the Indus Recreation Center Meeting Room in Indus, Alberta where Indigenous Communities and Stakeholders were invited to participate. Details on the Open House and attendance are provided in the table below.

Table 1: Open House Details and Attendance

Date	Location	Time	Community Attendees
November 24th, 2025	Indus Recreation Center Meeting Room 225155 Range Road # 281A Indus, AB	6:00 pm – 8:00 pm	27

The Proponent ensured that the appropriate subject matter experts on environment, regulatory and permitting, and power plant development attended the open house to listen and effectively respond to questions, concerns and interests.

Information display boards and Project mapping were set up for Attendees to review and reference in their questions. Feedback forms were also provided for attendees to submit their comments on the Project; these are provided in Appendix J for reference.

The Open House attendees who provided contact information and requested project updates were added to an additional contacts list found in **Appendix A.** Email addresses and phone numbers provided by attendees already included in the stakeholder contact list were added.

Open House Materials are provided in **Appendix J**.

Please refer to **Appendix D: Consultation and Engagement Summary** where Stakeholder comments were formally recorded.

6.2.1 Advertisements

The Proponent directly invited Indigenous Communities and Stakeholders to the Open House via PSIP notifications sent via email and tracked mail.

The Open House was advertised in the Rocky View Weekly Newspaper to inform the public. The advertisement included the date, time, and location of the Open House as well as Proponent and Project specific information.

The Open House Advertisement and Invitation is provided in **Appendix K.**

6.2.2 Specific Concerns Raised

The responses of the Open House attendees were categorized by topic. Concerns are be summarized as below based on the feedback received. The Proponent representatives addressed the concerns raised during the event by providing specific information regarding environmental studies and assessments. The following topics were raised:

1) Land Use
2) Noise Impact
3) Air Impact
4) Water Usage
5) Continued Consultation

6.1 Follow up “What We Heard” Update

In response to the concerns raised by Stakeholders who provided feedback the Proponent provided a follow up letter to address those concerns, provide specific information and mitigative measures. This package was sent via email to the twenty-four (24) Stakeholders, ten (10) Indigenous Communities and two Municipalities with email addresses available on December 18th, 2025. A total of eighty-three (82) packages were sent via tracked mail on December 19th, 2025, to Stakeholders where only mailing addresses were available. A total

of 7 Stakeholders in the 800m and 2000m radii could not be reached due to unknown contact information.

The December 2025 Stakeholder Follow up is provided in **Appendix L.**

6.2 Notice of Application to Stakeholders, Indigenous Communities, Municipalities, and Associations

The Proponent will provide the AUC issued Notice of Application letter inclusive of proceeding and application number to Stakeholders, Municipalities, and Associations via email and tracked mail on upon receipt.

The AUC Public Involvement Brochure was included in the Notice of Application package to provide Stakeholders, Indigenous Communities and Municipalities with further information on how to participate in the AUC's independent review process if interested.

The Proponent understands that the AUC directly informs Indigenous Communities with the Notice of Application and file number via email.

6.3 Consultation with local jurisdictions, relevant federal and provincial ministries and agencies and other special interest groups

The Proponent initiated consultation with local jurisdictions and community associations on November 20, 2025. The Project consultation materials were delivered via email to the appropriate contact person and department within each organization along with the *AUC Municipal Engagement Form per AUC Rule007*.

Please refer to **Appendix A** for Municipality Contact List and **Appendix D** for the comprehensive engagement summary.

6.3.1 Rocky View County, and Wheatland County

The Project is located with Rocky View County. The Proponent has worked closely with the County representatives since the fall of 2024 to ensure that the Project specifications were within permitting and planning and development parameters stipulated by Rocky View County Landuse Bylaws.[4]

To date no *AUC Municipal Engagement Forms* have been received from Rocky View County or Wheatland County.

[4] https://www.rockyview.ca/media/325

7 Summary of Inquiries, Concerns and Mitigations

The key concerns raised by Indigenous Communities, Stakeholders, Municipalities and Associations during the Open House event and throughout consultation and engagement were summarized into the categories shown in Table 2. Community feedback was considered and where appropriate, the Proponent sought to implement solutions based on further information provided. The Proponent responses to concerns are also provided in the table.

Table 2: Issues, Concerns and Mitigations

Key Concerns	Specific Interests	Proponent Response/Mitigative Measure
Land Use	Change of Land Use	The project will be situated on private agricultural land within the Special, Data Centre District (S-DAT) in Rocky View County, approximately seven kilometers west of Langdon.
Noise Impact	Impact that sound may have on neighbours, community or region.	Pursuant to AUC Rule 012, all regulated facilities are required to comply with the Permissible Sound Level (PSL) standards during both daytime (07:00 to 22:00) and nighttime (22:00 to 07:00) periods. Compliance must be demonstrated at a distance of 1.5 km (the 1.5 km criteria boundary) from the facility's boundary or at the location of the closest residential dwelling, whichever is nearer. For the purposes of this rule, dwellings are defined as structures that are permanently or seasonally occupied for human rest. The Project requires mitigation measures that are inherent in the designs to achieve compliance with the PSLs of AUC Rule 012. Mitigation measures will be implemented during Project design. The assessment results presented in the previous sections include the application of mitigation measures. Mitigation measures for Project Case components are summarized as follows: • Implementation of mitigation measures for the QPAC modulars to achieve 60 dBA at 10 m for each modular. This may be achieved in conjunction with the manufacturer supply

Key Concerns	Specific Interests	Proponent Response/Mitigative Measure
		modifications, or implementation of additional mitigation measures for the original QPAC modulars, including additional genset exhaust silencers, genset ventilation exhaust silencers, acoustic louvers for radiator and air filtration module, and enhanced modular roof system. • Installation of additional silencers for HRSG stack outlets • Installation of additional silencers for Siemens GT air intake filter houses • Utilization of low-noise ACC units, or installation of silencers for ACC inlets and outlets to meet specified acoustic performance of ACC in Table 8 and Table A.1 • Installation of silencers for the generation building ventilation inlets and outlets • Installation of acoustic barriers on the east side of GSU transformers • Installation of silencers for the air-cooled chiller outlets • Installation of acoustic louvers for the air-cooled chiller inlets • Installation of acoustic barriers on the east and south sides of four data halls Noise effects from the Beacon AI Centers – Indus Project were assessed at eleven receptors R1 through R11. The PSLs for the receptors were determined according to the AUC Rule 012 requirements. Baseline Case sound levels at the receptors were determined using the prescribed ASL and existing third-party facilities noise effect based on the baseline field program. Noise model was compiled using manufacturers data, owner's engineering specifications and drawings, representative noise emission levels from similar equipment, and acoustic calculations. Cumulative sound levels of the Application Case were predicted and compared with the PSLs.

Key Concerns	Specific Interests	Proponent Response/Mitigative Measure
		The modeling results indicate that the predicted cumulative sound levels of the Application Case meet the daytime and nighttime PSLs at all receptors. Also, based on AUC Rule 012 prescribed approach and Health Canada Noise Guidance, low frequency noise effect is not expected at all receptors. This NIA concludes that the Project complies with the AUC Rule 012 requirements. The full Noise effects study will become part of the AUC application that Beacon expects to submit by the end of 2025.
Air Impact	Impacts to air quality from the power generation proposed at the site.	Beacon plans to build and operate the Indus Data Center Project which includes a 1200 MW power generation facility located in Rocky View County approximately 8km west of Langdon, Alberta. Potential effects on ambient air quality associated with the Project were evaluated using the AERMOD dispersion model. Maximum ground-level concentrations of NO_2, CO and $PM_{2.5}$ were predicted and compared to the Alberta Environment and Protected Areas (AEPA) Ambient Air Quality Objectives and Guidelines (AAAQO/G; (AEPA 2024a)). The air quality assessment shows that maximum predicted ground-level concentrations for all substances of interest associated with emissions from the Project (the Project alone) are below the AAAQO/G for all relevant averaging periods (ranging between 0.5% and 20% of the AAAQO/G). The maximum predicted NO_2, CO, and $PM_{2.5}$ concentrations for all averaging periods associated with the Base Case and Application Case are below the AAAQO. A comparison between maximum predicted concentrations for the Base Case and Application Case indicates small increases

Key Concerns	Specific Interests	Proponent Response/Mitigative Measure
		(up to 0.8%) to the maximum predicted NO_2, CO and $PM_{2.5}$ concentrations with the addition of the Project. The model results show that overall maximum concentrations in the study area are primarily attributable to emissions from the existing regional industrial facilities The full Air Impact study will become part of the AUC application that Beacon expects to submit by the end of 2025.
Water Usage	Project participants have read concerns that Data Centres use excessive amounts of water.	Beacon has an agreement with Langdon Waterworks Ltd. to receive 1500 cubic meters per day of potable water, addressing concerns about excessive water consumption by data centers.
Continued Consultation	When will consultation end.	Beacon is committed to continuing conversations with interested parties for the life of the project. As a new project in the Special, Data Centre District (S-DAT) we look forward to continuing to share project information, updates to the project, and to answer any questions interested parties may have.

Please refer to **Appendix E** for the comprehensive Concern and Response Summary Table.

8 Ongoing Engagement

During consultation and engagement activities, there was no attendance at the Open House from Indigenous Communities or response to the Project notification. Siksika Nation responded to the follow up letter requesting to arrange a Project information meeting in the new year. The Proponent will make those arrangements with Siksika Nation representatives as requested.

Some Stakeholders from within both the 800m consultation radius and the 2000m notification radius were present at the Open House and provided email addresses, requesting project updates. Additional attendees outside of the radii provided email address for continued Project updates. No Stakeholders have reached out directly to date.

The Proponent will continue to communicate with Indigenous Communities and Stakeholders following the Project application being submitted. Additional notifications will be circulated to provide updates on further Project submissions and next steps.

Beacon AI Centers is committed to ongoing and open dialogue with all Indigenous Communities, Stakeholders, Municipalities, and special interest groups who have interest in the Project. Beacon is determined to plan, develop and operate the Project with a respectful, and socially, environmentally, and economically responsible approach.

Beacon AI Centers intends to maintain the community relationships it has formed, as well as foster potential business and capacity development opportunities to ensure long-term community growth and well being.

Appendix A:

Stakeholder, Municipality and Additional Contact List

BEACON AI CENTERS

Indus AI Center Stakeholder Contact List
Landowners within 800m (Directly Affected)

Name	Company Name	Address 1	Address 2	City	Province	Postal Code	Country	Phone Number	Email
BALDEV RAJ JONEJA			280 EDGEHILL DR NW	CALGARY	Alberta	T3A 2S3	Canada		
BRADLEY J COLWELL			303 STRATHMORE BOULEVARD	Toronto	Ontario	M4J 1P9	Canada		
CURT JANZEN &MICHELLE JANZEN			230230 RR 283A	ROCKYVIEW COUNTY	Alberta	T1X 0G9	Canada		
DALE MCRAE		PO BOX 6154,STATION A		CALGARY	Alberta	T2H 2L4	Canada		
DONNA M COURT& ANDREW T COURT			RR 5	CALGARY	Alberta	T2P 2G6	Canada	403-279-0439	
DOREEN GOWDY ANTLIFF	c/o Estate Executor		69 GLADYS RIDGE ROAD	CALGARY	Alberta	T3E 4H9	Canada		
EDWARD M FOLEY			213 EAST STATE STREET	KENNETT SQUARE	PENNSYLVANIA	19348	USA		
EDWARD M FOLEY & MARJORIE F BOYLES	C/O HANSON ASSOCIATES EXECUTORS FOR EDWARD H FOLEY		8908 MACLEOD TRAIL SE	Calgary	Alberta	T2H 0M4	Canada	403-235-5556	
H A CREIGHTON ANTLIFF			RR 5	CALGARY	Alberta	T2P 2G6	Canada	(403) 236-3289	
JOHN S ALLEN			13544 LEE RD	GARDEN BAY	BRITISH COLUMBIA	V0N 1S1	Canada		
JUDITH DIANE COLWELL TAYLOR			4183 VARSITY ROAD NW	CALGARY	Alberta	T3B 2Y6	Canada		
KATHERINE FOLEY LIENTZ			145 DEER CROSSING WAY	AZLE	TEXAS	76020	USA		
KEVIN BOSCHEE& NICOLE BOSCHEE			230230 RR 283A	ROCKYVIEW COUNTY	Alberta	T1X 0G9	Canada		
MARJORIE FOLEY BOYLES			2600 SHERWOOD AVENUE	CHARLOTTE	NORTH CAROLINA	28207	USA		
PATRICK MURRAY COLWELL			1605 SHELBOURNE STREET SW	CALGARY	Alberta	T3C 2L2	Canada		
PETER C ALLEN			1632 ACTON AVENUE SW	CALGARY	Alberta	T2T 2P9	Canada		
ROBERT B ALLEN			852 FREDERICK RD	NORTH VANCOUVER	BRITISH COLUMBIA	V7K 2Y3	Canada		
	GOWDY FARMS LTD.		44 BEARSPAW GREEN	CALGARY	Alberta	T3R 1A4	Canada		gowdyfarms2@gmail.com
	SIMPSON RANCHING LIMITED.		5720-4 ST SE	CALGARY	Alberta	T2H 1K7	Canada	(403) 932-2897	
	CANADIAN PACIFIC RAILWAY COMPANY		500, 401-9 AVE SW	CALGARY	Alberta	T1P 4Z4	Canada	403-319-7000	
	2443443 ALBERTA LTD.		145, 1935-32 AVE NE	CALGARY	Alberta	T2E 7C8	Canada		
	CJ PIPE & SUPPLY CO. LTD		35 CRANRIDGE PLACE SE	CALGARY	Alberta	T3M 0J1	Canada	403 818-8867	
	1997008 ALBERTA LTD.		130 CRANWELL COMMON SE	CALGARY	Alberta	T3M 0J5	Canada		

BEACON AI CENTERS

Indus AI Center Stakeholder Contact List
Landowners within 2000m (Indirectly Affected)

Name	Company Name	Address 1	Address 2	City	Province	Postal Code	Country	Phone	Email Address
DOREEN GOWDY ANTLIFF	c/o Estate Executor		Updated Adress - 69 GLADYS RIDGE ROAD	CALGARY	Alberta	T3E 4H9	Canada		
SHARON L EDWARDS & THOMAS WILLIAM SOTHAM		BOX 4, SITE 11, R.R. 5		Calgary	Alberta	T2P 2G6	Canada		
	2065256 ALBERTA LTD.		8727 - 138 AVENUE SE	Calgary	Alberta	T3S 0A6	Canada		
ANTONIO FERREIRA & MARIA FERREIRA			233024 RANGE RD 282 SOUTH	ROCKY VIEW COUNTY	Alberta	T1X 0H2	Canada		
DWIGHT LAPEARE & BEVERLEY LAPEARE & TIMOTHY VALKENBURG & NICOLE VALKENBURG			233057 GLENMORE VIEW ROAD	ROCKY VIEW COUNTY	Alberta	T1X 0H3	Canada		
NOOR ALI KHIDRI			233040 RGE RD 282	ROCKY VIEW COUNTY	Alberta	T1X 0H2	Canada		
BALDEV RAJ JONEJA			280 EDGEHILL DR NW	Calgary	Alberta	T3A 2S3	Canada		
	1728193 ALBERTA LTD	BOX 774		OKOTOKS	Alberta	T1S 1A8	Canada		
RICHARD FEDDEMA & CARMEN FEDDEMA		BOX 9, SITE 10, R.R. 5		Calgary	Alberta	T2P 2G6	Canada		
	2527285 ALBERTA INC		23 TARALEA PLACE NE	Calgary	Alberta	T3J 4W6	Canada		
	CRUZ CARRIERS INC		233002 RANGE ROAD 283	RURAL ROCKY VIEW COUNTY	Alberta	T1X 0K7	Canada		
	ALAN FARMS LTD	BOX 70		LANGDON	Alberta	T0J 1X0	Canada		
	DUGDALE RANCHES LTD.		225044 RANGE ROAD 282	ROCKY VIEW COUNTY	Alberta		Canada		
DONALD JOHN ROSS			3131-44 STREET SW	Calgary	Alberta	T3E 3R5	Canada		
CHRISTINE DOT MCKINNON			6420 ELBOW DRIVE SW	Calgary	Alberta	T2V 1J5	Canada		
JANET ELAINE KYLE			2051 33 STREET SE	Calgary	Alberta	T2B 0T8	Canada	403-796-5466	barb.kyle@gmail.com
VANESSA LEE STEELE			129 CHAPARRAL ROAD SE	Calgary	Alberta	T2X 3J8	Canada	587-968-2992	vansteele02@gmail.com
Sebastiaan Borsboom	BORSBOOM FARMS LTD		245152 RANGE ROAD 274	ROCKY VIEW COUNTY	Alberta	T1Z 0Y2	Canada	403-700-2937	Sebastiaan.Borsboom@gmail.com
JANICE ANN HILTON & CHRISTOPHER JOHN DE LA MARE		PO BOX 2110, STN MAIN		COCHRANE	Alberta	T4C 1B8	Canada		
JOSHUA POFFENROTH AND JOCELYN POFFENROTH			234129 RANGE RD 280	ROCKY VIEW COUNTY	Alberta	T1X 0J9	Canada		
ARNOLDUS F M HEUVER & JOHANNA M G HEUVER			RR 5	Calgary	Alberta	T2P 2G6	Canada		
	GOWDY FARMS LTD.		44 BEARSPAW GREEN	Calgary	Alberta	T3R 1A4	Canada		gowdyfarms2@gmail.com
EDWIN L PATTON & JOAN PATTON			230176 RANGE ROAD 280	ROCKY VIEW	Alberta	T1X 0H6	Canada		
GARRY EDWARD BRAUNWARTH		BOX 17, SITE 9, RR 5		Calgary	Alberta	T2P 2G6	Canada		
JEFFERY KERRIDGE			9716-44 STREET SE	Calgary	Alberta	T2C 2N4	Canada		
PAUL ANDREW ARIS & MICHELLE DOMINIQUE-ARIS			281130 TOWNSHIP ROAD 230	ROCKYVIEW	Alberta	T1X 0H9	Canada		
	CANADIAN PACIFIC RAILWAY COMPANY		500, 401-9 AVE SW	Calgary	Alberta	T1P 4Z4	Canada		real_estatecanada@cpkcr.com; Peiter.Hjertstedt@cpkcr.com
SHEILA BUCKLEY		BOX 89055	70 HIGH ST SE	Calgary	Alberta	T2Z 3W3	Canada	403-617-9530	schndersa@hotmail.com
DAVID SACCO & ANITA SACCO			282055 TOWNSHIP ROAD 230	Calgary	Alberta	T2P 2G6	Canada	403-936-2086	sacco@explornet.com
	10-10 HOLDINGS LTD.		C/O 106, 1144-29 AVE NE	Calgary	Alberta	T2E 7P1	Canada		
CAMILLE JUCO GRANDA & DAVID JOSHUA JUCO GRANDA			50 ROYAL ELM GREEN NW	Calgary	Alberta	T3G 0G8	Canada		
CATHERINE CASTANEDA			201, 1812-4 STREET SW	Calgary	Alberta	T2S 1W1	Canada		
	1093961 ALBERTA LTD.		416 TARACOVE ESTGATE DRIVE NE	Calgary	Alberta	T3J 4S8	Canada		
	1274770 ALBERTA LTD		5966 SADDLEHORN DRIVE NE	Calgary	Alberta	T3J 4M2	Canada		
PRATIK SHAH & ANISHA SHAH-PATEL			351 VALLEY WOODS PLACE NW	Calgary	Alberta	T3B 6A4	Canada		
SACHIN SHAH & RUJUTA PATEL			168 ROCKBLUFF CLOSE NW	Calgary	Alberta	T3G 5B2	Canada		
NASREEN MUHAMMAD EXECUTRIX FOR ABUL FAZAZ MUHAMMAD & NASREEN MUHAMMAD			58 ROYAL BIRCH LANDING NW	Calgary	Alberta	T3G 5R3	Canada		
HARKANWAL SINGH BRAR			276 TEMPLESIDE CIRCLE NE	Calgary	Alberta	T1Y 3L9	Canada	403-568-4033	
LATIFA ABEDIN			252 EDGEBROOK PARK NW	Calgary	Alberta	T3A 5T7	Canada		

BEACON AI CENTERS

Indus AI Center Stakeholder Contact List
Landowners within 2000m (Indirectly Affected)

Name	Company Name	Address 1	Address 2	City	Province	Postal Code	Country	Phone	Email Address
LEONILA MALIG & AURELIO MALIG			201, 1812-4 STREET SW	Calgary	Alberta	T2S 1W1	Canada		
LUZVIMINDA RIVERO			276 BEDDINGTON CIRCLE NE	Calgary	Alberta	T3K 1K7	Canada		
JAY HUYATID JUAREZ			222 TUSCANY RIDGE HEIGHTS NW	Calgary	Alberta	T3L 3C1	Canada		
JUNA JUAREZ GALAROSA			175 SADDLEBACK ROAD NE	Calgary	Alberta	T3J 4K6	Canada		
GLORIA ABAT			116 DOUGLASDALE PT SE	Calgary	Alberta	T2Z 3B4	Canada		
AMELIA GOPEZ DAVID			196 CITADEL CREST PARK NW	Calgary	Alberta	T3G 5N1	Canada		
GURVEER SINGH RANDEV			BOX 1 SITE 6 RR6	CONRICH	Alberta	T2M 4L5	Canada		info@luxuriahomes.ca
DEEPAK SINGH SANDHU			23 ST. ANDREWS PLACE	ROCKYVIEW	Alberta	T1Z 0A5	Canada		
MANPREET NAHIL			125 PARK DRIVE	ROCKYVIEW	Alberta	T1Z 0A3	Canada		
SANDRA AMMANN			281218 TOWNSHIP RD 225A	INDUS	Alberta	T1X 0H7	Canada		
WALTER KEMBLE			290020-224 WEST	FOOTHILLS	Alberta	T1S 3K5	Canada		
PATRICIA WARDLAW			137 ELIZABETH DR	SALT SPRING ISLAND	BRITISH COLUMBIA	V8K 1H8	Canada		
CONNIE CHALLICE			281242 TOWNSHIP ROAD 225A	RURAL ROCKY VIEW COUNTY	Alberta	T1X 0H7	Canada	403-803-6739	Connie.Challice@gmail.com
EDWARD M FOLEY & MARJORIE F BOYLES	C/O HANSON ASSOCIATES EXECUTORS FOR EDWARD H FOLEY		8908 MACLEOD TRAIL SE	Calgary	Alberta	T2H 0M4	Canada		
EDWARD M FOLEY			213 EAST STATE STREET	KENNETT SQUARE	PENNSYLVANIA	19348	USA		
KATHERINE FOLEY LIENTZ			145 DEER CROSSING WAY	AZLE	TEXAS	76020	USA		
MARJORIE FOLEY BOYLES			2600 SHERWOOD AVENUE	CHARLOTTE	NORTH CAROLINA	28207	USA		
	MARBLEHEAD LAND CORPORATION.		2120, 237-4 AVENUE SW	Calgary	Alberta	T2P 4K3	Canada		
JAMES ROBERT HARRIMAN & PATRICIA HARRIMAN			335 PARKVIEW CRES SE	Calgary	Alberta	T2J 4N8	Canada		
JANINE HARRIMAN			404, 323 - 20 AVE SW	Calgary	Alberta	T2S 0E6	Canada		
MARY DOREEN THOMAS		BOX 9, SITE 9, R.R. 5		Calgary	Alberta	T2P 2G6	Canada		
JAMES GORDON THOMAS			R.R. 5	Calgary	Alberta	T2P 2G6	Canada		
JENNIFER JOY HARRIMAN			1004, 225-25 AVE SW	Calgary	Alberta	T2S 2V2	Canada		
	GOLDEN WEST BROADCASTING LTD.		804-16 AVE SW	Calgary	Alberta	T2R 0S9	Canada		
	ZAINABIA INC.		5920-40 STREET SE	Calgary	Alberta	T2C 5G1	Canada		
Simpson Ranching Limited	834586 ALBERTA LTD.		5720-4 ST SE	Calgary	Alberta	T2H 1X5	Canada	(403) 932-2897	
	ALTALINK MANAGEMENT LTD.		2611 - 3 AVE SE	Calgary	Alberta	T2A 7W7	Canada		land@altalink.ca
	1890985 ALBERTA LTD.		232101 RANGE ROAD 283	ROCKYVIEW	Alberta	T1Y 1X1	Canada		
	1288943 ALBERTA LTD.	PO BOX 22555 SOUTH BROOK POST OFFICE		EDMONTON	Alberta	T6W 1S0	Canada		CORPORATEAR@BRYANCO.COM attn J. Patrick Bond
	1808164 ALBERTA LTD.		232029 RANGE ROAD 283	ROCKY VIEW COUNTY	Alberta	T1K 0K7	Canada		
	2249324 ALBERTA LTD.		UNIT 538, 7360-137TH STREET	SURREY	BRITISH COLUMBIA	V3W 1A3	Canada		
	CARMMA FUTURES LTD.		11315 87 STREET SE	CALGARY	Alberta	T3S 0A3	Canada		
	TIDEMER INVESTMENTS INC.		94 CHAPALINA PARK CRES SE	Calgary	Alberta	T3X 3S2	Canada		
	IPIG INC.		2910-88 ST SE	Calgary	Alberta	T1X 0L5	Canada		
ELLYANNE P SINGER			R.R. 5	Calgary	Alberta	T2P 2G6	Canada		
	2628239 ALBERTA LTD.		315 VALLEY WOODS PLACE NW	Calgary	Alberta	T3B 6A4	Canada		
DWIGHT P LA PEARE & BEVERLEY A LA PEARE			R.R. 5	Calgary	Alberta	T2P 2G6	Canada		
JESSICA FERREIRA & FLAVIO GOMES			232145 RANGE ROAD 281	ROCKY VIEW COUNTY	Alberta	T1X 0H4	Canada		
KENNETH JOHN SCHEMENAUER & PATRICIA LOUISE SCHEMENAUER			R.R. 5	Calgary	Alberta	T2P 2G6	Canada		
HAROLD ARTHUR CREIGHTON ANTLIFF			RR#5	Calgary	Alberta	T2P 2G6	Canada	(403) 236-3289	
ARLA MAE HARMER			7436 SILVERHILL ROAD NW	Calgary	Alberta	T3B 3Y1	Canada		
	PRIME LAND DEVELOPMENTS INC.		234234 WRANGLER ROAD	ROCKYVIEW	Alberta	T1X 0P5	Canada		
AMENDEEP BASSI & PARMINDER BASSI			232138 RR 282	ROCKYVIEW	Alberta	T1X 0J3	Canada		
	1245881 ALBERTA LTD.		11370 85 ST SE	Calgary	Alberta	T3S 0A3	Canada		OFFICE@WELLSLAWALBERTA.COM
NANCY GAIL GOWDY			RR#5	Calgary	Alberta	T2P 2G6	Canada		
JOHN W GOWDY & KATHLEEN J BRICKER			240 550 71 AVE SE	Calgary	Alberta	T2H 0S6	Canada		
	G&M GLOBAL RESOURCES INC.		12 ROSEVIEW CRESCENT	ROSEVILLE	ONTARIO	N0B 1E0	Canada		
FRANKLIN TOME & IDALINA TOME			1611 - 33RD AVENUE SW	Calgary	Alberta	T2T 1Y6	Canada		
Cory Lynn McCarthy, Owner	CMAC DEVELOPMENTS INC.	MCKENZIE TOWNE RPO	PO BOX 89016	Calgary	Alberta	T2Z 3W3	Canada	403-398-5508.	info@c-macservices.com
Gary Sutherland (Farmer)			RR#5	Calgary	Alberta	T2P 2G6	Canada	(403) 279-9120	

BEACON AI CENTERS

Additional Interested Parties Contact List									
Name	Company Name	Address 1	Address 2	City	Province	Postal Code	Country	Phone	Email Address
Wayne Hillestad									
Dominic Kazmiekeah									
Jason Reid								403-771-0596	jasonamandareid@gmail.com
Ryan McKenzie								403-819-9317	ryan.s.mckenzie@hotmail.com
Bruce McIntosh								403-831-7355	bruce_bmac@yahoo.ca
Diane Enns								403-998-9737	ennsjd@gmail.com
Maggie Smart Miller								403-835-3134	mrmiller3@outlook.com
Thomas and Gordon Shrake								403-236-0594	teshrake@gmail.com
Beth Barrett								403-703-2867	drbethca@gmail.com
Jenny Barrett								403-875-4312	barrettv270@gmail.com
Paul Schneider								403-617-9835	farmerpaul47@gmail.com
Richard Wagner								403-813-6100	rfwagner78@gmail.com
Ken Friesz								403-371-3588	chrislaposa@gmail.com

BEACON AI CENTERS

Indus AI Center Municipality Contact List								
Municipality Name	**Contact**	**Title**	**Address 1**	**City**	**Province**	**Postal Code**	**Phone**	**Email Address**
	Scott Klassen	Reeve					403-361-8370	scott.klassen@wheatlandcounty.ca
	Brian Henderson	CAO					403-361-2001	brian.henderson@wheatlandcounty.ca
Wheatland County		Planning and Development	242006 Range Road 243	Wheatland County	AB	T1P 2C4	403-934-3321	planninganddevelopment@wheatlandcounty.ca
	Reegan McCullough	CAO					(403) 230-1401	development@rockyview.ca
	Sunny Samra	Reeve						SSamra@rockyview.ca
Rocky View County	Aaron Latimer	Economic Development	262075 Rocky View Point	Rocky View County	AB	T4A 0X2	780-893-9845	ALatimer@rockyview.ca

Appendix B:

List of Returned Mail

BEACON AI CENTERS

List of Returned Mail

	Name	Company N	Address 1	Address 2	City	Province	Postal Code	Country
1	ARNOLDUS F M HEUVER & JOHANNA M G HEUVER			RR 5	Calgary	Alberta	T2P 2G6	Canada
2	MARY DOREEN THOMAS		BOX 9, SITE 9, R.R. 5		Calgary	Alberta	T2P 2G6	Canada
3	DWIGHT P LA PEARE & BEVERLEY A LA PEARE			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
4	KENNETH JOHN SCHEMENAUER & PATRICIA LOUISE SCHEMENAUER			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
5	NANCY GAIL GOWDY			RR#5	Calgary	Alberta	T2P 2G6	Canada
6	ELLYANNE P SINGER			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
7	SHARON L EDWARDS &THOMAS WILLIAM SOTHAM		BOX 4, SITE 11, R.R. 5		Calgary	Alberta	T2P 2G6	Canada
8	GARRY EDWARD BRAUNWARTH		BOX 17, SITE 9, RR 5		Calgary	Alberta	T2P 2G6	Canada
9	JAMES GORDON THOMAS			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
10	1288943 ALBERTA LTD.		PO BOX 22555 SOUTH BROOK POST OFFICE		EDMONTON	Alberta	T6W 1S0	
11	1890985 ALBERTA LTD.		23210 RANGE ROAD 283		ROCKYVIEW	Alberta	T1Y 1X1	Canada
12	H A CREIGHTON ANTLIFF			RR 5	CALGARY	Alberta	T2P 2G6	Canada
13	RICHARD FEDDEMA & CARMEN FEDDEMA		BOX 9, SITE 10, R.R. 5		Calgary	Alberta	T2P 2G6	Canada
14	GURVEER SINGH RANDEV		BOX 1 SITE 6 RR6		CONRICH	Alberta	T2M 4L5	Canada
15	JENNIFER JOY HARRIMAN			1004, 225-25 AVE SW	Calgary	Alberta	T2S 2V2	Canada
16	HARKANWAL SINGH BRAR			276 TEMPLESIDE CIRCLE NE	Calgary	Alberta	T1Y 3L9	Canada
17	1245881 ALBERTA LTD.			11370 85 ST SE	Calgary	Alberta	T3S 0A3	Canada
18	JEFFERY KERRIDGE			9716-44 STREET SE	Calgary	Alberta	T2C 2N4	Canada
19	DONALD JOHN ROSS			3131-44 ST SW	Calgary	Alberta	T3E 3R5	Canada
20	CANADIAN PACIFIC RAILWAY COMPANY			500, 401-9 AVE SW	Calgary	Alberta	T1P 4Z4	Canada

BEACON AI CENTERS

List of Returned Mail with Corrected Addresses

	Name	Company Name	Address 1	Address 2	City	Province	Postal Code	Country	Email/Phone
1	ARNOLDUS F M HEUVER & JOHANNA M G HEUVER		231124 RGE RD 280	RR 5	Calgary	Alberta	T2P 2G6	Canada	
2	DWIGHT P LA PEARE & BEVERLEY A LA PEARE		232228 RGE RD 283	R.R. 5	Calgary	Alberta	T2P 2G6	Canada	
3	NANCY GAIL GOWDY		232222 RGE RD 281	RR#5	Calgary	Alberta	T2P 2G6	Canada	
4	SHARON L EDWARDS &THOMAS WILLIAM SOTHAM		233017 GLENMORE VIEW RD	BOX 4, SITE 11, R.R. 5	Calgary	Alberta	T2P 2G6	Canada	
5	GARRY EDWARD BRAUNWARTH		230064 RGE RD 280	BOX 17, SITE 9, RR 5	Calgary	Alberta	T2P 2G6	Canada	
6	1288943 ALBERTA LTD.			2900, 10180 - 101 STREET	EDMONTON	Alberta	T5J3V5	Canada	CORPORATEAR@BRYANCO.COM attn J. Patrick Bond
7	1890985 ALBERTA LTD.	Gumdoor Trucking ltd	232101 RANGE ROAD 283		ROCKYVIEW	Alberta	T1Y 1X1	Canada	
8	RICHARD FEDDEMA & CARMEN FEDDEMA		233057 RGE RD 282	BOX 9, SITE 10, R.R. 5	Calgary	Alberta	T2P 2G6	Canada	
9	GURVEER SINGH RANDEV		355 Nolandridge Court N.W	(TD Building)	Calgary	Alberta	T3R 0P4	Canada	info@luxuriahomes.ca
10	HARKANWAL SINGH BRAR			276 TEMPLESIDE CIRCLE NE	Calgary	Alberta	T1Y 3L9	Canada	403-568-4033
11	1245881 ALBERTA LTD.		#833, 4445 CALGARY TRAIL NW		EDMONTON	Alberta	T6H 5R7	Canada	OFFICE@WELLSLAWALBERTA.COM
12	JEFFERY KERRIDGE	Kerridge Concrete Ltd	209, 10836 24th St SE		Calgary	Alberta	T2Z 4C9	Canada	
13	CANADIAN PACIFIC RAILWAY COMPANY -now Canadian Pacific Kansas City Ltd.		7550 Ogden Dale Road S.E.		Calgary	Alberta	T2C 4X9	Canada	real_estatecanada@cpkcr.com

List of Returned Mail No Address Corrections Found

	Name	Company Name	Address 1	Address 2	City	Province	Postal Code	Country
1	MARY DOREEN THOMAS		BOX 9, SITE 9, R.R. 5		Calgary	Alberta	T2P 2G6	Canada
2	KENNETH JOHN SCHEMENAUER & PATRICIA LOUISE SCHEMENAUER			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
3	ELLYANNE P SINGER			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
4	JAMES GORDON THOMAS			R.R. 5	Calgary	Alberta	T2P 2G6	Canada
5	H A CREIGHTON ANTLIFF			RR 5	CALGARY	Alberta	T2P 2G6	Canada
6	JENNIFER JOY HARRIMAN			1004, 225-25 AVE SW	Calgary	Alberta	T2S 2V2	Canada
7	DONALD JOHN ROSS			3131-44 ST SW	Calgary	Alberta	T3E 3R5	Canada

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TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres, un bureau de poste ou un point de service désigné de Postes Canada.

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

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TIREZ ICI

CANADA POSTES / POST CANADA

Xpresspost™ REGION / RÉGION

DO NOT COVER THE / NE PAS COUVRIR LE CODE

To | À :

Name/Nom: Arnoldus + Johanna Heuver

Address/Adresse: [redacted]

<personal information removed>

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom: Beacon AI Centers - Indus

Address/Adresse

City

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

33-086-648 (08-04)

Amount Due / Montant dû
$

Initials/ Initiales

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

RTS
RAE 1

TO FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7474 3400 4248 N° DE REPÉRAGE

DIA/ARL 2025.11.21

Reason: Unknown | Raison: Inconnu

TRACKING NUMBER PG 743 400 424 CA N° DE REPÉRAGE

Product is 100% recyclable.
Composé à 100% de matières recyclées. Produit recyclable à 100%.

Signature on delivery? Purchase and apply signature sticker here.
Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Size - Small
Format - Petit
260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

Envelope
Size - Small 260 x 159 mm
Maximum weight - 500 g
Maximum thickness - 15 mm

How to use prepaid envelopes:
1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Review Terms and Conditions at canadapost.ca/generalterms.

Enveloppe
Format - Petit 260 x 159 mm
Poids maximal - 500 g
Épaisseur maximale - 15

Comment utiliser les envel
1) Indiquez l'adresse du
numéro de repéra
2) Déposez dans
désignée d
Reportez

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

ADA POSTES CANADA
Port payé
spost

PULL HERE
TIREZ ICI

CANADA POST / POSTES CANADA

Xpresspost ™/MC

REGIONAL RÉGIONAL

1

RTS
RAE
1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Mary Doreen Thomas
Address/Adresse
<personal information removed>
City/Ville, Province, Postal Code

Telephone No./N° de téléphone

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

From | De :

Name/Nom
Beacon IndusAI Centre
Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client
Telephone No./N° de téléphone

CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7472 0984 0163 N° DE REPERAGE

Reason: Unknown | Raison: Inconnu

DM/ARL 2025-11-21

FSC® C017586

TRACKING NUMBER **PG 720 984 016 CA** **N° DE REPÉRAGE**

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

Made from 100% recycled content. Product is 100% recyclable.

Composé à 100% de matières recyclées. Produit recyclable à 100%.

142200 (22-10)

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du dest
l'endroit spécifié. Conse
situé sur la languette
2) Déposez dans un
bureau de pos
Postes Can

CANADA POSTES
POST CANADA
Postage Port payé
Xpresspost

PULL HERE
TIREZ ICI

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

RTS
RAE
1

CANADA POSTES
POST CANADA

Xpresspost™ REGIONAL RÉGIONAL

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Dwight P. LaPeare and Beverley A. LaPeare
Address/Adresse
<personal information removed>
City/Ville, Province, Postal Code/Code postal

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom
Beacon Heartland AI Center
Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7473 7590 7554 N° DE REPÉRAGE
DIA/ARL 2025-11-21

Reason: Unknown | Raison: Inconnu

TRACKING NUMBER **PG 737 590 755 CA** N° DE REPÉRAGE

Composé à 100% de matières recyclées. Produit recyclable à 100%.

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

SIGNATURE REQUIRED
Apply here
Apposez-le ici
SIGNATURE DE RÉCEPTION

Size - Small
Format - Petit

260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres publique, à un bureau de poste ou à une installation désignée de Postes Canada.

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA

Xpresspost ™/MC **REGIONAL / RÉGIONAL**

DO NOT COVER THE BARC
NE PAS COUVRIR LE CODE À

RTS / RAE 1

To | À :

Name/Nom
Kenneth J. Schemenauer and

Address/Adresse
Patricia L. Schemenauer

<personal information removed>

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials / Initiales
33-086-648 (08-04)

OR PICKUP + $
NCER PAR CARTE + $

TRACKING NUMBER 0980 7473 7590 7417 N° DE REPÉRAGE
Reason: Unknown | Raison: Inconnu

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de tél

TRACKING NUMBER **PG 737 590 741 CA** N° DE REPÉRAGE

Composé à 100% de matières recyclées. Produit recyclable à 100%.

From | De :

Name/Nom
Beacon Heartland AI Center

Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client

Telephone No./N° de téléphone

Signature on delivery? Purchase and apply signature sticker here.
Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Size - Small
Format - Petit
260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres sur la rue, à un bureau de poste ou à un établissement désigné de Postes Canada.

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA

Xpresspost ™/MC **REGIONAL RÉGIONAL** **1**

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Nancy Gail Gowdy
Address/Adresse
<personal information removed>
City/Ville, Province, Postal Code/Code postal

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom
Beacon Heartland AI Center
Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

RTS RAE 1

FOR PICKUP + $
NCER PAR CARTE + $

0980 7472 9191 3141 N° DE REPERAGE

DIA/ARL 2025-11-21

Reason / Inconnu

100% recyclable.

TRACKING NUMBER PC 129 191 314 CA N° DE REPÉRAGE

Composé à 100% de matières recyclées. Produit recyclable à 100%.

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client
Telephone No./N° de téléphone

Signature on delivery? Purchase and apply signature sticker here.
Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here / Apposez-le ici

Size - Small
Format - Petit
260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles. 33-086-742 (23-01)

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres, à un bureau de poste ou à un [illegible] de Postes Canada.

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA

Xpresspost™ REGIONAL / RÉGIONAL

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Ellyanne P. Singer
Address/Adresse
<personal information removed>
City/Ville, Province, Postal Code/Code postal

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom
Beacon Indus AI Center
Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client
Telephone No./N° de téléphone

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû $

Initials/ Initiales

33-086-648 (08-04)

RTS RAE 1

CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7473 7590 6847 N° DE REPÉRAGE

Unknown | Raison : Inconnu

DIA/ARL 2025-11-21

TRACKING NUMBER PG 737 590 684 CA N° DE REPÉRAGE

matières recyclées.
Produit recyclable à 100%.

Signature on delivery? Purchase and apply signature sticker here.
Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Size - Small
Format - Petit
260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

Envelope
Size - Small 260 x 159 mm
Maximum weight - 500 g
Maximum thickness - 15 mm

How to use prepaid envelopes:
1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Review Terms and Conditions at canadapost.ca/generalterms.

Enveloppe
Format - Petit 260 x 159 mm
Poids maximal - 500 g
Épaisseur maximale - 15 mm

Comment utiliser les enveloppes prépayées :
1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres publique, à un bureau de poste ou à une installation désignée de Postes Canada.

Reportez-vous aux conditions à l'adresse postescanada.ca/conditionsgenerales.

CANADA POST / POSTES CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POST / POSTES CANADA
Xpresspost™ REGIONAL / RÉGIONAL 1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Sharon L. Edwards and Thomas W. Sotham

Address/Adresse

<personal information removed>

City/Ville, Province, Postal Code/Code postal

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom
Beacon Indus AI Center

Ad

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

CANADA POST / POSTES CANADA

Xpresspost

TO

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

RTS
RAE 1

TE + $

/472 0984 0330 N° DE REPÉRAGE

DIA/AFL 2025-11-21

Enveloppe issue de sources responsables
FSC® C017586

33 CA N° DE REPÉRAGE

Signature on deli.
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Made from 100% recycled content. Product is 100% recyclable.

Composé à 100% de matières recyclées. Produit recyclable à 100%.

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (22-10)

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et v… l'endroit spécifié. Conservez le n… situé sur la languette détach…
2) Déposez dans une bo… bureau de poste … Postes Canad…

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA
Xpresspost™ REGIONAL / RÉGIONAL

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom: Gary E. Braunwarth

Address/Adresse:

<personal information removed>

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom: Beacon AI Centers - Indus

Address/Adresse:

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

33-086-648 (08-04)

Amount Due / Montant dû
$
Initials/ Initiales

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Incomplete Address / Adresse incomplète
- Moved/ Unknown / Déménagé/ Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

RTS
RAE
1

…RD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7474 3400 4415 N° DE REPÉRAGE

Reason: Unknown | Raison: Inconnu

DIA/ARL 2025 11 21

TRACKING NUMBER PG 743 400 441 CA N° DE REPÉRAGE

100% recyclable.

Composé à 100% de matières recyclées. Produit recyclable à 100%.

Signature on delivery? Purchase and apply signature sticker here.

Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Size - Small
Format - Petit

260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

Envelope
Size - Small 260 x 159 mm
Maximum weight - 500 g
Maximum thickness - 15 mm

How to use prepaid envelopes:
1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Review Terms and Conditions at canadapost.ca/generalterms.

Enveloppe
Format - Petit 260 x 159 m
Poids maximal - 500 g
Épaisseur maxima

Comment utiliser
1) Indiquez l'a… numéro
2) Dé…

…nservez le
…installation

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA

Xpresspost ™/MC

REGIONA…
RÉGION…

RTS
RAE
1

DO NOT COVER THE …
NE PAS COUVRIR LE CODE À

33-086-648 (08-04)

$ Amount Due / Montant dû
Initials/ Initiales

CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

To | À :

Name/Nom
James Gordon Thomas
Address/Adresse

<personal information removed>

City/Ville, Province, Postal Code/Code postal

Telephone No./N° de téléphone

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

From | De :

Name/Nom
Beacon AI Center
Address/Adresse

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client
Telephone No./N° de téléphone

TRACKING NUMBER 0980 7472 0984 0026 N° DE REPÉRAGE
Reason: Unknown | Raison: Inconnu

TRACKING NUMBER PG 720 984 002 CA N° DE REPÉRAGE

DIA/ARL 2025-11-21
responsible sources
Enveloppe issue de sources responsables
FSC® C017586

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

SIGNATURE REQUIRED
Apply here
Apposez-le ici
EXEMPLE DE SIGNATURE

Made from 100% recycled content. Product is 100% recyclable.

Composé à 100% de matières recyclées. Produit recyclable à 100%.

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (22-10)

PG 657 005 559 CA

Tracking Number
Numéro de repérage

0 63491 03803 7

Sender's Copy
Remove and Retain for Reference

Copie de l'expéditeur
Retirer et conserver pour consultation

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

Unclaimed / Non réclamé
No such Address / Adresse inexistante
Address Incomplete / Adresse incomplète
Moved/ Unknown / Déménagé / Inconnu
No such Post Office / Bureau inexistant
Refused / Refusé

PG 657 005 559 CA

Tracking Number
Numéro de repérage

Canada Post only
Postes Canada uniquement

CANADA POST / POSTES CANADA
Postage Paid / Port payé
Xpresspost

Xpresspost™/MC

REGIONAL
RÉGIONAL

1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRE

To | À :

Name/Nom

1288943 AB Ltd.

<personal information removed>

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRE

Telephone No./N° de téléphone

From | De :

Name/Nom

Beacon Indus AI Center

Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

Sender warrants that this item does not contain non-mailable matter. L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

How ...
1) Fill in t... specified ... peel off tab.
2) Deposit in a street ... Canada Post facility.
Review Terms and Conditio... generalterms.

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

571847

59 mm

...payées
...et v... ...sse
...e numéro de repérage sur ...

...aux lettres publique, à un bureau
...ation désign... ...Canada
...nditions à l'adresse
...nditions générales.

NOV 20 2025
Rimbey AB
T0C 2J0

TRACKING NUMBER PG 657 005 559 CA N° DE REPÉRAGE

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

FSC www.fsc.org
MIX/MIXTE
Envelope from responsible sources
Enveloppe issue de sources responsables
FSC® C004212

Made from 80% recycled content.
Product is 100% recyclable.

Composé à 80% de matières recyclées.
Produit recyclable à 100%.

22
(22-02)
142200

PULL HERE
TIREZ ICI

PG 657 005 562 CA

Tracking Number
Numéro de repérage

0 63491 03803 7

Sender's Copy
Remove and Retain for Reference

Copie de l'expéditeur
Retirer et conserver pour consultation

Xpresspost™/MC

REGIONAL
RÉGIONAL

DO NOT COVER TI
NE PAS COUVRIR LE

To | À :

Name/Nom
1890985 AB Ltd

Address/Adresse

<personal information removed>

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRE

Telephone No./N° de téléphone

From | De :

Name/Nom
Beacon Indus AI Center

Address/Adresse

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

Sender warrants that this item does not contain non-mailable matter. L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû $

Initials/ Initiales

33-086-648 (08-04)

Post only
Postes Canada uniquement

CANADA POSTES
POST CANADA
Postage Paid / Port payé
Xpresspost

Enveloppe
Format - Petit 260 x 159 mm
Poids maximal - 500 g
Épaisseur maximale - 15 mm

RTS
RAE
1

OMO

CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER
0980 7465 7005 5626
N° DE REPERAGE

Reason: Unknown | Raison: Inconnu

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

MIX/MIXTE
Envelope from responsible sources
Enveloppe issue de sources responsables
FSC® C004212

Made from 80% recycled content.
Product is 100% recyclable.

Composé à 80% de matières recyclées.
Produit recyclable à 100%.

(22-02)
142200

Athabasca T0C 2J0

5778

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post

Comment uti

1) Indic

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

RTS
RAE
1

CANADA POSTES / POST CANADA
Xpresspost™ REGIONAL / RÉGIONAL

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
H.A. Creighton Antliff

Address/Adresse
<personal information removed>

T0C 0M0
CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7473 7590 6199 N° DE REPÉRAGE

Reason: Unknown | Raison: Inconnu

DM/ARL 2025-11-21

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

TRACKING NUMBER PG 737 590 619 CA N° DE REPÉRAGE

From | De :

Name/Nom
Beacon Heartland AI Center

Address/Adresse

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client

Telephone No./N° de téléphone

Signature on delivery? Purchase and apply signature sticker here.
Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

Composé à 100% de matières recyclées.
Produit recyclable à 100%.

Size - Small
Format - Petit

260 x 159 mm
10.2 x 6.2 in/po

142200 (24-01)

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adre… et votre adresse à l'endroit sp… situé s… …éro de repérage
2) D… …blique, à un …gnée de…

Return to Sender
Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA
Xpresspost™ REGIC… / RÉC…

DO NOT CO… / NE PAS COUVRIR LE…

33-086-648 (08-04)

$ Amount Due / Montant dû
Initials/ Initiales

RTS
RAE
1

To | À :

Name/Nom
Richard + Carmen Feddema
Address/Adresse
RR#5

<personal information removed>

City/Ville, Province, Postal Code/Code postal

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphone

From | De :

Name/Nom
Beacon AI Centers - Indus
Address/Adresse
P. Mcharchlow
RR2 Bluffton AB
City/Ville, Province, Postal Code/Code postal
TOCOMO

FOR RTS BILLING / POUR FACTURATION RAE
Customer No./N° du client
Telephone No./N° de téléphone

CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7474 3400 6310 N° DE REPERAGE
DIA/ARL 2025-11-21

Reason: Unknown | Raison: Inconnu

TRACKING NUMBER PG 743 400 631 CA N° DE REPÉRAGE

Signature on delivery? Purchase and apply signature sticker here.
Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

100% recyclable.
Composé à 100% de matières recyclées. Produit recyclable à 100%.

Size - Small
Format - Petit
260 x 159 mm
10.2 x 6.2 in/po

142200 (24-01)

Invalid Mailing Address

PULL HERE
TIREZ ICI

0 63491 03803 7

Envelope
Size - Small 260 x 159 mm
Maximum weight - 500 g
Maximum thickness - 15 mm

How to use prepaid envelopes:
1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Review Terms and Conditions at canadapost.ca/generalterms.

Envelo
Format
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Comment u
1) Indiquez
numéro d
2) Déposez
désignée
Reportez-vo

Return to Sender
Renvoi à l'expéditeur

This item is being returned because: / **Envoi retourné pour la raison suivante :**

Unclaimed	☐	Non réclamé
No such Address	☒	Adresse inexistante
Address Incomplete	☐	Adresse incomplète
Moved/ Unknown	☐	Déménagé / Inconnu
No such Post Office	☐	Bureau inexistant
Refused	☐	Refusé

Amount Due / Montant dû	Initials/ Initiales
$	

33-086-648 (08-04)

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA
Xpresspost™ REGIONAL RÉGIONAL 1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Gurveer Singh Randev

<personal information removed>

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

From | De :

Name/Nom
Beacon Indus AI Center

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

Telepl

FOR RTS BILLING / POUR FACTURATIC
Customer No./N° du client

Telephone No./N° de téléphone

Xpresspost
T0C 0

RTS
RAE 1

$
TE + $

TRACKING NUMBER 0980 7472 0982 1797 N° DE REPERAGE
DIA/ARL 2025 11 25

Reason Unknown | Raison Inconnu

TRACKING NUMBER PG 720 982 179 CA N° DE REPERAGE
DIA/ARL 2025 11 24

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objet inadmissible.

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles. 33-086-742 (23-01)

FSC
www.fsc.org
MIX
Envelope from responsible sources
Enveloppe issue de sources responsables
SC® C017586

Made from 100% recycled content. Product is 100% recyclable.

Composé à 100% de matières recyclées. Produit recyclable à 100%.

142200 (22-10)

PULL HERE
TIREZ ICI

0 63491 03803 7

Envelope
Size - Small 260 x 159 mm
Maximum weight - 500 g
Maximum thickness - 15 mm

How to use prepaid envelopes:
1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Review Terms and Conditions at canadapost.ca/generalterms.

Enveloppe
Format - Petit 260 x 159 mm
Poids maximal - 500 g
Épaisseur maximale - 15 mm

Comment utiliser les enveloppes prépayées :
1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé [illegible] détachable.
2) Déposez dans une boîte [illegible] désignée de Postes Can[illegible]

Reportez-vous aux condi[illegible]

CANADA POST / POSTES CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POST / POSTES CANADA
Xpresspost™ REGIONAL / RÉGIONAL

DO NOT COVER THE BAR[illegible]
NE PAS COUVRIR LE CODE À B[illegible]

To | À :

Name/Nom
Jennifer-Joy Harriman ?e

Address/Adresse
<personal information removed>

City/Ville, Province, Postal Code/Code postal

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

From | De :

Name/Nom
Beacon Indus AI Center

Address/Adresse
Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

RT
Unkn

CANADA POST / POSTES CANADA
Xpresspost™
T0C 0M0
TRACKING NUMBER
Reason: Unknown | Raison: Inc

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

Unclaimed	☐	Non réclamé
No such Address	☐	Adresse inexistante
Address Incomplete	☐	Adresse incomplète
Moved/ Unknown	☒	Déménagé / Inconnu
No such Post Office	☐	Bureau inexistant
Refused	☐	Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

N° DE REPERAGE
DIA/ARL
2025-11-25

Telephone No./N° de téléphone

TRACKING NUMBER

E REPÉRAGE

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

Signature on delivery? Purchase and apply signature sticker here.

Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

1

NOV 20 2025
Brandon AB
T0C 0J0

FSC
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MIX
Envelope from responsible sources
Enveloppe issue de sources responsables
FSC® C017586

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Composé à 100% de matières recyclées. Produit recyclable à 100%.

142200 (22-10)

Xpresspost™ REGIONAL RÉGIONAL

DO NOT COVER THE
NE PAS COUVRIR LE COD

To | À :

Name/Nom

Harkanwal Singh Brar

Address/Adresse

<personal information removed>

Amount Due Montant dû

$

33-086-648 (08-04)

Initials/ Initiales

No such Address

Address Incomplete

Moved/ Unknown

No such Post Office

Refused

Non réclamé

Adresse inexistante

Adresse incomplète

Déménagé / Inconnu

Bureau inexistant

Refusé

RTS RAE 1

FSC www.fsc.org MIX Envelope | Supporting responsible forestry

NO CARD FOR PICKUP + $
ANNONCER PAR CARTE + $

TRACKING NUMBER 0980 7473 8059 3759 N° DE REPERAGE

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphon

From | De :

<personal information removed>

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

Signature on delivery? Purchase and apply signature sticker here.

Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Size - Small
Format - Petit

260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:

CANADA POST POSTES CANADA
Postage Paid Port payé
Xpresspost

PULL HERE
TIREZ ICI

RTS/Moved

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres publique, à un bureau de poste ou à une installation désignée de Postes Canada.

CANADA POST / POSTES CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POST / POSTES CANADA
Xpresspost™ REGIONAL / RÉGIONAL 1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
1245881 AB Ltd.
Address/Adresse

<personal information removed>

City/Ville, Province, Postal Code/Code postal

Telephone No./N° de téléphone

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

From | De :

Name/Nom
Beacon Heartland AI Center
Address/Adresse



Paul McLauchlin
RR 2
Bluffton AB T0C 0M0
City

FOR RTS BILLING / POUR FACTURATION R
Customer No./N° du client

Telephone No./N° de téléphone

Return to Sender / Renvoi à l'expéditeur

This item is being returned because: / Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

74 CA

RTS
RAE 1

UP + $
CARTE + $

TRACKING NUMBE
Reason: Unknown | Rais
N° DE REPERAGE

Signature on delivery? Purchase and apply signature sticker here.

Signature à la livraison? Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

Size - Small
Format - Petit
260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)

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NOV 2 0

Rimbey AB

15

PULL HERE
TIREZ ICI

0 63491 03803 7

How to use:

1) Fill in the receiver's address and your address where specified. Retain the tracking number located on the peel-off tab.
2) Deposit in a street letter box, a post office or a designated Canada Post facility.

Comment utiliser :

1) Indiquez l'adresse du destinataire et votre adresse à l'endroit spécifié. Conservez le numéro de repérage situé sur la languette détachable.
2) Déposez dans une boîte aux lettres publique, à un bureau de poste ou à une installation désignée de Postes Canada.

CANADA POSTES / POST CANADA
Postage Paid / Port payé
Xpresspost

PULL HERE
TIREZ ICI

CANADA POSTES / POST CANADA
Xpresspost™ REGIONAL / RÉGIONAL

1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

To | À :

Name/Nom
Jeffery Kerridge

RTS
Not at this address

<personal information removed>

Telephone No./N° de téléphone

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

From | De :

Name/Nom
Beacon AI Centers - Indus

Address/Adresse

City

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATION RAE

Customer No./N° du client

Telephone No./N° de téléphone

CANADA POSTES / POST CANADA
Xpresspost™

1

TRACKING NUMBER PG 743 400 455 CA N° DE REPÉRAGE

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objet inadmissible.
MPED-IRPAS1HPC6 10.9.0025-11-27 08:59:31

TRACKING NUMBER PG 743 400 455 CA N° DE REPÉRAGE

Composé à 100% de matières recyclées.
Produit recyclable à 100%.

Signature on delivery?
Purchase and apply signature sticker here.

Signature à la livraison?
Achetez l'autocollant de signature et apposez-le ici.

Apply here
Apposez-le ici

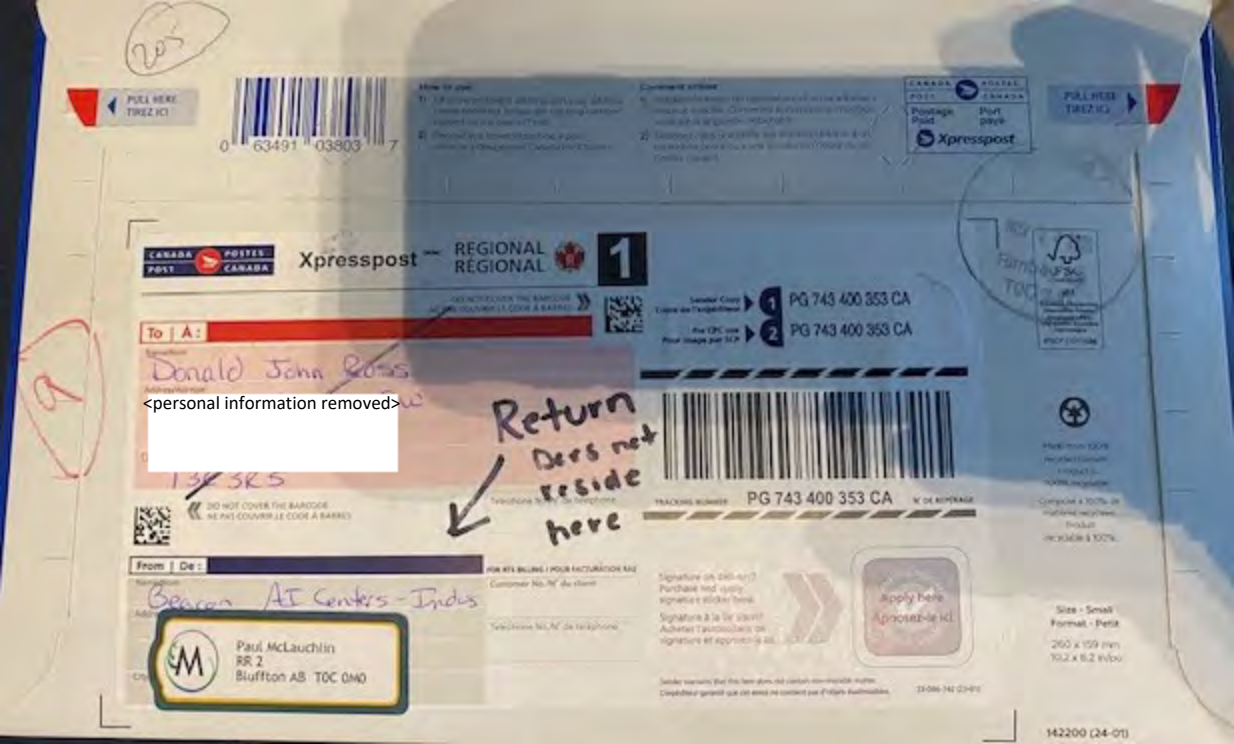
Size - Small
Format - Petit

260 x 159 mm
10.2 x 6.2 in/po

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

142200 (24-01)


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Beacon AI Centers - Indus
Paul McLauchlin
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Bluffton AB T0C 0M0
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260 x 159 mm
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142200 (24-01)

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TIREZ ICI

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Postes Canada.

Return to Sender
Renvoi à l'expéditeur

This item is being returned because:
Envoi retourné pour la raison suivante :

- Unclaimed / Non réclamé
- No such Address / Adresse inexistante — [x]
- Address Incomplete / Adresse incomplète
- Moved/ Unknown / Déménagé / Inconnu
- No such Post Office / Bureau inexistant
- Refused / Refusé

Amount Due / Montant dû
$
Initials/ Initiales

33-086-648 (08-04)

HERE
Z ICI

CANADA POSTES POST CANADA

Xpresspost™ REGIONAL RÉGIONAL 1

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Sender Copy / Copie de l'expéditeur 1 PG 729 191 478 CA
For CPC use / Pour usage par SCP 2 PG 729 191 478 CA

FSC www.fsc.org MIX
Envelope | Supporting responsible forestry
Enveloppe | Pour une gestion forestière responsable
FSC® C017586

To | À :

Name/Nom
Canadian Pacific Railway Company

<personal information removed>

T2P 3C5

DO NOT COVER THE BARCODE
NE PAS COUVRIR LE CODE À BARRES

Telephone No./N° de téléphon

From | De :

Name/Nom
Beacon Heartland AI Center

Paul McLauchlin
RR 2
Bluffton AB T0C 0M0

FOR RTS BILLING / POUR FACTURATI
Customer No./N° du client

Telephone No./N° de téléphon

CANADA POSTES POST CANADA

1

XPRESSPOST™

T2P 3C5

TRACKING NUMBER PG 729 191 478 CA N° DE REPERAGE

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objet inadmissible.

DIA/ARL 2025-11-25

Achetez l'autocollant de ... signature et apposez-le ici.

Sender warrants that this item does not contain non-mailable matter.
L'expéditeur garantit que cet envoi ne contient pas d'objets inadmissibles.

33-086-742 (23-01)

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260 x 159 mm
10.2 x 6.2 in/po

142200 (24-01)

Appendix C:

Blank Record of Contact

BEACON AI CENTERS

Indus AI Hub and Gas-Powered Electrical Generation Facility
Record of Communication Form (ROC)

Activity Information		
ROC Form Prepared By: Name:	**Date of Communication:** Date:	**Type of Communication:** (i.e. Phone, Email, Letter)

Participant Information	
Name:	**Contact:**

Question(s), Comment(s), Issue(s), Concern(s)

Follow Up Required?		
Yes / No	Who will follow up? **Name:**	Follow up date:

Appendix D:

Full Engagement Summary

1 Contents

1 Occupants, residents, leaseholders, landowners and interest holders within 800 metres 2

2 Occupants, residents, leaseholders, landowners and interest holders within 2000 metres 13

3 Local Municipalities 58

4 Additional Contacts 59

5 Indigenous Communities 60

1 Occupants, residents, leaseholders, landowners and interest holders within 800 metres

1997008 ALBERTA LTD.

Lands:

LSD	Land Title #
NE-10-23-28-W04M	161300126

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1997008 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
1997008 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

2443443 ALBERTA LTD.

Lands:

LSD	Land Title #
NE-10-23-28-W04M	221264415

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
2443443 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
2443443 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

CANADIAN PACIFIC RAILWAY COMPANY now Canadian Pacific Kansas City Ltd.

Lands:

LSD	Land Title #
NW-03-23-28-W04M	111273808

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CANADIAN PACIFIC RAILWAY COMPANY	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
Canadian Pacific Kansas City Ltd.	December 15, 2025	Email	Paul McLauchlin	Project Notification Package resent via email.
Canadian Pacific Kansas City Ltd.	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

CJ PIPE & SUPPLY CO. LTD

Lands:

LSD	Land Title #
NE-10-23-28-W04M	161296791

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CJ PIPE & SUPPLY CO. LTD	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CJ PIPE & SUPPLY CO. LTD	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

GOWDY FARMS LTD.
Lands:

LSD	Land Title #
SW-12-23-28-W04M	921262990+1
NW-12-23-28-W04M	124 G 208
NW-01-23-28-W04M	151152369+1

Interest Summary: Attended Open House
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GOWDY FARMS LTD.	November 20, 2025	Email	Paul McLauchlin	Project Notification Package sent via email read receipt.
GOWDY FARMS LTD.	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent email.

SIMPSON RANCHING LIMITED.
Lands:

LSD	Land Title #
N-03-23-28-W04M	111191167
NE-10-23-28-W04M	031 188037
SE-10-23-28-W04M	031 137465

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
SIMPSON RANCHING LIMITED.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
SIMPSON RANCHING LIMITED	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

BALDEV RAJ JONEJA

Lands:

LSD	Land Title #
SE-15-23-28-W04M	051 064636

Interest Summary: No response received

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
BALDEV RAJ JONEJA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
BALDEV RAJ JONEJA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

BRADLEY J COLWELL

Lands:

LSD	Land Title #
NE-02-23-28-W04M	241070671

Interest Summary: No response received

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
BRADLEY J COLWELL	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
BRADLEY J COLWELL	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

CURT JANZEN & MICHELLE JANZEN

Lands:

LSD	Land Title #
NE-10-23-28-W04M	191089027

Interest Summary: No response received

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CURT JANZEN & MICHELLE JANZEN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CURT JANZEN & MICHELLE JANZEN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

DALE MCRAE

Lands:

LSD	Land Title #
NE-11-23-28-W04M	221029760
NE-11-23-28-W04M	171269440

Interest Summary: No response received

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DALE MCRAE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DALE MCRAE	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

DONNA M COURT & ANDREW T COURT

Lands:

LSD	Land Title #
SW-12-23-28-W04M	951133087

Interest Summary: Attended Open House.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DONNA M COURT & ANDREW T COURT	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DONNA M COURT & ANDREW T COURT	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

EDWARD M FOLEY

Lands:

LSD	Land Title #
NE-03-23-28-W04M	161264425

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
EDWARD M FOLEY	November 20, 2025	Mail US Postage	Paul McLauchlin	Project Notification Package Sent via Mail US Postage.
EDWARD M FOLEY	December 19, 2025	Mail US Postage	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via US Mail.

EDWARD M FOLEY & MARJORIE F BOYLES C/O HANSON ASSOCIATES EXECUTORS FOR EDWARD H FOLEY

Lands:

LSD	Land Title #
NE-03-23-28-W04M	161264425

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
EDWARD M FOLEY & MARJORIE F BOYLES	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via tracked mail.
EDWARD M FOLEY & MARJORIE F BOYLES	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

H A CREIGHTON ANTLIFF

Lands:

LSD	Land Title #
NW-12-23-28-W04M	931102384

Interest Summary: Returned mail, call attempted to landowner.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
H A CREIGHTON ANTLIFF	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned.
H A CREIGHTON ANTLIFF	December 16, 2025	Phone Call	Paul McLauchlin	Phone number obtained by name search. Call attempted to landowner to obtain updated address or email.

JOHN S ALLEN

Lands:

LSD	Land Title #
NW-02-23-28-W04M	211233186

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JOHN S ALLEN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JOHN S ALLEN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

JUDITH DIANE COLWELL TAYLOR

Lands:

LSD	Land Title #
NE-02-23-28-W04M	241070671

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JUDITH DIANE COLWELL TAYLOR	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JUDITH DIANE COLWELL TAYLOR	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

KATHERINE FOLEY LIENTZ

Lands:

LSD	Land Title #
NE-03-23-28-W04M	161264425

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
KATHERINE FOLEY LIENTZ	November 20, 2025	Mail US Postage	Paul McLauchlin	Project Notification Package Sent via Mail US Postage.
JUDITH DIANE COLWELL TAYLOR	December 19, 2025	Mail US Postage	Paul McLauchlin	Project Follow-up letter “What We Heard” via Mail US Postage.

KEVIN BOSCHEE & NICOLE BOSCHEE

Lands:

LSD	Land Title #
NE-10-23-28-W04M	191089027

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
KEVIN BOSCHEE & NICOLE BOSCHEE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
KEVIN BOSCHEE & NICOLE BOSCHEE	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

MARJORIE FOLEY BOYLES

Lands:

LSD	Land Title #
NE-03-23-28-W04M	161264425

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
MARJORIE FOLEY BOYLES	November 20, 2025	Mail US Postage	Paul McLauchlin	Project Notification Package Sent via Mail US Postage.
MARJORIE FOLEY BOYLES	December 19, 2025	Mail US Postage	Paul McLauchlin	Project Follow-up letter “What We Heard” via Mail US Postage.

PATRICK MURRAY COLWELL

Lands:

LSD	Land Title #
NE-02-23-28-W04M	241070671

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
PATRICK MURRAY COLWELL	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
PATRICK MURRAY COLWELL	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

PETER C ALLEN

Lands:

LSD	Land Title #
NE-02-23-28-W04M	241070671
NW-02-23-28-W04M	211233186

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
PETER C ALLEN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
PETER C ALLEN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

ROBERT B ALLEN

Lands:

LSD	Land Title #
NW-02-23-28-W04M	211233186

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ROBERT B ALLEN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
ROBERT B ALLEN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

2 Occupants, residents, leaseholders, landowners and interest holders within 2000 metres

DOREEN GOWDY ANTLIFF C/O Estate Executor

Lands:

LSD	Land Title #
SE-23-23-28-W04M	821010189 A
SE-13-23-28-W04M	811168615

LSD	Land Title #
NE-13-23-28-W04M	971301914
NW-13-23-28-W04M	971301951

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DOREEN GOWDY ANTLIFF *C/O Estate Executor*	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DOREEN GOWDY ANTLIFF *C/O Estate Executor*	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

ALTALINK MANAGEMENT LTD

Lands:

LSD	Land Title #
SW-16-23-28-W04M	021207824 +5
SW-15-23-28-W04M	141266784 +2

LSD	Land Title #
NW-15-23-28-W04M	141266784
NE-15-23-28-W04M	141266784 +1

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ALTALINK MANAGEMENT LTD	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
ALTALINK MANAGEMENT LTD	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" sent via email.



SHARON L EDWARDS & THOMAS WILLIAM SOTHAM

Lands:

LSD	Land Title #
SW-23-23-28-W04M	031 420298

Interest Summary: Returned Mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
SHARON L EDWARDS & THOMAS WILLIAM SOTHAM	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
SHARON L EDWARDS & THOMAS WILLIAM SOTHAM	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail

2065256 ALBERTA LTD.

Lands:

LSD	Land Title #
SW-23-23-28-W04M	171225460

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
2065256 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package sent via tracked mail.
2065256 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail

ANTONIO FERREIRA & MARIA FERREIRA

Lands:

LSD	Land Title #
SW-23-23-28-W04M	131239717

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ANTONIO FERREIRA & MARIA FERREIRA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
ANTONIO FERREIRA & MARIA FERREIRA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail

DWIGHT LAPEARE & BEVERLEY LAPEARE & TIMOTHY VALKENBURG & NICOLE VALKENBURG

Lands:

LSD	Land Title #
SW-23-23-28-W04M	231324041

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DWIGHT LAPEARE & BEVERLEY LAPEARE & TIMOTHY VALKENBURG & NICOLE VALKENBURG	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DWIGHT LAPEARE & BEVERLEY LAPEARE & TIMOTHY VALKENBURG & NICOLE VALKENBURG		Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail

NOOR ALI KHIDRI

Lands:

LSD	Land Title #
SW-23-23-28-W04M	211137518

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
NOOR ALI KHIDRI	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
NOOR ALI KHIDRI	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

BALDEV RAJ JONEJA

Lands:

LSD	Land Title #
SW-24-23-28-W04M	51465829
NE-34-22-28-W04M	051 489596
SW-15-23-28-W04M	151119595

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
BALDEV RAJ JONEJA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
BALDEV RAJ JONEJA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

1728193 ALBERTA LTD

Lands:

LSD	Land Title #
SE-24-23-28-W04M	221103657

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1728193 ALBERTA LTD	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
1728193 ALBERTA LTD	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

RICHARD FEDDEMA & CARMEN FEDDEMA

Lands:

LSD	Land Title #
SE-22-23-28-W04M	001 030513

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
RICHARD FEDDEMA & CARMEN FEDDEMA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
RICHARD FEDDEMA & CARMEN FEDDEMA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

2527285 ALBERTA INC

Lands:

LSD	Land Title #
SE-22-23-28-W04M	231315266

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
2527285 ALBERTA INC	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
2527285 ALBERTA INC	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

CRUZ CARRIERS INC

Lands:

LSD	Land Title #
SW-22-23-28-W04M	251058580

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CRUZ CARRIERS INC	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CRUZ CARRIERS INC	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

ALAN FARMS LTD

Lands:

LSD	Land Title #
SW-22-23-28-W04M	081 470472
NE-33-22-28-W04M	231248442

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ALAN FARMS LTD	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
ALAN FARMS LTD	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

DUGDALE RANCHES LTD.

Lands:

LSD	Land Title #
NE-33-22-28-W04M	231248442
SE-02-23-28-W04M	251 272 549

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DUGDALE RANCHES LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DUGDALE RANCHES LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

DONALD JOHN ROSS

Lands:

LSD	Land Title #
NW-18-23-27-W04M	001 056024

Interest Summary: Returned mail, address unknown.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DONALD JOHN ROSS	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address unknown.

CHRISTINE DOT MCKINNON

Lands:

LSD	Land Title #
NW-18-23-27-W04M	001 056024

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CHRISTINE DOT MCKINNON	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CHRISTINE DOT MCKINNON	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

JANET ELAINE KYLE

Lands:

LSD	Land Title #
NW-18-23-27-W04M	141042351 +1
SW-18-23-27-W04M	141042351
NE-12-23-28-W04M	141042352

Interest Summary: Attended Open House, provided email.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JANET ELAINE KYLE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JANET ELAINE KYLE	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Email.

VANESSA LEE STEELE

Lands:

LSD	Land Title #
NW-18-23-27-W04M	141042351 +1
SW-18-23-27-W04M	141042351
NE-12-23-28-W04M	141042352

Interest Summary: Attended Open House

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
VANESSA LEE STEELE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
VANESSA LEE STEELE	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Email.

BORSBOOM FARMS LTD

Lands:

LSD	Land Title #
SE-12-23-28-W04M	241139201

Interest Summary: Attended Open House, email provided.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
BORSBOOM FARMS LTD	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
BORSBOOM FARMS LTD	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Email

JANICE ANN HILTON & CHRISTOPHER JOHN DE LA MARE

Lands:

LSD	Land Title #
NW-07-23-27-W04M	241267161

Interest Summary:

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JANICE ANN HILTON & CHRISTOPHER JOHN DE LA MARE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JANICE ANN HILTON & CHRISTOPHER JOHN DE LA MARE	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

JOSHUA POFFENROTH AND JOCELYN POFFENROTH

Lands:

LSD	Land Title #
SW-07-23-27-W04M	251122097

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JOSHUA POFFENROTH AND JOCELYN POFFENROTH	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JOSHUA POFFENROTH AND JOCELYN POFFENROTH	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

ARNOLDUS F M HEUVER & JOHANNA M G HEUVER

Lands:

LSD	Land Title #
SW-07-23-27-W04M	991148338

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ARNOLDUS F M HEUVER & JOHANNA M G HEUVER	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned. Address updated
ARNOLDUS F M HEUVER & JOHANNA M G HEUVER	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

GOWDY FARMS LTD.

Lands:

LSD	Land Title #
NE-01-23-28-W04M	151152369+1
SE-01-23-28-W04M	151152369+1

LSD	Land Title #
SW-01-23-28-W04M	151152369+1
NW-01-23-28-W04M	151152369+1

Interest Summary: Attended Open House.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GOWDY FARMS LTD.	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via email read receipt.
GOWDY FARMS LTD	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

EDWIN L PATTON & JOAN PATTON

Lands:

LSD	Land Title #
NW-06-23-27-W04M	051 310902

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
EDWIN L PATTON & JOAN PATTON	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
EDWIN L PATTON & JOAN PATTON	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail.

GARRY EDWARD BRAUNWARTH

Lands:

LSD	Land Title #
SW-06-23-27-W04M	151152369+2

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GARRY EDWARD BRAUNWARTH	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
GARRY EDWARD BRAUNWARTH	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via Tracked Mail

JEFFERY KERRIDGE

Lands:

LSD	Land Title #
SE-02-23-28-W04M	171088159

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JEFFERY KERRIDGE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
JEFFERY KERRIDGE	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

PAUL ANDREW ARIS & MICHELLE DOMINIQUE-ARIS

Lands:

LSD	Land Title #
SE-02-23-28-W04M	41204357

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
PAUL ANDREW ARIS & MICHELLE DOMINIQUE-ARIS	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
PAUL ANDREW ARIS & MICHELLE DOMINIQUE-ARIS	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

CANADIAN PACIFIC RAILWAY COMPANY – Now Canadian Pacific Kansas City Ltd.

Lands:

LSD	Land Title #
SW-02-23-28-W04M	111273804+1
SW-02-23-28-W04M	AHMK2160013
NE-04-23-28-W04M	AHMK2160012-01

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CANADIAN PACIFIC RAILWAY COMPANY	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned. Address updated.
Canadian Pacific Kansas City Ltd.	December 15, 2025	Email	Paul McLauchlin	Project Notification Package resent via email.
Canadian Pacific Kansas City Ltd.	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

SHEILA (BUCKLEY) SCHNEIDER

Lands:

LSD	Land Title #
SW-02-23-28-W04M	251 265 204 +1
SW-02-23-28-W04M	251 265 204

Interest Summary: Attended Open House; email provided.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
SHEILA *(BUCKLEY) SCHNEIDER*	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
SHEILA *(BUCKLEY) SCHNEIDER*	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

DAVID SACCO & ANITA SACCO

Lands: Attended Open House; email provided.

LSD	Land Title #
NE-34-22-28-W04M	041 067010

Interest Summary: Attended Open House, provided email.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DAVID SACCO & ANITA SACCO	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DAVID SACCO & ANITA SACCO	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.



10-10 HOLDINGS LTD.

Lands:

LSD	Land Title #
NE-34-22-28-W04M	00 1060968

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
10-10 HOLDINGS LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
10-10 HOLDINGS LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

CAMILLE JUCO GRANDA & DAVID JOSHUA JUCO GRANDA

Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CAMILLE JUCO GRANDA & DAVID JOSHUA JUCO GRANDA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CAMILLE JUCO GRANDA & DAVID JOSHUA JUCO GRANDA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

CATHERINE CASTANEDA
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CATHERINE CASTANEDA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CATHERINE CASTANEDA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

1093961 ALBERTA LTD.
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1093961 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
1093961 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

1274770 ALBERTA LTD
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1274770 ALBERTA LTD	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
1274770 ALBERTA LTD	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

PRATIK SHAH & ANISHA SHAH-PATEL
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
PRATIK SHAH & ANISHA SHAH-PATEL	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
PRATIK SHAH & ANISHA SHAH-PATEL	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

SACHIN SHAH & RUJUTA PATEL

Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
SACHIN SHAH & RUJUTA PATEL	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
SACHIN SHAH & RUJUTA PATEL	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

NASREEN MUHAMMAD EXECUTRIX FOR ABUL FAZAZ MUHAMMAD & NASREEN MUHAMMAD

Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
NASREEN MUHAMMAD, EXECUTRIX FOR ABUL FAZAZ MUHAMMAD & NASREEN MUHAMMAD	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
NASREEN MUHAMMAD, EXECUTRIX FOR ABUL FAZAZ MUHAMMAD & NASREEN MUHAMMAD	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

HARKANWAL SINGH BRAR
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: Returned mail, landowner called to update address or email. No return call.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
HARKANWAL SINGH BRAR	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Returned mail.
HARKANWAL SINGH BRAR	December 16, 2025	Phone call	Paul McLauchlin	Phone number found via name search. Phone call attempted to Landowner to update address or email.

LATIFA ABEDIN
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
LATIFA ABEDIN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
LATIFA ABEDIN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

LEONILA MALIG & AURELIO MALIG
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
LEONILA MALIG & AURELIO MALIG	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
LEONILA MALIG & AURELIO MALIG	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

LUZVIMINDA RIVERO
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
LUZVIMINDA RIVERO	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
LUZVIMINDA RIVERO	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

JAY HUYATID JUAREZ
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JAY HUYATID JUAREZ	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JAY HUYATID JUAREZ	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

JUNA JUAREZ GALAROSA
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JUNA JUAREZ GALAROSA	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JUNA JUAREZ GALAROSA	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

GLORIA ABAT
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GLORIA ABAT	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
GLORIA ABAT	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

AMELIA GOPEZ DAVID
Lands:

LSD	Land Title #
NW-34-22-28-W04M	251 283 002

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
AMELIA GOPEZ DAVID	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
AMELIA GOPEZ DAVID	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

GURVEER SINGH RANDEV

Lands:

LSD	Land Title #
NW-34-22-28-W04M	211047893

Interest Summary: Returned mail, email obtained.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GURVEER SINGH RANDEV	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, email obtained.
GURVEER SINGH RANDEV	December 12, 2025	Email	Paul McLauchlin	Notification package resent via email.
GURVEER SINGH RANDEV	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

DEEPAK SINGH SANDHU

Lands:

LSD	Land Title #
NW-34-22-28-W04M	211047893

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DEEPAK SINGH SANDHU	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
DEEPAK SINGH SANDHU	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

MANPREET NAHIL
Lands:

LSD	Land Title #
NW-34-22-28-W04M	211047893

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
MANPREET NAHIL	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
MANPREET NAHIL	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

SANDRA AMMANN
Lands:

LSD	Land Title #
NW-35-22-28-W04M	251 247 100 +2

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
SANDRA AMMANN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
SANDRA AMMANN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

WALTER KEMBLE
Lands:

LSD	Land Title #
NW-35-22-28-W04M	251 247 100 +2

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
WALTER KEMBLE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
WALTER KEMBLE	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

PATRICIA WARDLAW
Lands:

LSD	Land Title #
NW-35-22-28-W04M	251 247 100 +2

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
PATRICIA WARDLAW	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
PATRICIA WARDLAW	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

CONNIE CHALLICE

Lands:

LSD	Land Title #
NW-35-22-28-W04M	231122390

Interest Summary: Attended Open House, provided email.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CONNIE CHALLICE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
CONNIE CHALLICE	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email

EDWARD M FOLEY & MARJORIE F BOYLES C/O HANSON ASSOCIATES EXECUTORS FOR EDWARD H FOLEY

Lands:

LSD	Land Title #
SE-03-23-28-W04M	161264425

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
EDWARD M FOLEY & MARJORIE F BOYLES C/O HANSON ASSOCIATES EXECUTORS FOR EDWARD H FOLEY	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
EDWARD M FOLEY & MARJORIE F BOYLES C/O HANSON ASSOCIATES EXECUTORS FOR EDWARD H FOLEY	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

EDWARD M FOLEY
Lands:

LSD	Land Title #
SE-03-23-28-W04M	161264425

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
EDWARD M FOLEY	November 20, 2025	Mail US Postage	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
EDWARD M FOLEY	December 19, 2025	Mail US Postage	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via us mail.

KATHERINE FOLEY LIENTZ
Lands:

LSD	Land Title #
SE-03-23-28-W04M	161264425

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
KATHERINE FOLEY LIENTZ	November 20, 2025	Mail US Postage	Paul McLauchlin	Project Notification Package Sent via Mail US Postage .
KATHERINE FOLEY LIENTZ	December 19, 2025	Mail US Postage	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via us mail.

MARJORIE FOLEY BOYLES
Lands:

LSD	Land Title #
SE-03-23-28-W04M	161264425

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
MARJORIE FOLEY BOYLES	November 20, 2025	Mail US Postage	Paul McLauchlin	Project Notification Package Sent via Mail US Postage.
MARJORIE FOLEY BOYLES	December 19, 2025	Mail US Postage	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via us mail.

MARBLEHEAD LAND CORPORATION.
Lands:

LSD	Land Title #
NW & SW-03-23-28-W04M	251238601

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
MARBLEHEAD LAND CORPORATION.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
MARBLEHEAD LAND CORPORATION.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

JAMES ROBERT HARRIMAN & PATRICIA HARRIMAN
Lands:

LSD	**Land Title #**
NW & SW-03-23-28-W04M	251238601

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JAMES ROBERT HARRIMAN & PATRICIA HARRIMAN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JAMES ROBERT HARRIMAN & PATRICIA HARRIMAN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

JANINE HARRIMAN
Lands:

LSD	**Land Title #**
NW & SW-03-23-28-W04M	251238601

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JANINE HARRIMAN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JANINE HARRIMAN	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

MARY DOREEN THOMAS

Lands:

LSD	Land Title #
NW & SW-03-23-28-W04M	251238601

Interest Summary: Returned mail, address unknown.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
MARY DOREEN THOMAS	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address unknown.

JAMES GORDON THOMAS

Lands:

LSD	Land Title #
NW & SW-03-23-28-W04M	251238601

Interest Summary: Returned Mail, address unknown.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JAMES GORDON THOMAS	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address unknown.

JENNIFER JOY HARRIMAN

Lands:

LSD	Land Title #
NW & SW-03-23-28-W04M	251238601

Interest Summary: Returned Mail, address unknown.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JENNIFER JOY HARRIMAN	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address unknown.

GOLDEN WEST BROADCASTING LTD.

Lands:

LSD	Land Title #
SW-03-23-28-W04M	921229654

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GOLDEN WEST BROADCASTING LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
GOLDEN WEST BROADCASTING LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

ZAINABIA INC.
Lands:

LSD	Land Title #
NE-04-23-28-W04M	221233568

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ZAINABIA INC	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
ZAINABIA INC	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

834586 ALBERTA LTD. o/a SIMPSON RANCHING LIMITED
Lands:

LSD	Land Title #
SW-10-23-28-W04M	031 192585
NW-10-23-28-W04M	061 001760
SE-09-23-28-W04M	111191168+2
NE-09-23-28-W04M	791037066 A

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
834586 ALBERTA LTD. o/a SIMPSON RANCHING LIMITED	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
834586 ALBERTA LTD. o/a SIMPSON RANCHING LIMITED	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

1890985 ALBERTA LTD.

Lands:

LSD	Land Title #
SE-16-23-28-W04M	151279644
SE-16-23-28-W04M	151279644+1

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1890985 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated
1890985 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via Tracked Mail.

1288943 ALBERTA LTD.

Lands:

LSD	Land Title #
SE-16-23-28-W04M	131200430+2

Interest Summary: Returned mail, address updated.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1288943 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
1288943 ALBERTA LTD.	December 12, 2025	Email	Paul McLauchlin	Project Notification Package resent via email.
1288943 ALBERTA LTD.	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via email

1808164 ALBERTA LTD.
Lands:

LSD	Land Title #
SE-16-23-28-W04M	151119595+1

Interest Summary:
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1808164 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
1808164 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

2249324 ALBERTA LTD.
Lands:

LSD	Land Title #
SE-16-23-28-W04M	221177234
SE-16-23-28-W04M	201061883

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
2249324 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
2249324 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

CARMMA FUTURES LTD.
Lands:

LSD	Land Title #
SE-16-23-28-W04M	241239712

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
2249324 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
2249324 ALBERTA LTD.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

TIDEMER INVESTMENTS INC.
Lands:

LSD	Land Title #
NE-16-23-28-W04M	151002511

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
TIDEMER INVESTMENTS INC.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
TIDEMER INVESTMENTS INC.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

IPIG INC.
Lands:

LSD	Land Title #
SW-15-23-28-W04M	151240314

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
IPIG INC	November 20, 2025	Tracked Mai	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
IPIG INC.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

ELLYANNE P SINGER
Lands:

LSD	Land Title #
NW-15-23-28-W04M	961104667

Interest Summary: Returned mail, address unknown.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ELLYANNE P SINGER	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address unknown.

2628239 ALBERTA LTD.
Lands:

LSD	Land Title #
NW-15-23-28-W04M	251052313

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
2628239 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
2628239 ALBERTA LTD	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

DWIGHT P LA PEARE & BEVERLEY A LA PEARE
Lands:

LSD	Land Title #
NW-15-23-28-W04M	881216227

Interest Summary: Returned mail, address updated.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
DWIGHT P LA PEARE & BEVERLEY A LA PEARE	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
DWIGHT P LA PEARE & BEVERLEY A LA PEARE	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

JESSICA FERREIRA & FLAVIO GOMES
Lands:

LSD	Land Title #
NE-14-23-28-W04M	241152598
NE-14-23-28-W04M	241242060

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JESSICA FERREIRA & FLAVIO GOMES	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JESSICA FERREIRA & FLAVIO GOMES	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

KENNETH JOHN SCHEMENAUER & PATRICIA LOUISE SCHEMENAUER
Lands:

LSD	Land Title #
NE-14-23-28-W04M	181148436+1

Interest Summary: Returned mail, address unknown.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
KENNETH JOHN SCHEMENAUER & PATRICIA LOUISE SCHEMENAUER	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address unknown.

HAROLD ARTHUR CREIGHTON ANTLIFF

Lands:

LSD	Land Title #
N-14-23-28-W04M	021205720 +1
NW-14-23-28-W04M	051 065430001

LSD	Land Title #
NW-14-23-28-W04M	051 065430

Interest Summary: Returned mail, attempted to call landowner to update address or email.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
HAROLD ARTHUR CREIGHTON ANTLIFF	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned.
HAROLD ARTHUR CREIGHTON ANTLIFF	December 16, 2025	Phone Call	Paul McLauchlin	Phone number obtained by name search. Call attempted to landowner to obtain updated address or email.

ARLA MAE HARMER

Lands:

LSD	Land Title #
N-14-23-28-W04M	021205720 +1
NW-14-23-28-W04M	051 065430001

LSD	Land Title #
NW-14-23-28-W04M	051 065430

Interest Summary: No response received.

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
ARLA MAE HARMER	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
ARLA MAE HARMER	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

PRIME LAND DEVELOPMENTS INC.
Lands:

LSD	Land Title #
NW-14-23-28-W04M	161000666
NW-14-23-28-W04M	161007075

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
PRIME LAND DEVELOPMENTS INC.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
PRIME LAND DEVELOPMENTS INC.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

AMENDEEP BASSI & PARMINDER BASSI
Lands:

LSD	Land Title #
NW-14-23-28-W04M	171249772

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
AMENDEEP BASSI & PARMINDER BASSI	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
AMENDEEP BASSI & PARMINDER BASSI	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via tracked mail.

1245881 ALBERTA LTD.

Lands:

LSD	Land Title #
NW-13-23-28-W04M	171020910

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
1245881 ALBERTA LTD.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
1245881 ALBERTA LTD.	December 12, 2025	Email	Paul McLauchlin	Notification package resent via email.
1245881 ALBERTA LTD.	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

NANCY GAIL GOWDY
Lands:

LSD	Land Title #
NW-13-23-28-W04M	02 1247588

Interest Summary: Returned mail, address updated.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
NANCY GAIL GOWDY	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail. Package returned, address updated.
NANCY GAIL GOWDY	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

JOHN W GOWDY & KATHLEEN J BRICKER

Lands:

LSD	Land Title #
NE-13-23-28-W04M	171016179
NE-13-23-28-W04M	171016174

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
JOHN W GOWDY & KATHLEEN J BRICKER	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
JOHN W GOWDY & KATHLEEN J BRICKER	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

G&M GLOBAL RESOURCES INC.
Lands:

LSD	Land Title #
NE-15-23-28-W04M	111165868

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
G&M GLOBAL RESOURCES INC.	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
G&M GLOBAL RESOURCES INC.	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

FRANKLIN TOME & IDALINA TOME
Lands:

LSD	Land Title #
NE-15-23-28-W04M	051 266538

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
FRANKLIN TOME & IDALINA TOME	November 20, 2025	Tracked Mail	Paul McLauchlin	Project Notification Package Sent via Tracked Mail.
FRANKLIN TOME & IDALINA TOME	December 19, 2025	Tracked Mail	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via tracked mail.

CMAC DEVELOPMENTS INC. c/o Cory Lynn Mcarthy, Owner
Lands:

LSD	Land Title #
NE-16-23-28-W04M	111315112

Interest Summary: No response received.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
CMAC DEVELOPMENTS INC. c/o Cory Lynn Mcarthy, Owner	December 12, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email.
CMAC DEVELOPMENTS INC. c/o Cory Lynn Mcarthy, Owner	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

GARY SUTHERLAND (FARMER)
Lands:

LSD	Land Title #
SE-04-23-28-W4	1310339660001

Interest Summary: Attempted to call landowner to obtain updated address or email.
Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
GARY SUTHERLAND (FARMER)	December 16, 2025	Phone call	Paul McLauchlin	Listed address is undeliverable. Phone number obtained by name search. Call attempted to landowner to obtain updated address or email.

3 Local Municipalities

Rocky View County

Interest Summary:

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
Rocky View County	November 20 2025	Email	Paul McLauchlin	Notification Package Sent with AUC Municipal Engagement Form attached.
Rocky View County	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

Wheatland County

Interest Summary:

Engagement Summary:

Stakeholder	Date	Type	Beacon Representative	Summary
Wheatland County	November 20 2025	Email	Paul McLauchlin	Notification Package Sent with AUC Municipal Engagement Form attached.
Wheatland County	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

4 Additional Contacts

The following additional contacts list was obtained from the Open House participants who provided emails and wished to be updated on the Project.

Stakeholder	Date	Type	Beacon Representative	Summary
Jason Reid	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.
Ryan McKenzie	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Bruce McIntosh	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Diane Enns	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Maggie Smart Miller	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Thomas and Gordon Shrake	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Beth Barrett	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Jenny Barrett	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Paul Schneider	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Richard Wagner	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email
Ken Friesz	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email

5 Indigenous Communities

1. Piikani Nation
2. Kainai Nation
3. Tsuut'ina Nation
4. Siksika First Nation
5. Stoney Nakoda First Nation – Bearspaw
6. Stoney Nakoda First Nation – Chiniki
7. Stoney Nakoda First Nation- Goodstoney
8. Metis Nation of Alberta Region 3
9. Métis Nation of Alberta - Otipemisiwak Métis Government
10. Métis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District

Piikani Nation

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Piikani Nation	Ira Provost	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Piikani Nation	Ira Provost	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email

Kainai Nation

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Kainai Nation	Mika Oka	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Kainai Nation	Mika Oka	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email

Tsuut'ina Nation

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Tsuut'ina Nation	Violet M. Meguinis	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Tsuut'ina Nation	Violet M. Meguinis	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email



Siksika Nation

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Siksika Nation	Jamie Spring Chief; cc: Cedric Solway	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Siksika Nation	Jamie Spring Chief; cc: Cedric Solway	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.
Siksika Nation	Jamie Spring Chief; cc: Cedric Solway	December 18, 2025	Email	Paul McLauchlin	CS requested to arrange a meeting in the new year.

Stoney Nakoda First Nation – Bearspaw

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Stoney Nakoda First Nation - Bearspaw	William (Bill) Snow	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Stoney Nakoda First Nation - Bearspaw	William (Bill) Snow	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

Stoney Nakoda First Nation – Chiniki

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Stoney Nakoda First Nation - Chiniki	William (Bill) Snow	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via email.
Stoney Nakoda First Nation - Chiniki	William (Bill) Snow	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email



Stoney Nakoda First Nation - Goodstoney

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Stoney Nakoda First Nation - Goodstoney	William (Bill) Snow	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Stoney Nakoda First Nation - Goodstoney	William (Bill) Snow	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email

Metis Nation of Alberta Region 3

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Metis Nation of Alberta Region 3	Judy Gentes, President	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Metis Nation of Alberta Region 3	Judy Gentes, President	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter "What We Heard" Sent via email.

Métis Nation of Alberta - Otipemisiwak Métis Government

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Métis Nation of Alberta - Otipemisiwak Métis Government	Andrea Sandmaier	November 20, 2025	Email	Paul McLauchlin	Project Notification Package Sent via Email read receipt.
Métis Nation of Alberta - Otipemisiwak Métis Government	Andrea Sandmaier	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via email

Metis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District

Interest Summary:

Engagement Summary:

Community	Community Representative	Date	Type	Beacon Representative	Summary
Metis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District	Amber Boyd, District Captain	November 20, 2025	Email	Paul McLauchlin	Project Notification Package email auto-forwarded by MNA-OMG to Rocky View Metis District consultation contact.
Metis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District	Amber Boyd, District Captain	December 18, 2025	Email	Paul McLauchlin	Project Follow-up letter “What We Heard” Sent via email

Appendix E:

Concern and Response Table

Beacon AI Centers – Indus Project Concern and Response Summary Table				
Key Concerns	**Interest**	**Specific Concern**	**Proponent Response/Mitigative Measure**	**Status**
Land Use	Open House	Change of Land Use.	The project is on private (freehold) land that has been used for agriculture for the past 60+ years. Additionally, the land is within the Special, Data Centre District (S-DAT) in Rocky View County. Geospatial data of the Special, Data Centre District (S-DAT) can be found in the Rocky View County Landuse Map No. 33. The project centre is at 53°56'35.58"N 113°48'25.81"W a google earth KMZ file is attached to this email.	Resolved.
Noise Impact	Open House	Impact that sound may have on neighbours, community or region.	Pursuant to AUC Rule 012, all regulated facilities are required to comply with the Permissible Sound Level (PSL) standards during both daytime (07:00 to 22:00) and nighttime (22:00 to 07:00) periods. Compliance must be demonstrated at a distance of 1.5 km (the 1.5 km criteria boundary) from the facility's boundary or at the location of the closest residential dwelling, whichever is nearer. For the purposes of this rule, dwellings are defined as structures that are permanently or seasonally occupied for human rest. The Project requires mitigation measures that are inherent in the designs to achieve compliance with the PSLs of AUC Rule 012. Mitigation measures will be implemented during Project design. The assessment results presented in the previous sections include the application of mitigation measures. Mitigation measures for Project Case components are summarized as follows: • Implementation of mitigation measures for the QPAC modulars to achieve 60 dBA at 10 m for each modular. This may be achieved in conjunction with the manufacturer supply modifications, or implementation of additional mitigation measures for the original QPAC modulars, including additional genset exhaust silencers, genset ventilation exhaust silencers, acoustic louvers for radiator and air filtration module, and enhanced modular roof system.	Resolved.

Beacon AI Centers – Indus Project Concern and Response Summary Table				
Key Concerns	**Interest**	**Specific Concern**	**Proponent Response/Mitigative Measure**	**Status**
			• Installation of additional silencers for HRSG stack outlets • Installation of additional silencers for Siemens GT air intake filter houses • Utilization of low-noise ACC units, or installation of silencers for ACC inlets and outlets to meet specified acoustic performance of ACC in Table 8 and Table A.1 • Installation of silencers for the generation building ventilation inlets and outlets • Installation of acoustic barriers on the east side of GSU transformers • Installation of silencers for the air-cooled chiller outlets • Installation of acoustic louvers for the air-cooled chiller inlets • Installation of acoustic barriers on the east and south sides of four data halls Noise effects from the Beacon AI Centers – Indus Project were assessed at eleven receptors R1 through R11. The PSLs for the receptors were determined according to the AUC Rule 012 requirements. Baseline Case sound levels at the receptors were determined using the prescribed ASL and existing third-party facilities noise effect based on the baseline field program. Noise model was compiled using manufacturers data, owner's engineering specifications and drawings, representative noise emission levels from similar equipment, and acoustic calculations. Cumulative sound levels of the Application Case were predicted and compared with the PSLs. The modeling results indicate that the predicted cumulative sound levels of the Application Case meet the daytime and nighttime PSLs at all receptors. Also, based on AUC Rule 012 prescribed approach and Health Canada Noise Guidance, low frequency noise effect is not expected at all	

Beacon AI Centers – Indus Project Concern and Response Summary Table				
Key Concerns	**Interest**	**Specific Concern**	**Proponent Response/Mitigative Measure**	**Status**
			receptors. This NIA concludes that the Project complies with the AUC Rule 012 requirements. The full Noise effects study will become part of the AUC application that Beacon expects to submit by the end of 2025.	
Air Impact	Open House	Impacts to air quality from the power generation proposed at the site.	Beacon plans to build and operate the Indus Data Center Project which includes a 1200 MW power generation facility located in Rocky View County approximately 8km west of Langdon, Alberta. Potential effects on ambient air quality associated with the Project were evaluated using the AERMOD dispersion model. Maximum ground-level concentrations of NO_2, CO and $PM_{2.5}$ were predicted and compared to the Alberta Environment and Protected Areas (AEPA) Ambient Air Quality Objectives and Guidelines (AAAQO/G; (AEPA 2024a)). The air quality assessment shows that maximum predicted ground-level concentrations for all substances of interest associated with emissions from the Project (the Project alone) are below the AAAQO/G for all relevant averaging periods (ranging between 0.5% and 20% of the AAAQO/G). The maximum predicted NO_2, CO, and $PM_{2.5}$ concentrations for all averaging periods associated with the Base Case and Application Case are below the AAAQO. A comparison between maximum predicted concentrations for the Base Case and Application Case indicates small increases (up to 0.8%) to the maximum predicted NO_2, CO and $PM_{2.5}$ concentrations with the addition of the Project. The model results show that overall maximum concentrations in the study area are primarily attributable to emissions from the existing regional industrial facilities	Resolved.

Beacon AI Centers – Indus Project Concern and Response Summary Table				
Key Concerns	**Interest**	**Specific Concern**	**Proponent Response/Mitigative Measure**	**Status**
			The full Air Impact study will become part of the AUC application that Beacon expects to submit by the end of 2025.	
Water Usage	Open House	Project participants have read concerns that Data Centres use excessive amounts of water.	Beacon has an agreement with Langdon Waterworks Ltd. to receive 1500 cubic meters per day of potable water.	Resolved.
Consultation	Open House	When will consultation end.	Beacon is committed to continuing conversations with interested parties for the life of the project. As a new project in the Special, Data Centre District (S-DAT) we look forward to continuing to share project information, updates to the project, and to answer any questions interested parties may have.	Ongoing Updates.

Appendix F:

Indigenous Community Contact List

BEACON AI CENTERS

Indus AI Center Indigenous Communities Contact List									
Community Name	**Consultation Contact**	**Address 1**	**Address 2**	**City**	**Province**	**Postal Code**	**Country**	**Phone**	**Email Address**
Tsuut'ina First Nation	Violet M. Meguinis	9911 Chiila Blvd		Tsuut'ina	Alberta	T3T 0E1	Canada	403-737-8236	violet.meguinis@tsuutina.com
Blood Tribe	Mike Oka	PO Box 60		Standoff	Alberta	T0L 1Y0	Canada	403-238-6304	mike.oka@bloodtribe.org
Piikani Nation	Ira Provost	Box 70		Brocket	Alberta	T0K 0H0	Canada	403-894-3639	ira.provost@piikaniconsultation.com
Stoney Nakoda First Nation (Bearspaw)	William (Bill) Snow	PO Box 40		Morley	Alberta	T0L 1N0	Canada	403-881-4760	bills@stoney-nation.com
Stoney Nakoda First Nation (Chiniki)	William (Bill) Snow	PO Box 40		Morley	Alberta	T0L 1N0	Canada	403-881-4760	bills@stoney-nation.com
Stoney Nakoda First Nation (Goodstoney)	William (Bill) Snow	PO Box 40		Morley	Alberta	T0L 1N0	Canada	403-881-4760	bills@stoney-nation.com
Siksika Nation	Jamie Spring Chief	PO Box 1314		Siksika	Alberta	T0J 3W0	Canada	<personal information removed>	JamieSC@siksikanation.com; cedrics@siksikanation.com
Metis Nation of Alberta Region 3	Judy Gentes, President	Suite 124, 1530 27 Ave NE		Calgary	Alberta	T2E 7S6	Canada	(403) 569 8800	office@metis3.ca
Metis Nation of Alberta - Otipemisiwak Métis Government	Andrea Sandmaier, President	#100 Delia Gray Building	11738 Kingsway Avenue NW	Edmonton	Alberta	T5G 0X5	Canada	780-455-2200	mna@metis.org
Metis Nation of Alberta - Otipemisiwak Métis Government - Battle River Territory - Rocky View Metis District	Amber Boyd, District Captain	Otipemisiwak Métis Government Rocky View Métis District	P.O. Box 2097	Cochrane	Alberta	T4C 1B8	Canada	(825) 401-2432	BRT.Consultation@metis.org; aboyd@metis.org

Appendix G:

November 2025 Indigenous PSIP Notification

BEACON AI CENTERS

Via Email:

Insert Community
Insert Consultation Contact
Insert Address

November 19, 2025

Dear Insert Consultation Contact,

RE: Beacon AI Centers, Indus AI Hub and Gas-Powered Electrical Generation Facility

On behalf of Beacon AI Centers, I am pleased to notify you that we have initiated the Participant Involvement Program (PIP) as part of our Indus AI Hub and Gas-Powered Electrical Generation Facility (the Project) application process to the Alberta Utilities Commission (AUC).

Project Overview

Beacon Data Centres Inc. is proposing to develop and operate a 1200-megawatt (MW) Artificial Intelligence (AI) Data Center with a 1200MW Gas Powered Electrical Generation Facility on private land located approximately seven kilometres west of Langdon, Alberta. The project location is on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.

The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI. If approved, the project footprint will be 252.92 hectares.

Enclosed in this package you will find the following information regarding the Project:

- **A Project Information Package**
- **The AUC Brochure** *"Participating in the AUC's Independent Review Process to Consider Facility Applications"*

Community Engagement

BEACON
AI CENTERS

We would like to invite you to the **Project Open House on Monday, November 24th, 2025**, from **6:00 pm to 8:00 pm at the Indus Recreation Center Meeting Room, 225155 Range Road #281A, Indus, Alberta, T1X 0H7**. The Open House will provide an opportunity to learn more about the Project in greater detail, and have your questions answered and concerns addressed by our team of experts.

We wish to keep open communication with you and incorporate any feedback you may have in relation to the proposed project.

If you have any questions or wish to meet to discuss this project further, please contact me at *780-995-7339 or* *paulmc@elmatters.com* at your earliest convenience.

Sincerely,

Beacon AI Centers - Indus
By its representative Environmental Leadership Matters

<original signed by>

Paul McLauchlin
Senior Engagement Specialist

COMMUNITY OPEN HOUSE

INDUS AI Hub and Gas Powered Electrical Generation Facility

Please join us at the Open House to learn more about this exciting project.

Date: November 24th, 2025
Time: 6:00 PM to 8:00 PM
Location: Indus Recreation Center
Meeting Room
225155 Range Road # 281A
Indus, AB T1X 0H7

Please drop in at any time. No registration is required.

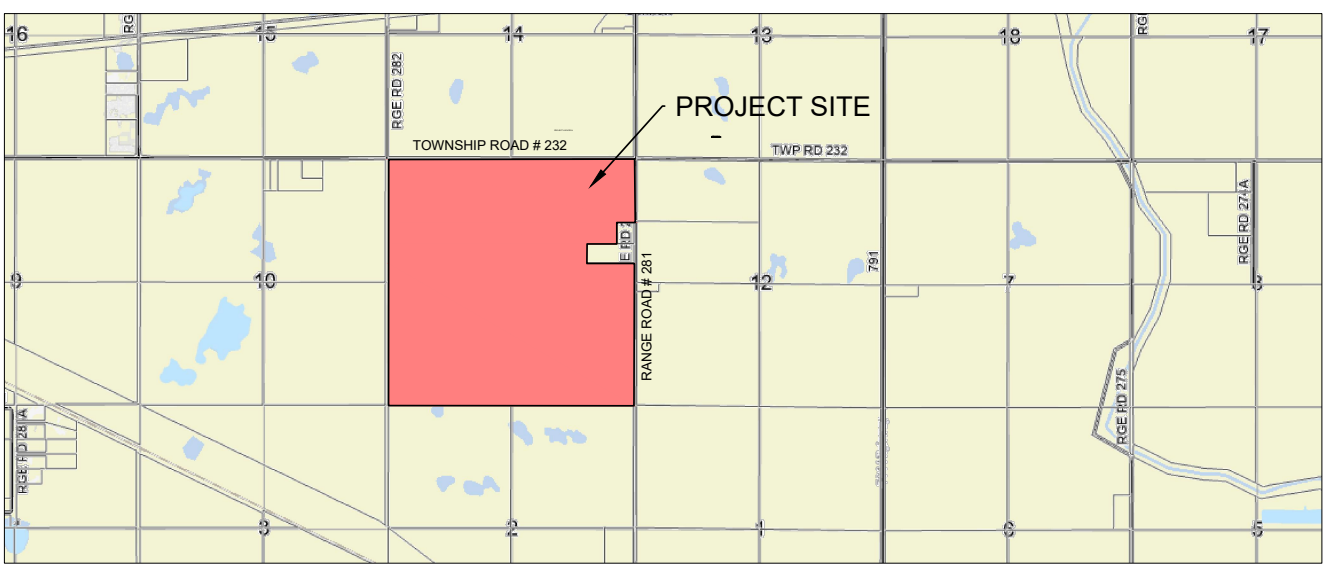
About the project:

Beacon AI Centers is developing a 1200MW Artificial Intelligence (AI) Data Center with a 1200MW Gas Powered Electrical Generation Facility.

The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI.

Project Location

Located on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.



Contact Information:
Beacon AI Centers
indus@beacondatacenters.com

Welcome

BEACON AI CENTERS

Beacon AI Data Center Inc. is proposing to develop the Indus AI Data Center Hub - an 1200 Megawatt (MW)digital Infrastructure and clean power facility.

Today, we would like to:

Share information about our exciting project.

Answer any other questions you may have about the project or how the project may benefit you.

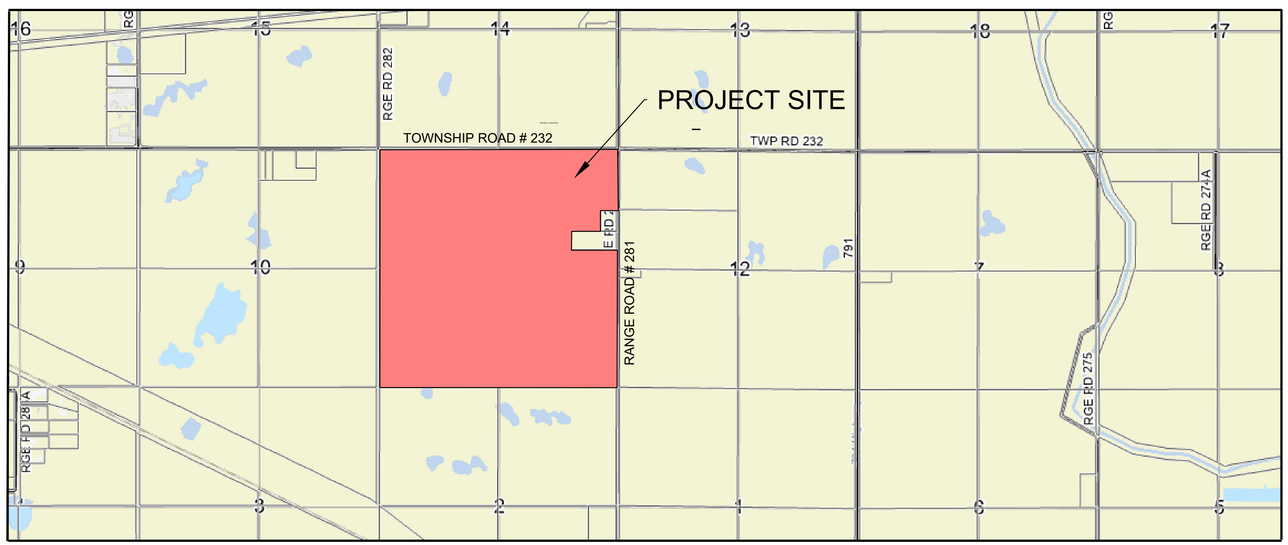
Obtain your thoughts and feedback on the data center project.

Land Acknowledgement

Beacon Data Centers Inc. and RockyView County recognizes we are on Treaty 7 territory, the traditional homelands of the Blackfoot Territory and the Blackfoot Confederacy, including Siksika Nation, North and South Piikani Nation and the Kainai Nation.

We acknowledge the other members of Treaty 7 First Nations, including the Tsuut'ina Nation and the Stoney Nakoda Nation comprised of the Chiniki, Bearspaw and Goodstoney First Nations.

Our acknowledgement also extends to the home of the Metis people of Region 3 of the Metis Nation of Alberta.



About Beacon

BEACON AI CENTERS

As a digital infrastructure developer specializing in AI - scale data centers, we aim to facilitate the growth of innovative technologies by providing advanced computing solutions.

Key aspects of our operations include:

- *Partnerships with local stakeholders for economic growth.*
- *Commitment to fostering local talent and work force development.*
- *Anchoring a tech and innovation ecosystem.*

Beacon is led by a highly experienced team of professionals from across the data center, technology, power and finance sectors with capabilities in business management, project development, construction and operations.



Joseph Shovlin
Co-founder

Co-Founder of Beacon, leads market entry and development across the portfolio.

Experienced developer in energy and digital infrastructure.

Leads site identification, permits acquisition and community engagement.



Josh Schertzer
CEO

After nearly two decades at Blackstone, most recently serving as CTO of Enterprise Technology, Josh joined Beacon as CEO in May 2025.

At Blackstone, he advised business units and portfolio companies on technology and strategic / investment opportunities. He also oversaw growth and investment in data centers across the United States.



Lauren Armstrong
VP Corporate Affairs

Former principal at Canada's leading high-stakes public strategy and communications firm specializing in energy.

More than a decade at senior levels of federal and provincial Canadian politics / government.

Leads Beacon's communications, brand/digital, and stakeholder and government relations.



Dermot Callaghan
VP of Data Center Strategy

13 years at Google Data Centers, where he oversaw the delivery of a data center portfolio across 12 countries and 32 local data center markets exceeding multiple GW's of capacity.

Instrumental in the development of Google's commercial operations across the globe.

Worked extensively on Googles next gen data center design and deployment for Gemini.

Project Overview

BEACON AI CENTERS

What is a Data Center?

- An AI data center is a piece of critical digital infrastructure that enables a wide range of technology including AI and cloud computing.

- It houses thousands of advanced computer process. Together, they act like a supercomputer that can analyze massive amounts of information, allowing AI to learn, make predictions, and support new discoveries.

- It combines secure buildings, advanced cooling systems, and fiber-optic connections to create the computing foundation for the application of AI for a variety of uses including medical, technological and government.

Facts and Figures

Employment Opportunities

Local employment opportunity through **1500+** construction jobs and **300+** operational jobs.

Investment

$7B investment by Beacon Data Centres, and opportunity for other investment avenues by attracting related services and business.

Revenue Generation

Increased tax revenue for the County to fund public services and infrastructure projects.

1200 MW On-Site Generation

Gas to Electric Gas Generation

Development Footprint

624.99–acre Project Footprint.

Gas Generation

BEACON AI CENTERS

The Technology

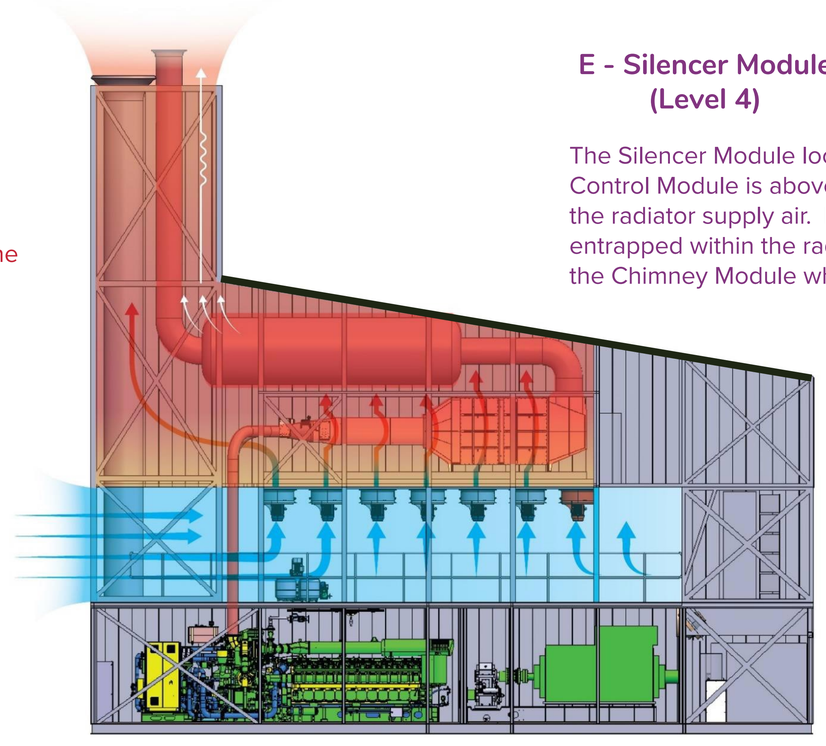
The technoligically advanced Volta Grid modularized QPAC with the Jenbacker J624 Natural Gas Engine.

Noise Assessment

A detailed noise impact assessment will be undertaken during both the construction and operational phases in compliance with regulatory noise limits contained within Alberta Utilities Commission (AUC) Rule .012.

Air Quality

A dispersion modeling assessment, in compliance with the Alberta Air Quality Modeling Guidelines (AQMG) will be undertaken to evaluate the impact on air quality and to meet the requirements of the National Base Level Emissions Requirements (BLIERS).



E - Silencer Module (Level 4)

The Silencer Module located on the fourth floor above the Emissions Control Module is above the radiator to prevent pre-heating of the radiator supply air. Radiant heat from the exhaust silencer is entrapped within the radiator exhaust air and directed toward the Chimney Module where it exits out the top of the Qpac5.

F - Chimney Module

The Chimney Module contains the structure to support the genset ventilation duct, exhaust piping, and forms the radiator exhaust airflow chimney.

C- Radiator & Air Filtration Module (Level 2)

The Radiator & Air Filtration Module iocated above the Engine Module and Power Conversion Module aids in minimizing the Qpac5. Large open space is provided beneath the radiators to ensure an adequate supply of ambient air to the radiator cores.

A - Engine Module

The Engine Module, located at ground level contains the Jenbacher J624 natural gas engine and balance of plant components. An overhead bridge crane integrated into the interior roof of the module allows for easy maintenance of the engine.

D- Emissions Control Module (Level 3)

The Emissions Control Module is located on the third floor above the Radiator & Air Filtration Module to prevent pre-heating of the radiator supply air. Radiant heat from the exhaust piping and SCR is entrapped within the radiator exhaust air and directed toward the Chimney Module where it exits out the top of the Qpac5.

B - Power Conversion Module (Level 1)

The Power Conversion Module contains the gearbox, alternator, low voltage power distribution, ventilation fans. and are strategically located to minimize cable lengths and ensure separation between medium and low voltage equipment while minimizing the Qpac5 footprint.

Next Steps

BEACON AI CENTERS

Thank you for attending the Open House

Project Timeline (2025 - 2028)

NOV 2024 — November 12th, 2024 Rocky View County authorized preparation of the Beacon AI Hub Area Structure Plan.

JUNE 2025 — RockyView County redesignated the lands to Special - Data Center District ‘S-DAT’. June 17th, 2025 by Rocky View County.

TODAY — **OPEN HOUSE**

NOV 2025 — Submit Application to Alberta Utilities Commission for consideration.

Q2 - 2026 — Submit Development Permit Application to RockyView County for Data Center and Gas Generation development approval.

Q1 - 2028 — Data Center energized.

For more information, please contact:

BEACON AI CENTERS

Beacon Data Center Inc.
1 (866) 594-9982 (Toll Free)
Indus@BeaconDataCenters.com

Local Benefits

BEACON AI CENTERS

The Indus AI Hub will be a significant asset to the local area, driving economic growth, enhancing technological infrastructure, and contributing positively to the community and environment.

Economic Development

- The presence of an AI data center hub will help attract other tech companies and startups to the area, fostering a tech ecosystem and furthering innovation.
- Transformative supply chain opportunities for local companies with increased demand for construction, mechanical/electrical, landscaping and professional services.
- World Class telecommunication infrastructure due to fibre upgrades for public services, businesses and residents.

Community Benefits

- Significant revenue generation for Rocky View County and Government of Alberta.
- Partnership opportunities with local educational institutions to offer training rams and internships.
- Dedicated corporate giving for important community initiatives

AUC
Alberta Utilities Commission



Participating in the AUC's independent review process to consider facility applications

www.auc.ab.ca

The AUC regulatory review process to consider facility applications for utility projects

The AUC uses an established process to review social, economic and environmental impacts of facility projects to decide if approval of a project is in the public interest.

The AUC considers applications requesting approval of the need for transmission development and facilities applications seeking approval to construct, operate, alter and decommission electric and natural gas facilities. Applications, as specified in AUC Rule 007, are required for:

- The need for transmission upgrades.
- The route and location of transmission facilities.
- The siting of power plants.
- The construction of a battery storage system.
- The designation of an industrial system.
- The need for and siting of natural gas utility pipelines.

Sometimes the Alberta Electric System Operator's needs identification document application is considered together with a facility application in a single proceeding; sometimes separate proceedings are held to consider each application.

Application review process

Step 1: Public consultation prior to applying to the AUC

Step 2: Application filed to the AUC

Step 3: Public notice

Step 4: Public submissions to the AUC

Step 5: Consultation and negotiation

Step 6: The public hearing process

Step 7: The decision

Step 8: Opportunity to appeal

Step 9: Construction, operation and compliance

Application review process

Step 1: Public consultation prior to applying to the AUC

An applicant seeking approval of a proposed utility development project is required to engage in a participant involvement program prior to filing an application with the AUC. The public involvement program involves consultation with persons whose rights may be directly and adversely affected by the proposed project so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the public consultation, also called a participant involvement program. Early, active and ongoing discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

Step 2: Application filed to the AUC

When the applicant has concluded its consultation with potentially affected parties and the participant involvement requirements have been completed, the applicant files its application through the AUC online public filing system, called the eFiling System.

AUC staff members review each application submitted to verify that all of the application requirements in Rule 007 have been met before an application is deemed complete. If all of the required information is not provided, the application may be closed or missing information will be requested of the applicant. Rule 007 specifies, among other requirements, that applicants must submit the results of a public involvement program in its application that includes information about how applicants consulted and notified stakeholders and Indigenous groups and identifies any unresolved objections and concerns about the project.

Step 3: Public notice

When the AUC receives an application it is assigned a proceeding number and the AUC generally mails a notice of application directly to those who live, operate a business or occupy land in the project area who may be directly and adversely affected if the AUC approves the application. The notice initiates the opportunity for formal intervention in the proceeding to consider an application or applications. The notice of application will also set out important dates and information about where to find the application and other items being considered. The five-digit eFiling System proceeding number in the notice is the most efficient way to find information about a proposed project through the AUC website.

Step 4: Public submissions to the AUC

Prior to the submission deadline provided in the notice, formal submissions of outstanding concerns and unresolved objections about a project may be submitted to the AUC. To submit a concern, participants will need to register to participate in the proceeding, which involves providing a brief written statement called a statement of intent to participate. Submissions are filed electronically through the eFiling System. The information filed becomes part of the public record and is an important part of the process to ensure that outstanding concerns are heard, understood and considered.

The AUC uses the information gathered through statement of intent to participate submissions to decide whether to hold a hearing on the application(s). The AUC must hold a hearing if a concerned person can demonstrate that they have rights that may be directly or adversely affected by the AUC's decision on the application. Such a person is said to have standing before the AUC. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to ask the applicant questions on the public record and present their position on the application either in writing or in person. Hearings may

be held in writing, in person or virtually through web-conference software.

AUC eFiling System

The eFiling System is the online tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application. The system is also used to submit your concerns and provide input to the AUC and can be used to monitor related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

Step 5: Consultation and negotiation (if applicable)

The AUC supports efforts to reach a mutually agreeable outcome among the applicant and affected parties. The AUC encourages the applicant and those who have filed a statement of intent to participate to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed in an AUC hearing.

Step 6: The public hearing process

The AUC will issue a notice of hearing if a person with standing continues to have legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location, or specify if the hearing will be held in writing or virtually. When the AUC holds a public hearing, registered parties are given the opportunity to express their views directly to a panel of Commission members. Any member of the public can listen to an in-person or virtual oral hearing. An oral public hearing operates similar to a court proceeding.

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

Cost assistance

A person determined by the AUC to have standing or a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Rules on Local Intervener Costs*, recovery of costs is subject to the AUC's assessment of the value of the contribution provided by the lawyer and technical experts in assisting the AUC to understand the specifics of the case. It is also subject to the AUC's published scale of costs.

People with similar interests and positions are expected and encouraged to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

Step 7: The decision

The AUC's goal is to issue its written decision no more than 90 days after the close of record. The AUC can approve, or deny an application and can also make its approval conditional upon terms or conditions. AUC decisions are publicly available through the AUC website at www.auc.ab.ca.

Step 8: Opportunity to appeal

An applicant or participant in a proceeding may formally ask the Court of Appeal of Alberta for permission to appeal an AUC decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or participant in a proceeding can also ask the AUC to review its decision. An application to review a decision must be filed within 30 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review of Commission Decisions*.

Step 9: Construction, operation and compliance

An applicant that receives approval to build and operate a facility from the AUC is expected to follow through on any commitments it has made to parties and must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website.

www.auc.ab.ca

Updated March 2024

The Alberta Utilities Commission is an independent, quasi-judicial agency of the government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

We are committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.

AUC
Alberta Utilities Commission

Contact us

Phone: 310-4AUC
1-833-511-4282 (outside Alberta)
info@auc.ab.ca
www.auc.ab.ca

Eau Claire Tower
1400, 600 Third Avenue S.W.
Calgary, Alberta T2P 0G5

Appendix H:

ACO Pre Consultation Assessment Request response

Outlook

FNC for FNC202501103 - South Saskatchewan Region

From EDS.Support@gov.ab.ca <EDS.Support@gov.ab.ca>
Date Fri 11/28/2025 4:30 PM
To linda@elmatters.com <linda@elmatters.com>; ir.fnconsultlands-eds2110ea@gov.ab.ca <ir.fnconsultlands-eds2110ea@gov.ab.ca>

The following FNC has been cancelled:

First Nation/Metis Settlement Consultation FNC202501103 for BEACON DATA CENTERS INC. (1036034001)

This message is generated by Electronic Disposition System (EDS) on 2025/11/28 at 16:30:19

Please do not reply to this message.
This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail.

Request For More Information

File Number for Consultation: FNC202501103 Date of Submission: 2025/11/25

Client Project Name: Beacon Indus AI Center

The Aboriginal Consultation Office has reviewed your consultation submission regarding the proposed projects provided by: BEACON DATA CENTERS INC.

Based on our review, in accordance with Alberta's First Nations and Metis Settlements policies and guidelines (http://indigenous.alberta.ca/1.cfm), the Aboriginal Consultation Office has determined that more information is required to complete an assessment.

Reviewed by: Muench, Sandra Date of Review: 2025/11/28

Should you have any questions, please contact the reviewer at:

Phone Number: (780)712-9545 Email Address: sandra.muench@gov.ab.ca

Supporting Comments/Direction:

Please cancel this FNC pre-consultation assessment request. The Public Lands Act does not apply to private land.

Sandra

Personal information is collected in accordance with Section 33(c) of the Freedom of Information and Protection of Privacy Act. The personal information collected within this form will be used to administer the First Nations/Metis Settlements consultation process. If you have any questions about the collection or use of this information, you can contact the Director, FOIP Services, Indigenous Relations and International and Intergovernmental Relations (780)427-9658.

Pre-consultation Assessment Request

File Number for Consultation:	FNC202501103	Date of Submission:	2025/11/25
Client Project Name:	Beacon Indus AI Center		
Client Name:	BEACON DATA CENTERS INC.		
Contact Name:	Black, Linda	Contact Number:	(780)995-7339
Contact Email:	linda@elmatters.com		

This Pre-consultation Assessment Request, as submitted by the Client, will be reviewed by the Aboriginal Consultation Office (ACO) to assess if consultation is required and if so, with which First Nations/Metis Settlements. The ACO's assessment will be based on the information and content provided by the Client. It is the responsibility of the Client to ensure all required information is included in their submission. If you have questions regarding the consultation process, or if you would like to know the status of your request, email: ir.fnconsultlands-eds2110ea@gov.ab.ca

Supporting Comments/Clarification:

Attached Supporting Documents (4):1. LATReport_0000065176 2. LATReport_0000065177
3. BeaconIndusAICenter_Projectmapping 4. BeaconIndusAICenter_Supportdocuments Project Subject Area Totals 252.92 hectares ATS To: NW 11 23 28 W4 ATS From: SE 11 23 28 W4
Duration of activity Construction Phase = 24-months: Q1 2026- Q1 2028 In-service operation: Q1 2028 Buffer Size: 100m. The Beacon AI Data Centres Power Generation and Digital Infrastructure Project (the "Project") represents the development of one of Canada's largest hybrid thermal generation facilities, purpose-built to supply continuous, high-density electrical power to on-site artificial-intelligence (AI), high-performance computing (HPC), and cloud-compute campuses. Located near Langdon, Alberta, the installation will form the anchor of a purpose-built digital-energy campus designed to operate independently of the provincial transmission system while meeting Tier III/IV data-centre standards for reliability, redundancy, and electrical integrity. Beacon AI Centers is proposing to develop an 1200MW Artificial Intelligence (AI) Data Center with an 1200MW Gas Powered Electrical Generation Facility. The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI.
The Project addresses Alberta's growing need for reliable, high-density electrical supply for data-centric industries, particularly artificial-intelligence (AI), high-performance computing (HPC), and cloud-service infrastructure. The project is located on privately owned land approximately seven kilometres west of Langdon, Alberta, and is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County. Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation's Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members' harvesting or traditional use activities .No previous FNC

Personal information is collected in accordance with Section 33(c) of the Freedom of Information and Protection of Privacy Act. The personal information collected within this form will be used to administer the First Nations/Metis Settlements consultation process. If you have any questions about the collection or use of this information, you can contact the Director, FOIP Services, Indigenous Relations and International and Intergovernmental Relations (780)427-9658.

Pre-consultation Assessment Request

Activity Number	Disp Type	Program Type	Source Line Spacing	Regulator	Purpose Type	Activity Area/Distance	Land Use Area
FNC202501103-001	DML			FP	Commercial Development - Commercial Facility	252.92 HA	South Saskatchewan Region

ATS Legal - From	ATS Legal - To
NW 11 23 28 4	SE 11 23 28 4

Activity Number	Disp Type	Program Type	Source Line Spacing	Regulator	Purpose Type	Activity Area/Distance	Land Use Area
FNC202501103-002	DML			FP	Electrical - Power Station / Substation	252.92 HA	South Saskatchewan Region

ATS Legal - From	ATS Legal - To
NW 11 23 28 4	SE 11 23 28 4

Activity Number	Disp Type	Program Type	Source Line Spacing	Regulator	Purpose Type	Activity Area/Distance	Land Use Area

ATS Legal - From	ATS Legal - To

Activity Number	Disp Type	Program Type	Source Line Spacing	Regulator	Purpose Type	Activity Area/Distance	Land Use Area

ATS Legal - From	ATS Legal - To

Activity Number	Disp Type	Program Type	Source Line Spacing	Regulator	Purpose Type	Activity Area/Distance	Land Use Area

ATS Legal - From	ATS Legal - To

The following documents have been uploaded and attached as part of this Pre-consultation Assessment Request:

Assessment Request Supporting Doc LATReport_0000065176 2025-11-25 18-22-05.pdf
Assessment Request Supporting Doc LATReport_0000065177 2025-11-25 18-22-06.pdf
Assessment Request Supporting Doc BeaconIndusAICenter_Projectmapping 2025-11-25 18-22-06.pdf
Assessment Request Supporting Doc BeaconIndusAICenter_Supportdocuments 2025-11-25 18-22-08.pdf

Aboriginal Consultation Office Digital Service

FNC202554527

Beacon Indus AI Center

Proponent 1036034001 - BEACON DATA CENTERS INC.

Pre-Consultation Assessment

✓ **Application**	November 25, 2025
✓ **Recommendation**	December 16, 2025
ACO Reviewer	Sandra Muench
Phone	(780) 712-9545
Email	sandra.muench@gov.ab.ca
Proponent	Linda Black
Phone	(780) 995-7339
Email	linda@elmatters.com

Adequacy Assessment

Application	—
Recommendation	—
ACO Reviewer	—
Phone	—
Email	—
Proponent	—
Phone	—
Email	—

Project information

Project buffer

No, this project does not have a buffer.

Buffer description

N/A

Project duration

Project duration is expected to be 25 years.

Construction duration

Construction duration is expected to be 24 months.

Project description and supporting information

The Beacon AI Data Centres Power Generation and Digital Infrastructure Project (the “Project”) represents the development of one of Canada’s largest hybrid thermal generation facilities, purpose-built to supply continuous, high-density electrical power to on-site artificial-intelligence (AI), high-performance computing (HPC), and cloud-compute campuses. Located near Langdon, Alberta, the installation will form the anchor of a purpose-built digital-energy campus designed to operate independently of the provincial transmission system while meeting Tier III/IV data-centre standards for reliability, redundancy, and electrical integrity.
Beacon AI Centers is proposing to develop an 1200MW Artificial Intelligence (AI) Data Center with an 1200MW Gas Powered Electrical Generation Facility. The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI.
The Project addresses Alberta’s growing need for reliable, high-density electrical supply for data-centric industries, particularly artificial-intelligence (AI), high-performance computing (HPC), and cloud-service infrastructure.
Traditional transmission networks are not designed to provide the instantaneous reliability and fault tolerance demanded by Tier IV computing facilities. This Project eliminates dependency on external grid infrastructure by deploying a localized, modular power system directly adjacent to the load.
The project is located on privately owned land approximately seven kilometres west of Langdon, Alberta, and is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.
Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation’s Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members’ harvesting or traditional use activities.
No previous FNC

Pre-Consultation Assessment Recommendation

1 Project Activities

Activity	Regulator	Disposition	Purpose	Consultation Recommended?
001	EPA	WAC	Water Act	No

Area	ATS From	ATS To	Amended Site	Communities to be consulted
38.18 ha	NW - 11 - 23 - 28 - W4	SE - 11 - 23 - 28 - W4	No	

Amendment/Renewal description

—

Water Act activity description

Activity involves the necessary clearing and modification to the land to allow for development. All surface water will be diverted to constructed consolidated wetland using existing topography.

Wetlands within the project area will be directly impacted by the project, resulting in loss of wetland area. A Wetland Assessment Impact Report and Water Act Application will be submitted for proposed impacts to wetlands. To address impacts to the ephemeral water bodies in the Project area, the proponent will seek approval under the Water Act before construction commences.

Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation's Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members' harvesting or traditional use activities.

Hydrological connection to fish bearing and/or navigable water source details

Only surface water involvement. Construction duration is expected to be approximately 2 years.

Notes

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Pre-consultation Assessment comments

This file has been assessed and processed using the 2024 Proponent Guide. To review the 2024 Proponent Guide please see:

https://www.alberta.ca/indigenous-consultations-in-alberta

https://open.alberta.ca/publications/goa-proponent-guide-first-nations-metis-settlements-consultation-procedures

Aboriginal Consultation Office Digital Service

FNC202554527
Beacon Indus AI Center

Proponent 1036034001 - BEACON DATA CENTERS INC.

Pre-Consultation Assessment

✓ **Application**	November 25, 2025
Recommendation	—
ACO Reviewer	—
Phone	—
Email	—
Proponent	Linda Black
Phone	(780) 995-7339
Email	linda@elmatters.com

Adequacy Assessment

Application	—
Recommendation	—
ACO Reviewer	—
Phone	—
Email	—
Proponent	—
Phone	—
Email	—

Project information

Project buffer
No, this project does not have a buffer.

Buffer description
N/A

Project duration
Project duration is expected to be 25 years.

Construction duration
Construction duration is expected to be 24 months.

Project description and supporting information
The Beacon AI Data Centres Power Generation and Digital Infrastructure Project (the “Project”) represents the development of one of Canada’s largest hybrid thermal generation facilities, purpose-built to supply continuous, high-density electrical power to on-site artificial-intelligence (AI), high-performance computing (HPC), and cloud-compute campuses. Located near Langdon, Alberta, the installation will form the anchor of a purpose-built digital-energy campus designed to operate independently of the provincial transmission system while meeting Tier III/IV data-centre standards for reliability, redundancy, and electrical integrity.
Beacon AI Centers is proposing to develop an 1200MW Artificial Intelligence (AI) Data Center with an 1200MW Gas Powered Electrical Generation Facility. The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI.
The Project addresses Alberta’s growing need for reliable, high-density electrical supply for data-centric industries, particularly artificial-intelligence (AI), high-performance computing (HPC), and cloud-service infrastructure.
Traditional transmission networks are not designed to provide the instantaneous reliability and fault tolerance demanded by Tier IV computing facilities. This Project eliminates dependency on external grid infrastructure by deploying a localized, modular power system directly adjacent to the load.
The project is located on privately owned land approximately seven kilometres west of Langdon, Alberta, and is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.
Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation’s Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members’ harvesting or traditional use activities.
No previous FNC

Pre-Consultation Assessment Recommendation

1 Project Activities

Activity	Regulator	Disposition	Purpose	Consultation Recommended?
001	EPA	WAC	Water Act	

Area	ATS From	ATS To	Amended Site	Communities to be consulted
38.18 ha	NW - 11 - 23 - 28 - W4	SE - 11 - 23 - 28 - W4	No	

Amendment/Renewal description

—

Water Act activity description

Activity involves the necessary clearing and modification to the land to allow for development. All surface water will be diverted to constructed consolidated wetland using existing topography.

Wetlands within the project area will be directly impacted by the project, resulting in loss of wetland area. A Wetland Assessment Impact Report and Water Act Application will be submitted for proposed impacts to wetlands. To address impacts to the ephemeral water bodies in the Project area, the proponent will seek approval under the Water Act before construction commences.

Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation’s Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members’ harvesting or traditional use activities.

Hydrological connection to fish bearing and/or navigable water source details

Only surface water involvement. Construction duration is expected to be approximately 2 years.

Notes

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sandra.muench@gov.ab.ca November 28 2025, 4:00 PM

Good afternoon Linda,

Please make the following changes and then resubmit for further review:

1. Remove the project buffer. A buffer does not apply to this project.

2. Submit a map that clearly shows the wetlands that will be affected with their sizes labelled on the map. Page 14 of the Proponent Guide outlines requirements for maps.

3. Update the activity size to just be the wetland areas that will be affected and need a Water Act approval instead of the entire project area (252.92 ha).

4. Change the project duration to be how long the AI center is anticipated to be there for (ex. 10,25,50 years).

If you have any questions, give me a call.

Sandra
780-712-9545

Aboriginal Consultation Office Digital Service

FNC202554527
Beacon Indus AI Center

Proponent 1036034001 - BEACON DATA CENTERS INC.

Pre-Consultation Assessment

✓ Application	November 25, 2025
Recommendation	—
ACO Reviewer	—
Phone	—
Email	—
Proponent	Linda Black
Phone	(780) 995-7339
Email	linda@elmatters.com

Adequacy Assessment

Application	—
Recommendation	—
ACO Reviewer	—
Phone	—
Email	—
Proponent	—
Phone	—
Email	—

Project information

Project buffer
Yes, this project has a buffer.

Buffer description
100 meter non-linear disturbance

Project duration
Project duration is expected to be 24 months.

Construction duration
Construction duration is expected to be 24 months.

Project description and supporting information
The Beacon AI Data Centres Power Generation and Digital Infrastructure Project (the “Project”) represents the development of one of Canada’s largest hybrid thermal generation facilities, purpose-built to supply continuous, high-density electrical power to on-site artificial-intelligence (AI), high-performance computing (HPC), and cloud-compute campuses. Located near Langdon, Alberta, the installation will form the anchor of a purpose-built digital-energy campus designed to operate independently of the provincial transmission system while meeting Tier III/IV data-centre standards for reliability, redundancy, and electrical integrity.
Beacon AI Centers is proposing to develop an 1200MW Artificial Intelligence (AI) Data Center with an 1200MW Gas Powered Electrical Generation Facility. The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI.
The Project addresses Alberta’s growing need for reliable, high-density electrical supply for data-centric industries, particularly artificial-intelligence (AI), high-performance computing (HPC), and cloud-service infrastructure.
Traditional transmission networks are not designed to provide the instantaneous reliability and fault tolerance demanded by Tier IV computing facilities. This Project eliminates dependency on external grid infrastructure by deploying a localized, modular power system directly adjacent to the load.
The project is located on privately owned land approximately seven kilometres west of Langdon, Alberta, and is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.
Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation’s Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members’ harvesting or traditional use activities.
No previous FNC

Pre-Consultation Assessment Recommendation

1 Project Activities

Activity	Regulator	Disposition	Purpose	Consultation Recommended?
001	EPA	WAC	Water Act	

Area	ATS From	ATS To	Amended Site	Communities to be consulted
252.92 ha	NW - 11 - 23 - 28 - W4	SE - 11 - 23 - 28 - W4	No	

Amendment/Renewal description

—

Water Act activity description

Activity involves the necessary clearing and modification to the land to allow for development. All surface water will be diverted to constructed consolidated wetland using existing topography.

Given the project is on privately owned land, Beacon does not expect any potential short- and long-term adverse impacts to First Nation’s Treaty rights and traditional uses or Metis Settlements or Credibly Asserted Métis Communities members’ harvesting or traditional use activities.

Hydrological connection to fish bearing and/or navigable water source details

Only surface water involvement. Construction duration is expected to be approximately 2 years.

Notes

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Appendix I:

November 2025 Stakeholder and Municipality PSIP Notification

BEACON AI CENTERS

Insert Name
Insert Address

November 20, 2025

Dear Insert Name,

RE: Beacon AI Centers, Indus AI Hub and Gas-Powered Electrical Generation Facility

On behalf of Beacon AI Centers, I am pleased to notify you that we have initiated the Participant Involvement Program (PIP) as part of our Indus AI Hub and Gas-Powered Electrical Generation Facility (the Project) application process to the Alberta Utilities Commission (AUC).

Please note that the following land parcels are within the AUC 800-meter consultation radius or 2000-meter notification radius for thermal power plant applications as indicated in the table below.

LSD	Land Title #	AUC consultation or notification radius
		800m
		2000m

Project Overview

Beacon Data Centres Inc. is proposing to develop and operate a 1200-megawatt (MW) Artificial Intelligence (AI) Data Center with a 1200MW Gas Powered Electrical Generation Facility on private land located approximately seven kilometres west of Langdon, Alberta. The project location is on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.

The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI. If approved, the project footprint will be 252.92 hectares.

Enclosed in this package you will find the following information regarding the Project:

- **A Project Information Package**
- **The AUC Brochure** *"Participating in the AUC's Independent Review Process to Consider Facility Applications"*

Community Engagement

We would like to invite you to the **Project Open House on Monday, November 24th, 2025**, from **6:00 pm to 8:00 pm at the Indus Recreation Center Meeting Room, 225155 Range Road #281A, Indus, Alberta, T1X 0H7**. The Open House will provide an opportunity to learn more about the Project in greater detail, and have your questions answered and concerns addressed by our team of experts.

We wish to keep open communication with you and incorporate any feedback you may have in relation to the proposed project.

If you have any questions or wish to meet to discuss this project further, please contact me at *780-995-7339 or paulmc@elmatters.com* at your earliest convenience.

Sincerely,

Beacon AI Centers - Indus
By its representative Environmental Leadership Matters

<original signed by>

Paul McLauchlin
Senior Engagement Specialist

BEACON AI CENTERS

Via Email:

Insert Municipality
Insert Municipality Address
Insert Municipality Contacts

November 20, 2025

Dear Municipality Representatives,

RE: Beacon AI Centers, Indus AI Hub and Gas-Powered Electrical Generation Facility

On behalf of Beacon AI Centers, I am pleased to notify you that we have initiated the Participant Involvement Program (PIP) as part of our Indus AI Hub and Gas-Powered Electrical Generation Facility (the Project) application process to the Alberta Utilities Commission (AUC).

Project Overview

Beacon Data Centres Inc. is proposing to develop and operate a 1200-megawatt (MW) Artificial Intelligence (AI) Data Center with a 1200MW Gas Powered Electrical Generation Facility on private land located approximately seven kilometres west of Langdon, Alberta. The project location is on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.

The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI. If approved, the project footprint will be 252.92 hectares.

Enclosed in this package you will find the following information regarding the Project:

- **A Project Information Package**
- **The AUC Brochure** *"Participating in the AUC's Independent Review Process to Consider Facility Applications"*
- **AUC Municipal Engagement Form**

Please fill out and return the AUC Municipal Engagement Form if applicable at your earliest convenience.

Community Engagement

BEACON
AI CENTERS

We would like to invite you to the **Project Open House on Monday, November 24th, 2025**, from **6:00 pm to 8:00 pm at the Indus Recreation Center Meeting Room, 225155 Range Road #281A, Indus, Alberta, T1X 0H7**. The Open House will provide an opportunity to learn more about the Project in greater detail, and have your questions answered and concerns addressed by our team of experts.

We wish to keep open communication with you and incorporate any feedback you may have in relation to the proposed project.

If you have any questions or wish to meet to discuss this project further, please contact me at *780-995-7339 or paulmc@elmatters.com* at your earliest convenience.

Sincerely,

Beacon AI Centers - Indus
By its representative Environmental Leadership Matters

<original signed by>

Paul McLauchlin
Senior Engagement Specialist

Municipal engagement form

The Alberta Utilities Commission wishes to provide a forum for municipalities potentially affected by power plant and/or energy storage applications to provide feedback to the Commission. The intent of this form is to receive feedback on a proposed power plant and/or energy storage project's compliance with municipal planning policies and the applicant's consultation with municipalities. This form will have been provided to affected municipalities by the project applicant for a minimum of 30 days, as part of the application process, and the applicant will inform the municipality of the process to complete this form within the required timeline.

It is optional for affected municipalities to complete this form. In the absence of this form being completed, the onus is on the project applicant to share documentation of its attempts to follow up with the municipality to complete this form, as part of its facility application.

The applicant will also be responsible for submitting information on the items included in this form as part of its facility application.

Identification
Project name: Beacon Indus AI Centre Municipality: Municipality contact information:
Municipal planning frameworks
Municipal development plan Does the proposed project area comply with the municipal development plan? If no, please explain.
Intermunicipal development plan Does the proposed project area comply with the intermunicipal development plan? If no, please explain.
Land use bylaw What is the current land use zoning for the proposed project area?

Does the proposed project area comply with the land use bylaw (including applicable setbacks)? If no, please explain. If applicable, what is the land use amendment status for the proposed project area?
Development permit If applicable, what is the development permit status for the proposed project area?
Was consultation conducted with the municipality? Yes ☐ No ☐ Does the municipality have outstanding unresolved concerns about the project? Yes ☐ No ☐ Comments:
Overall comments from the municipality about the project:

Signature (municipality):

X _____

Title:

Date: Click or tap to enter a date.

When complete, please provide this form to the applicant

COMMUNITY OPEN HOUSE

INDUS AI Hub and Gas Powered Electrical Generation Facility

Please join us at the Open House to learn more about this exciting project.

Date: November 24th, 2025
Time: 6:00 PM to 8:00 PM
Location: Indus Recreation Center
Meeting Room
225155 Range Road # 281A
Indus, AB T1X 0H7

Please drop in at any time. No registration is required.

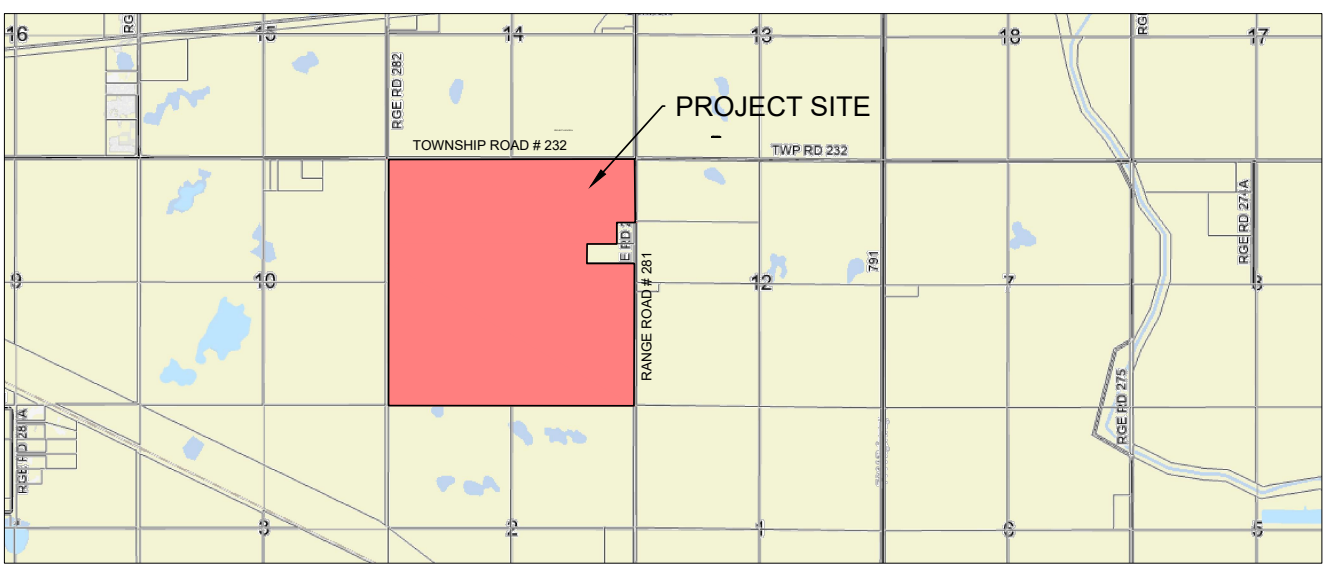
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Located on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.



Contact Information:
Beacon AI Centers
indus@beacondatacenters.com

Welcome

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Today, we would like to:

Share information about our exciting project.

Answer any other questions you may have about the project or how the project may benefit you.

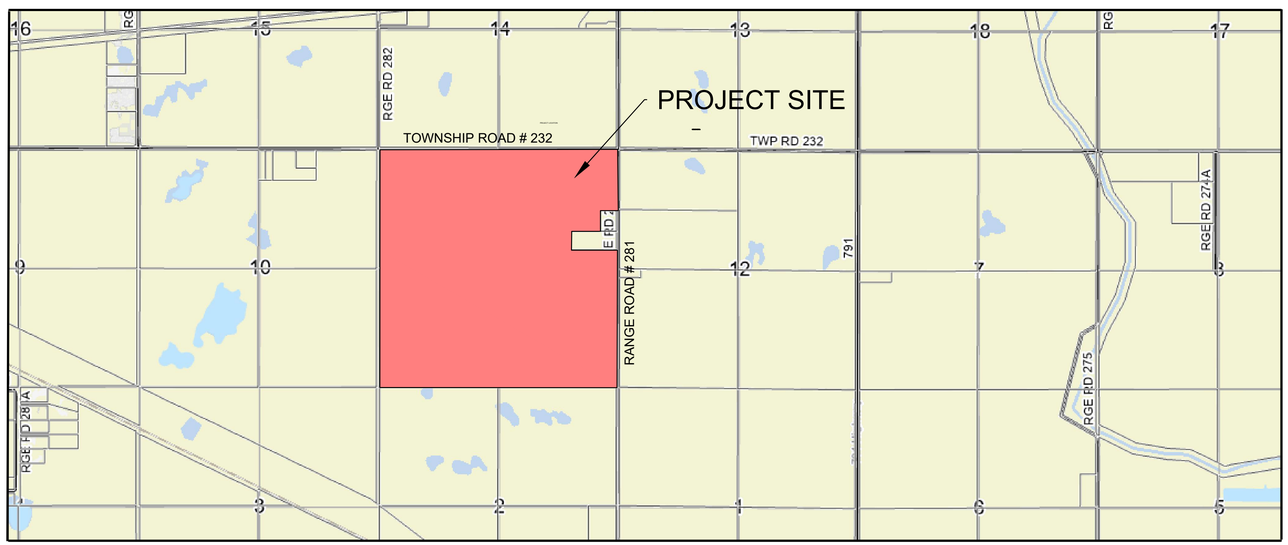
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Co-founder

Co-Founder of Beacon, leads market entry and development across the portfolio.

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Leads site identification, permits acquisition and community engagement.



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Local employment opportunity through **1500+** construction jobs and **300+** operational jobs.

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$7B investment by Beacon Data Centres, and opportunity for other investment avenues by attracting related services and business.

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Increased tax revenue for the County to fund public services and infrastructure projects.

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624.99–acre Project Footprint.

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BEACON AI CENTERS

The Technology

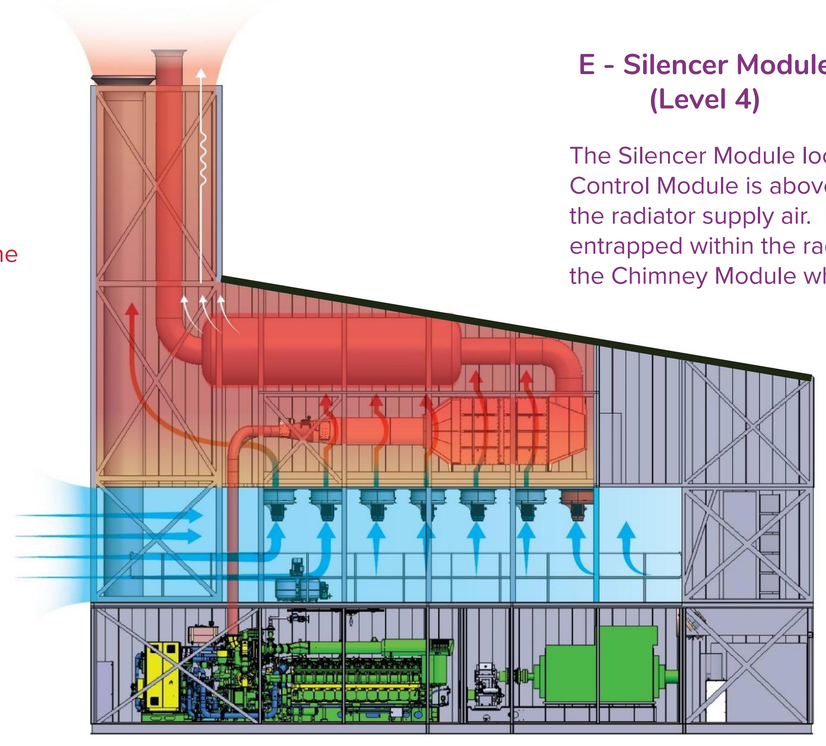
The technoligically advanced Volta Grid modularized QPAC with the Jenbacker J624 Natural Gas Engine.

Noise Assessment

A detailed noise impact assessment will be undertaken during both the construction and operational phases in compliance with regulatory noise limits contained within Alberta Utilities Commission (AUC) Rule .012.

Air Quality

A dispersion modeling assessment, in compliance with the Alberta Air Quality Modeling Guidelines (AQMG) will be undertaken to evaluate the impact on air quality and to meet the requirements of the National Base Level Emissions Requirements (BLIERS).



E - Silencer Module (Level 4)

The Silencer Module located on the fourth floor above the Emissions Control Module is above the radiator to prevent pre-heating of the radiator supply air. Radiant heat from the exhaust silencer is entrapped within the radiator exhaust air and directed toward the Chimney Module where it exits out the top of the Qpac5.

F - Chimney Module

The Chimney Module contains the structure to support the genset ventilation duct, exhaust piping, and forms the radiator exhaust airflow chimney.

C- Radiator & Air Filtration Module (Level 2)

The Radiator & Air Filtration Module iocated above the Engine Module and Power Conversion Module aids in minimizing the Qpac5. Large open space is provided beneath the radiators to ensure an adequate supply of ambient air to the radiator cores.

A - Engine Module

The Engine Module, located at ground level contains the Jenbacher J624 natural gas engine and balance of plant components. An overhead bridge crane integrated into the interior roof of the module allows for easy maintenance of the engine.

D- Emissions Control Module (Level 3)

The Emissions Control Module is located on the third floor above the Radiator & Air Filtration Module to prevent pre-heating of the radiator supply air. Radiant heat from the exhaust piping and SCR is entrapped within the radiator exhaust air and directed toward the Chimney Module where it exits out the top of the Qpac5.

B - Power Conversion Module (Level 1)

The Power Conversion Module contains the gearbox, alternator, low voltage power distribution, ventilation fans. and are strategically located to minimize cable lengths and ensure separation between medium and low voltage equipment while minimizing the Qpac5 footprint.

Next Steps

BEACON AI CENTERS

Thank you for attending the Open House

Project Timeline (2025 - 2028)

NOV 2024 — November 12th, 2024 Rocky View County authorized preparation of the Beacon AI Hub Area Structure Plan.

JUNE 2025 — RockyView County redesignated the lands to Special - Data Center District ‘S-DAT’. June 17th, 2025 by Rocky View County.

TODAY — **OPEN HOUSE**

NOV 2025 — Submit Application to Alberta Utilities Commission for consideration.

Q2 - 2026 — Submit Development Permit Application to RockyView County for Data Center and Gas Generation development approval.

Q1 - 2028 — Data Center energized.

For more information, please contact:

BEACON AI CENTERS

Beacon Data Center Inc.
1 (866) 594-9982 (Toll Free)
Indus@BeaconDataCenters.com

Local Benefits

BEACON AI CENTERS

The Indus AI Hub will be a significant asset to the local area, driving economic growth, enhancing technological infrastructure, and contributing positively to the community and environment.

Economic Development

- The presence of an AI data center hub will help attract other tech companies and startups to the area, fostering a tech ecosystem and furthering innovation.
- Transformative supply chain opportunities for local companies with increased demand for construction, mechanical/electrical, landscaping and professional services.
- World Class telecommunication infrastructure due to fibre upgrades for public services, businesses and residents.

Community Benefits

- Significant revenue generation for Rocky View County and Government of Alberta.
- Partnership opportunities with local educational institutions to offer training rams and internships.
- Dedicated corporate giving for important community initiatives

AUC
Alberta Utilities Commission



Participating in the AUC's independent review process to consider facility applications

www.auc.ab.ca

The AUC regulatory review process to consider facility applications for utility projects

The AUC uses an established process to review social, economic and environmental impacts of facility projects to decide if approval of a project is in the public interest.

The AUC considers applications requesting approval of the need for transmission development and facilities applications seeking approval to construct, operate, alter and decommission electric and natural gas facilities. Applications, as specified in AUC Rule 007, are required for:

- The need for transmission upgrades.
- The route and location of transmission facilities.
- The siting of power plants.
- The construction of a battery storage system.
- The designation of an industrial system.
- The need for and siting of natural gas utility pipelines.

Sometimes the Alberta Electric System Operator's needs identification document application is considered together with a facility application in a single proceeding; sometimes separate proceedings are held to consider each application.

Application review process

Step 1: Public consultation prior to applying to the AUC

Step 2: Application filed to the AUC

Step 3: Public notice

Step 4: Public submissions to the AUC

Step 5: Consultation and negotiation

Step 6: The public hearing process

Step 7: The decision

Step 8: Opportunity to appeal

Step 9: Construction, operation and compliance

Application review process

Step 1: Public consultation prior to applying to the AUC

An applicant seeking approval of a proposed utility development project is required to engage in a participant involvement program prior to filing an application with the AUC. The public involvement program involves consultation with persons whose rights may be directly and adversely affected by the proposed project so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the public consultation, also called a participant involvement program. Early, active and ongoing discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

Step 2: Application filed to the AUC

When the applicant has concluded its consultation with potentially affected parties and the participant involvement requirements have been completed, the applicant files its application through the AUC online public filing system, called the eFiling System.

AUC staff members review each application submitted to verify that all of the application requirements in Rule 007 have been met before an application is deemed complete. If all of the required information is not provided, the application may be closed or missing information will be requested of the applicant. Rule 007 specifies, among other requirements, that applicants must submit the results of a public involvement program in its application that includes information about how applicants consulted and notified stakeholders and Indigenous groups and identifies any unresolved objections and concerns about the project.

Step 3: Public notice

When the AUC receives an application it is assigned a proceeding number and the AUC generally mails a notice of application directly to those who live, operate a business or occupy land in the project area who may be directly and adversely affected if the AUC approves the application. The notice initiates the opportunity for formal intervention in the proceeding to consider an application or applications. The notice of application will also set out important dates and information about where to find the application and other items being considered. The five-digit eFiling System proceeding number in the notice is the most efficient way to find information about a proposed project through the AUC website.

Step 4: Public submissions to the AUC

Prior to the submission deadline provided in the notice, formal submissions of outstanding concerns and unresolved objections about a project may be submitted to the AUC. To submit a concern, participants will need to register to participate in the proceeding, which involves providing a brief written statement called a statement of intent to participate. Submissions are filed electronically through the eFiling System. The information filed becomes part of the public record and is an important part of the process to ensure that outstanding concerns are heard, understood and considered.

The AUC uses the information gathered through statement of intent to participate submissions to decide whether to hold a hearing on the application(s). The AUC must hold a hearing if a concerned person can demonstrate that they have rights that may be directly or adversely affected by the AUC's decision on the application. Such a person is said to have standing before the AUC. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to ask the applicant questions on the public record and present their position on the application either in writing or in person. Hearings may

be held in writing, in person or virtually through web-conference software.

AUC eFiling System

The eFiling System is the online tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application. The system is also used to submit your concerns and provide input to the AUC and can be used to monitor related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

Step 5: Consultation and negotiation (if applicable)

The AUC supports efforts to reach a mutually agreeable outcome among the applicant and affected parties. The AUC encourages the applicant and those who have filed a statement of intent to participate to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed in an AUC hearing.

Step 6: The public hearing process

The AUC will issue a notice of hearing if a person with standing continues to have legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location, or specify if the hearing will be held in writing or virtually. When the AUC holds a public hearing, registered parties are given the opportunity to express their views directly to a panel of Commission members. Any member of the public can listen to an in-person or virtual oral hearing. An oral public hearing operates similar to a court proceeding.

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

Cost assistance

A person determined by the AUC to have standing or a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Rules on Local Intervener Costs*, recovery of costs is subject to the AUC's assessment of the value of the contribution provided by the lawyer and technical experts in assisting the AUC to understand the specifics of the case. It is also subject to the AUC's published scale of costs.

People with similar interests and positions are expected and encouraged to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

Step 7: The decision

The AUC's goal is to issue its written decision no more than 90 days after the close of record. The AUC can approve, or deny an application and can also make its approval conditional upon terms or conditions. AUC decisions are publicly available through the AUC website at www.auc.ab.ca.

Step 8: Opportunity to appeal

An applicant or participant in a proceeding may formally ask the Court of Appeal of Alberta for permission to appeal an AUC decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or participant in a proceeding can also ask the AUC to review its decision. An application to review a decision must be filed within 30 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review of Commission Decisions*.

Step 9: Construction, operation and compliance

An applicant that receives approval to build and operate a facility from the AUC is expected to follow through on any commitments it has made to parties and must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website.

www.auc.ab.ca

Updated March 2024

The Alberta Utilities Commission is an independent, quasi-judicial agency of the government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

We are committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.

AUC
Alberta Utilities Commission

Contact us

Phone: 310-4AUC
1-833-511-4282 (outside Alberta)
info@auc.ab.ca
www.auc.ab.ca

Eau Claire Tower
1400, 600 Third Avenue S.W.
Calgary, Alberta T2P 0G5

Appendix J:

Open House Materials

COMMUNITY OPEN HOUSE

INDUS AI Hub and Gas Powered Electrical Generation Facility

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Date: November 24th, 2025
Time: 6:00 PM to 8:00 PM
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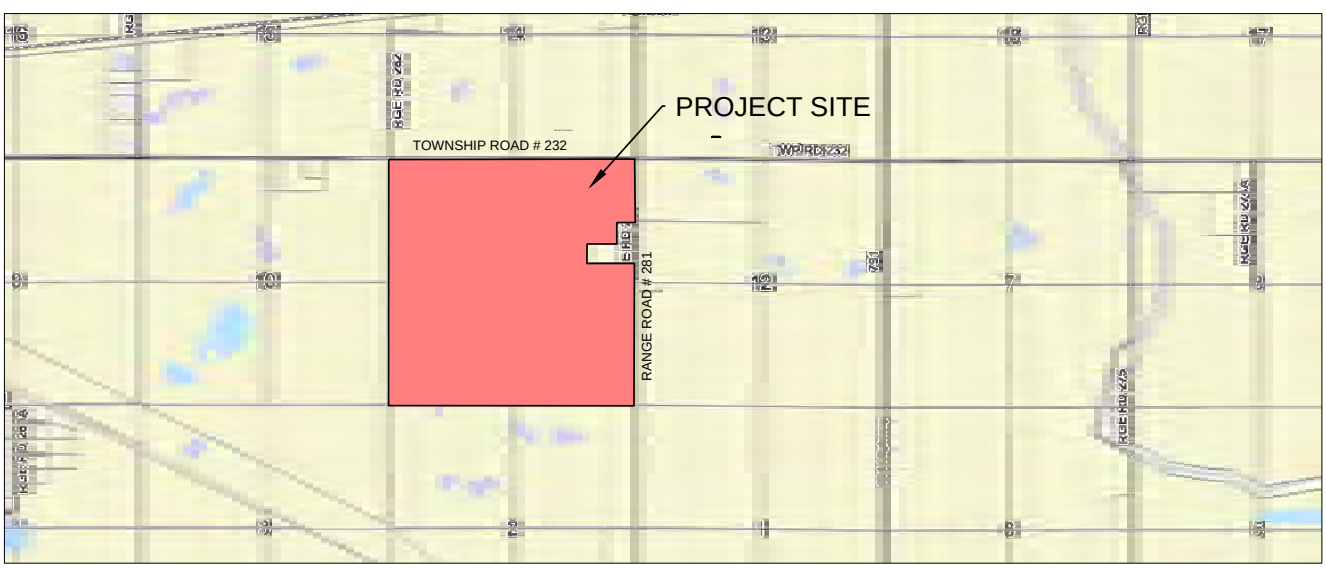
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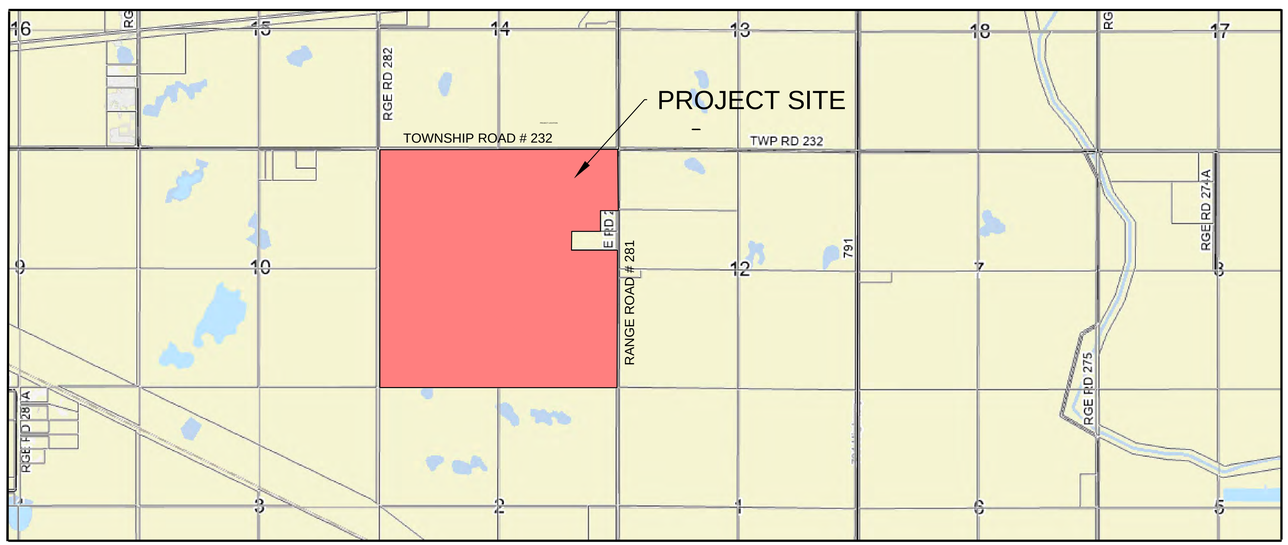
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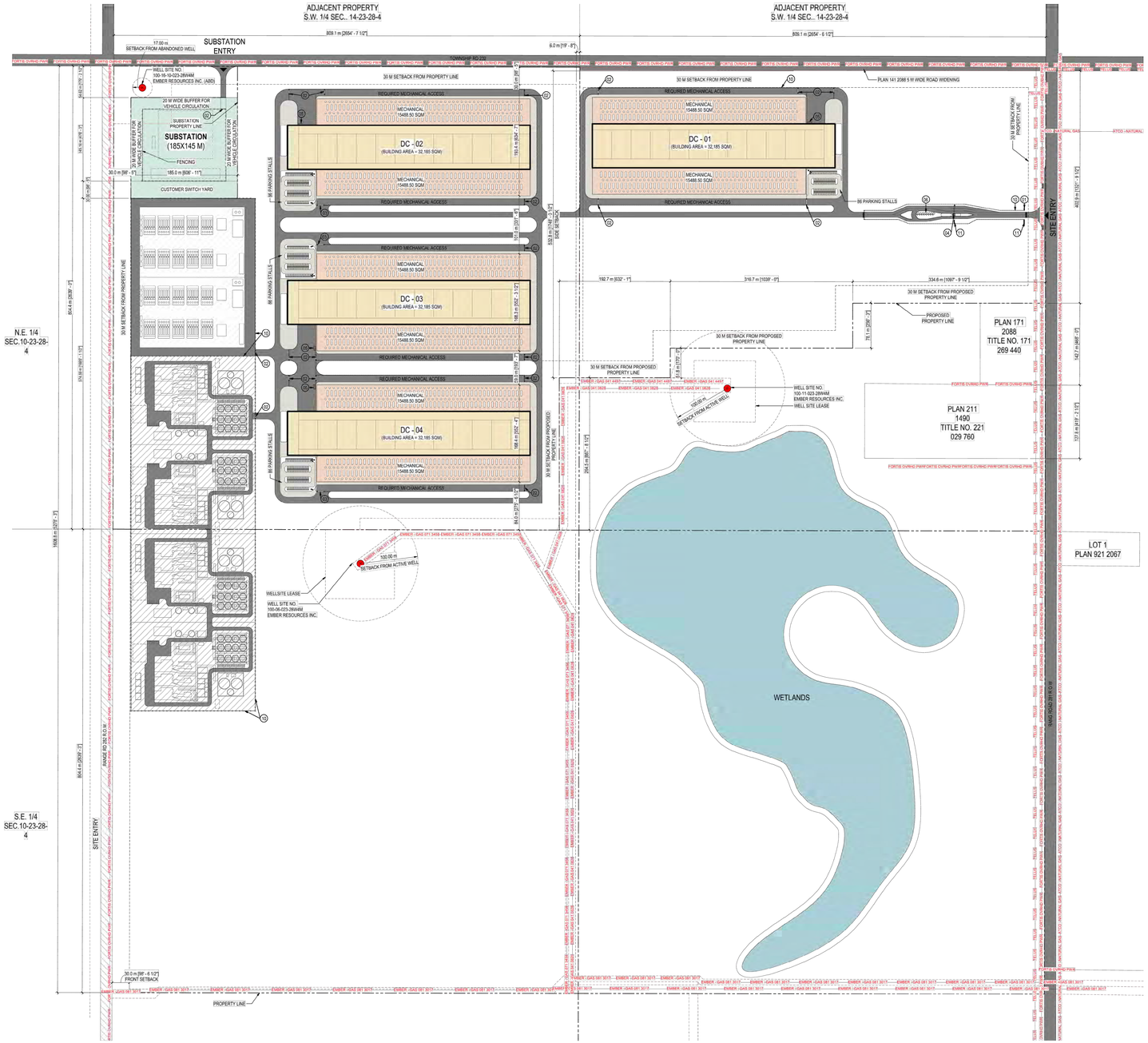
Gas to Electric Gas Generation

Development Footprint

624.99 –acre Project Footprint.

Indus

BEACON AI CENTERS



SITE INFORMATION

PROPOSED DEVELOPMENT OF A DATA CENTRE		
NUMBER OF FLOORS	1	
MUNICIPAL ADDRESS		
LEGAL LOT DESCRIPTION		
ZONING	I4 MEDIUM INDUSTRIAL SERVICED DISTRICT	SOURCE: ROCKY VIEW COUNTY LAND USE BYLAW
TYPE	DATA PROCESSING FACILITY	SOURCE: ROCKY VIEW COUNTY LAND USE BYLAW
TYPE OF LAND USE	I4 TBC	SOURCE: ROCKY VIEW COUNTY LAND USE BYLAW
OCCUPANCY GROUP	GROUP 4 DIVISION 3	
DISCRETIONARY USE	LIGHT INDUSTRIAL TBC	

BUILDING AND LAND USE REQUIREMENTS

	BYLAW REQUIREMENT	PROVIDED	SOURCE: ROCKY VIEW COUNTY (2025)
LOT AREA	-	649,282 SQM (160 ACRES)	
LOT FRONTAGE	-		
FRONT SETBACK	6.0 M	50 M	441
REAR SETBACK	6.0 M	65 M	441
SIDE SETBACK (WEST)	6.0 M	115 M	441
SIDE SETBACK (EAST)	6.0 M	20 M	441
SITE COVERAGE		36.00%	
GROSS FLOOR AREA (COUNTING THE FOOTPRINT OF ELEVATORS, STAIRCASES, AND SERVICE SHAFTS ONCE)		463,750 SQ M (66,250 SQM X 7 QTS.)	
TOTAL MAIN FLOOR AREA (COUNTING THE STAIRCASES AND ELEVATORS)		233,848 SQ M	
FLOOR AREA RATIO	N/A	0.71	N/A
BUILDING HEIGHT (MEASURED TO THE TOP OF THE ROOF SHEATHING)	AT THE DISCRETION OF THE DEVELOPMENT AUTHORITY	52' (15.8 M)	440.a

PARKING REQUIREMENTS

	BYLAW REQUIREMENT	PROVIDED	SOURCE: ROCKY VIEW COUNTY LAND USE BYLAW
GENERAL PARKING (1.5 PER PERMANENT EMPLOYEE WORKING FULL TIME AT PEAK HRS.)	TBD	TBD	236 TABLE 5 - PARKING MINIMUMS
ACCESSIBLE PARKING STALLS	TBD	TBD	ALBERTA BUILDING CODE 2023, TABLE 3.8.2.5
LOADING STALLS	TBD	TBD	239 TABLE 6 - PARKING MINIMUMS
BICYCLE STALLS	TBD	TBD	239 TABLE 6 - PARKING MINIMUMS
ANGLE OF PARKING (DEGREES)	30, 45, 60, 90		239 TABLE 6 - PARKING MINIMUMS
MINIMUM REQUIRED STALL WIDTH (M)	2.6 M		239 TABLE 6 - PARKING MINIMUMS
MINIMUM REQUIRED CURB LENGTH PER CAR (M) (REGULAR STALL)	2.6 M		239 TABLE 6 - PARKING MINIMUMS
MINIMUM REQUIRED DRIVEWAY WIDTH FOR 90 DEG PARKING	6 M		239 TABLE 6 - PARKING MINIMUMS
MINIMUM REQUIRED DRIVEWAY WIDTH (M) FOR 60 DEGREE PARKING	6.5 M		239 TABLE 6 - PARKING MINIMUMS
MINIMUM REQUIRED DRIVEWAY WIDTH (M) FOR 45 DEGREE PARKING	6.5 M		239 TABLE 6 - PARKING MINIMUMS
MINIMUM REQUIRED DRIVEWAY WIDTH (M) FOR 30 DEGREE PARKING	5 M		239 TABLE 6 - PARKING MINIMUMS

LANDSCAPING REQUIREMENTS

	BYLAW REQUIREMENT	PROVIDED	SOURCE: ROCKY VIEW COUNTY (2025)
MINIMUM LANDSCAPING AREA	6M OF UNINTERUPTED LANDSCAPING ADJACENT TO ANY ROAD	TBD	TABLE 7 LANDSCAPING STANDARDS
TREES	1 TREE FOR EVERY 40 M2 OF LANDSCAPED AREA TO A MINIMUM OF 4 TREES	TBD	TABLE 7 LANDSCAPING STANDARDS
SHRUBS	1 SHRUB FOR EVERY 60 M2 OF LANDSCAPED AREA	TBD	TABLE 7 LANDSCAPING STANDARDS
MINIMUM TREE SIZE	DECIDUOUS TREES TO BE 63 MM CALIPER MEASURED 450 MM GROM GROUND LEVEL AND CONIFEROUS TREES SHALL BE A MINIMUM OF 2.5M IN HEIGHT	TBD	TABLE 7 LANDSCAPING STANDARDS

KEYNOTES - SITEPLAN	
KEY VALUE	DESCRIPTION
01	MAIN GATE
02	SECURITY GATE -9 M WIDE
03	SECURITY GATE - 13 M WIDE
04	SECURITY CABIN
05	GARBAGE BINS
06	VISITOR PARKING AT ENTRANCE
10	FENCING
11	SIGNAGE

Gas Generation

BEACON AI CENTERS

The Technology

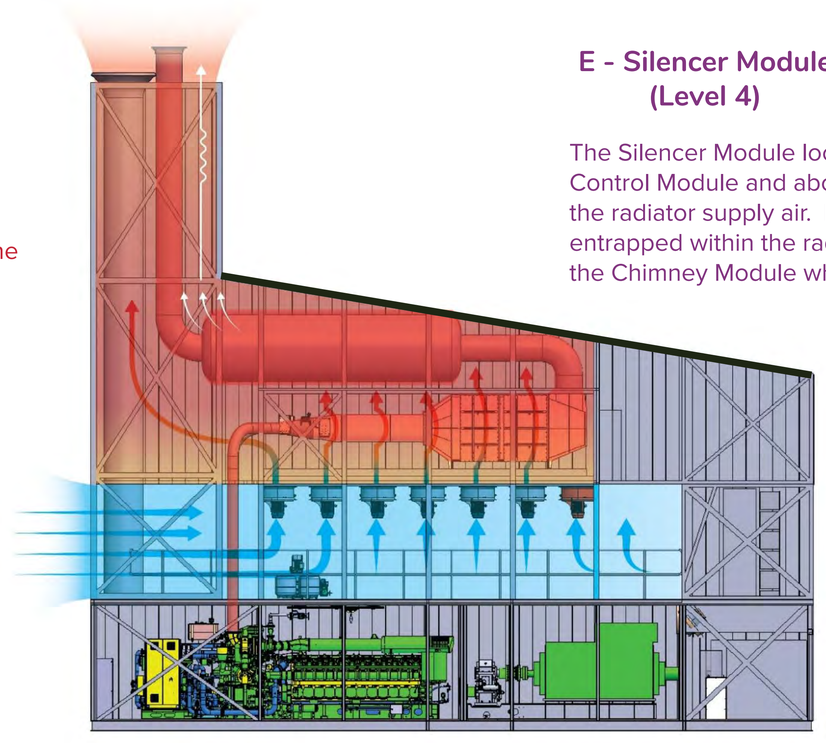
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The Chimney Module contains the structure to support the genset ventilation duct, exhaust piping, and forms the radiator exhaust airflow chimney.

C- Radiator & Air Filtration Module (Level 2)

The Radiator & Air Filtration Module iocated above the Engine Module and Power Conversion Module aids in minimizing the Qpac5. Large open space is provided beneath the radiators to ensure an adequate supply of ambient air to the radiator cores.

A - Engine Module

The Engine Module, located at ground level contains the Jenbacher J624 natural gas engine and balance of plant components. An overhead bridge crane integrated into the interior roof of the module allows for easy maintenance of the engine.

E - Silencer Module (Level 4)

The Silencer Module located on the fourth floor above the Emissions Control Module and above the radiator to prevent pre-heating of the radiator supply air. Radiant heat from the exhaust silencer is entrapped within the radiator exhaust air and directed toward the Chimney Module where it exits out the top of the Qpac5.

D- Emissions Control Module (Level 3)

The Emissions Control Module is located on the third floor above the Radiator & Air Filtration Module to prevent pre-heating of the radiator supply air. Radiant heat from the exhaust piping and SCR is entrapped within the radiator exhaust air and directed toward the Chimney Module where it exits out the top of the Qpac5.

B - Power Conversion Module (Level 1)

The Power Conversion Module contains the gearbox, alternator, low voltage power distribution, ventilation fans. and are strategically located to minimize cable lengths and ensure separation between medium and low voltage equipment while minimizing the Qpac5 footprint.

Gas Generation

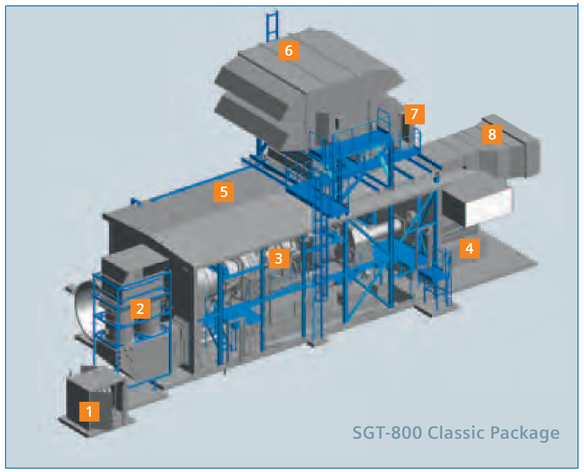
BEACON AI CENTERS

The Technology

The technoligically advanced Siemans SGT-800 Gas Turbine

Noise Assessment

A detailed noise impact assessment will be undertaken during both the construction and operational phases in compliance with regulatory noise limits contained within Alberta Utilities Commission (AUC) Rule .012.



SGT-800 Classic Package

SGT-800 Classic Package
1 – CO_2 Fire extinguishing cabinet
2 – Ventilation outlet
3 – Turbine
4 – Generator
5 – Enclosure
6 – Air intake
7 – Ventilation inlet
8 – Generator ventilation

Width enclosure:	7,290mm
Height enclosure:	6,825mm
Length enclosure:	15,773mm
Width (enclosure to generator air outlet):	8,012mm
Height (from ground to top of air intake (not including piping structure)):	13,402mm
Length (from exhaust to air inlet generator):	26,178mm



Air Quality

A dispersion modeling assessment, in compliance with the Alberta Air Quality Modeling Guidelines (AQMG) will be undertaken to evaluate the impact on air quality and to meet the requirements of the National Base Level Emissions Requirements (BLIERS).

High Efficiency

- *High Efficiency*
- *Sustainable & Future Proof*
- *Proven Reliability*
- *Proven long term record with hundreds of successful installations around the world.*

Alberta Utilities Commission



Participating in the AUC's independent review process to consider facility applications

www.auc.ab.ca

The AUC regulatory review process to consider facility applications for utility projects

The AUC uses an established process to review social, economic and environmental impacts of facility projects to decide if approval of a project is in the public interest.

The AUC considers applications requesting approval of the need for transmission development and facilities applications seeking approval to construct, operate, alter and decommission electric and natural gas facilities. Applications, as specified in AUC Rule 007, are required for:

- The need for transmission upgrades.
- The route and location of transmission facilities.
- The siting of power plants.
- The construction of a battery storage system.
- The designation of an industrial system.
- The need for and siting of natural gas utility pipelines.

Sometimes the Alberta Electric System Operator's needs identification document application is considered together with a facility application in a single proceeding; sometimes separate proceedings are held to consider each application.

Application review process

Step 1: Public consultation prior to applying to the AUC

Step 2: Application filed to the AUC

Step 3: Public notice

Step 4: Public submissions to the AUC

Step 5: Consultation and negotiation

Step 6: The public hearing process

Step 7: The decision

Step 8: Opportunity to appeal

Step 9: Construction, operation and compliance

Application review process

Step 1: Public consultation prior to applying to the AUC

An applicant seeking approval of a proposed utility development project is required to engage in a participant involvement program prior to filing an application with the AUC. The public involvement program involves consultation with persons whose rights may be directly and adversely affected by the proposed project so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the public consultation, also called a participant involvement program. Early, active and ongoing discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

Step 2: Application filed to the AUC

When the applicant has concluded its consultation with potentially affected parties and the participant involvement requirements have been completed, the applicant files its application through the AUC online public filing system, called the eFiling System.

AUC staff members review each application submitted to verify that all of the application requirements in Rule 007 have been met before an application is deemed complete. If all of the required information is not provided, the application may be closed or missing information will be requested of the applicant. Rule 007 specifies, among other requirements, that applicants must submit the results of a public involvement program in its application that includes information about how applicants consulted and notified stakeholders and Indigenous groups and identifies any unresolved objections and concerns about the project.

Step 3: Public notice

When the AUC receives an application it is assigned a proceeding number and the AUC generally mails a notice of application directly to those who live, operate a business or occupy land in the project area who may be directly and adversely affected if the AUC approves the application. The notice initiates the opportunity for formal intervention in the proceeding to consider an application or applications. The notice of application will also set out important dates and information about where to find the application and other items being considered. The five-digit eFiling System proceeding number in the notice is the most efficient way to find information about a proposed project through the AUC website.

Step 4: Public submissions to the AUC

Prior to the submission deadline provided in the notice, formal submissions of outstanding concerns and unresolved objections about a project may be submitted to the AUC. To submit a concern, participants will need to register to participate in the proceeding, which involves providing a brief written statement called a statement of intent to participate. Submissions are filed electronically through the eFiling System. The information filed becomes part of the public record and is an important part of the process to ensure that outstanding concerns are heard, understood and considered.

The AUC uses the information gathered through statement of intent to participate submissions to decide whether to hold a hearing on the application(s). The AUC must hold a hearing if a concerned person can demonstrate that they have rights that may be directly or adversely affected by the AUC's decision on the application. Such a person is said to have standing before the AUC. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to ask the applicant questions on the public record and present their position on the application either in writing or in person. Hearings may

be held in writing, in person or virtually through web-conference software.

AUC eFiling System

The eFiling System is the online tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application. The system is also used to submit your concerns and provide input to the AUC and can be used to monitor related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

Step 5: Consultation and negotiation (if applicable)

The AUC supports efforts to reach a mutually agreeable outcome among the applicant and affected parties. The AUC encourages the applicant and those who have filed a statement of intent to participate to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed in an AUC hearing.

Step 6: The public hearing process

The AUC will issue a notice of hearing if a person with standing continues to have legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location, or specify if the hearing will be held in writing or virtually. When the AUC holds a public hearing, registered parties are given the opportunity to express their views directly to a panel of Commission members. Any member of the public can listen to an in-person or virtual oral hearing. An oral public hearing operates similar to a court proceeding.

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

Cost assistance

A person determined by the AUC to have standing or a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Rules on Local Intervener Costs*, recovery of costs is subject to the AUC's assessment of the value of the contribution provided by the lawyer and technical experts in assisting the AUC to understand the specifics of the case. It is also subject to the AUC's published scale of costs.

People with similar interests and positions are expected and encouraged to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

Step 7: The decision

The AUC's goal is to issue its written decision no more than 90 days after the close of record. The AUC can approve, or deny an application and can also make its approval conditional upon terms or conditions. AUC decisions are publicly available through the AUC website at www.auc.ab.ca.

Step 8: Opportunity to appeal

An applicant or participant in a proceeding may formally ask the Court of Appeal of Alberta for permission to appeal an AUC decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or participant in a proceeding can also ask the AUC to review its decision. An application to review a decision must be filed within 30 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review of Commission Decisions*.

Step 9: Construction, operation and compliance

An applicant that receives approval to build and operate a facility from the AUC is expected to follow through on any commitments it has made to parties and must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website.

www.auc.ab.ca

Updated March 2024

The Alberta Utilities Commission is an independent, quasi-judicial agency of the government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

We are committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.

AUC
Alberta Utilities Commission

Contact us

Phone: 310-4AUC
1-833-511-4282 (outside Alberta)
info@auc.ab.ca
www.auc.ab.ca

Eau Claire Tower
1400, 600 Third Avenue S.W.
Calgary, Alberta T2P 0G5

Next Steps

BEACON AI CENTERS

Thank you for attending the Open House

Project Timeline (2025 - 2028)

NOV 2024 — November 12th, 2024 Rocky View County authorized preparation of the Beacon AI Hub Area Structure Plan.

JUNE 2025 — RockyView County redesignated the lands to Special - Data Center District ‘S-DAT’. June 17th, 2025 by Rocky View County.

TODAY — **OPEN HOUSE**

NOV 2025 — Submit Application to Alberta Utilities Commission for consideration.

Q2 - 2026 — Submit Development Permit Application to RockyView County for Data Center and Gas Generation development approval.

Q1 - 2028 — Data Center energized.

For more information, please contact:

BEACON AI CENTERS

Beacon Data Center Inc.
1 (866) 594-9982 (Toll Free)
Indus@BeaconDataCenters.com

Local Benefits

BEACON AI CENTERS

The Indus AI Hub will be a significant asset to the local area, driving economic growth, enhancing technological infrastructure, and contributing positively to the community and environment.

Economic Development

- The presence of an AI data center hub will help attract other tech companies and startups to the area, fostering a tech ecosystem and furthering innovation.
- Transformative supply chain opportunities for local companies with increased demand for construction, mechanical/electrical, landscaping and professional services.
- World Class telecommunication infrastructure due to fibre upgrades for public services, businesses and residents.

Community Benefits

- Significant revenue generation for Rocky View County and Government of Alberta.
- Partnership opportunities with local educational institutions to offer training programs and internships.
- Dedicated corporate giving for important community initiatives

PLEASE SIGN-IN!

BEACON AI CENTERS

BEACON INDUS AI HUB OPEN HOUSE NOVEMBER 24th, 2025
INDUS, AB

NAME	PHONE	EMAIL	WOULD YOU LIKE PROJECT UPDATES?
Maggie Stuart Miller	[redacted]	[redacted]	Yes
[illegible]			[illegible]
Dave & Anita Sacco			Yes
[illegible]			
Beth Ratliff			YES
Trent Ratliff			YES
Jaunt Kyle			Yes
Aaron Latimer			YES
Paul Schnurr			Yes
[illegible]			
RICHARD WAGNER			Yes
KEN FRIESZ			yes

No notice

PLEASE NOTE! Your personal information is collected when you voluntarily complete our sign in sheet, and our survey response and is used in the same manner as any other personal information we collect in the course of responding to your requests. We will not send you any unsolicited electronic communication.

PLEASE SIGN-IN!

BEACON AI CENTERS

BEACON INDUS AI HUB OPEN HOUSE NOVEMBER 24th, 2025
INDUS, AB

NAME	PHONE	EMAIL	WOULD YOU LIKE PROJECT UPDATES?
Wayne Hillestad	[redacted]		
Vanessa Stang			✓
Dominic/Kennicott			
Donna/Drew Court			
Jason Reid			✓
Sheila Schindelka (Quigley)			✓
Sebastian Rysbroek			✓
Connie Chellie			✓
Ryan McInnis			✓
Bruce McIntosh			✓
Diane Enns			✓

PLEASE NOTE! Your personal information is collected when you voluntarily complete our sign-in sheet, and our survey responses and

Your Feedback!

BEACON AI CENTERS

Your opinion and views are important to us.

Do you have any comments, concerns or suggestions regarding this open house?

Not a good idea. Wrong use of land. Don't need more industrial.

Are there any comments, suggestions, concerns, or issues regarding this

- More info, less 'I don't know'. Giving wrong facts
- Timeline is laughable

Does the creation of business and employment opportunities that the Beacon Indus AI Hub will provide influence your decisions and views of the project?

Absolutely not

Have you been provided with sufficient information to form an opinion on the Beacon Indus AI Hub?

No - too many unknowns

Is there any additional information you would like to receive regarding the project?

Poor design, location and strategy

Please Note: Beacon Indus AI Hub truly appreciates the feed back you provide. While we welcome you to leave your comments with us you may provide your comments via email at a later date and we welcome that as well.

Please feel free to send your Feedback to indus@BeaconDataCenters.com.

Appendix K:

Open House Advertisement and Invitation

COMMUNITY OPEN HOUSE

INDUS AI Hub and Gas Powered Electrical Generation Facility

Please join us at the Open House to learn more about this exciting project.

Date: November 24th, 2025
Time: 6:00 PM to 8:00 PM
Location: Indus Recreation Center
Meeting Room
225155 Range Road # 281A
Indus, AB T1X 0H7

Please drop in at any time No registration is required

About the project:

Beacon AI Centers is developing a 1200MW Artificial Intelligence (AI) Data Center with a 1200MW Gas Powered Electrical Generation Facility.

The campus will consist of modular power units, secure buildings, advanced cooling systems, and fiber optic connections to create the computing foundation for the application of AI.

Project Location

Located on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.



Contact Information:
Beacon AI Centers
Indus@beacondatacenters.com

Crossfield mother celebrates World Children's Day with focus on inclusion

BY KAJAL DHANESHWARI
Staff Writer

World Children's Day, observed on November 20, 2025, holds special meaning for a Crossfield mother.

For Melissa Gagyi, the day highlights the vital role she plays in supporting her child, who was born blind, and in advocating for the idea that children with disabilities deserve the same opportunities for education, play, and independence as all other children.

Gagyi is a mother of three children, including her youngest Timothy Gagyi, who is six years old and living with sight loss.

"Timothy was born with a genetic condition called Leber Congenital Amaurosis (LCA), which is an autosomal recessive condition, so it is very rare and not something that we knew we carried before this," Gagyi shared.

There are many different gene types that are associated with LCA. Timothy's is CRB1.

The journey towards diagnosis didn't start for Timothy until he was four months old, and his parents noticed unusual eye movements known as nystagmus.

"We do our best to ensure that Timothy's experiences are similar to those of his sighted peers as much as possible, whether that's in school, play, or everyday activities," Gagyi said.

Gagyi understands that there are differences, and sometimes those differences become mere visible when they encounter environments that aren't designed with accessibility in mind.

"It can be challenging, and at times frustrating to see how many spaces and systems still overlook the needs of individuals who are blind or visually impaired," Gagyi said.

She added that "despite these obstacles, we focus on creating opportunities for Timothy to explore, learn, and participate fully because he deserves to experience the world with the same freedom and inclusion as any other child."

According to the Gagyi, the biggest challenge Timothy faces on a regular basis is the lack of understanding and knowledge about sight loss. "This has been most noticeable in the education setting."

She feels lucky to have an amazing EA who has been with Timothy since playschool. Gagyi says this invaluable supporter has earned her braille certification, and always goes above and beyond to support her son's learning every day.

"Despite this, we've faced challenges with the systems and funding in place, which limit the resources available to help Timothy truly thrive," Gagyi said.



BRIGHTER FUTURES – Melissa Gagyi champions accessibility for visually impaired children on World Children's Day.

"He often struggles to access essential services, such as orientation and mobility training to teach him safe navigation skills, time with a teacher for the visually impaired who can guide his classroom teacher in adapting materials, and timely access to braille supplies without long waits," she added.

Such gaps make it difficult for Timothy to reach his full potential regardless of the desire to thrive and the support he readily has available from the friends and family.

Some challenges Gagyi has been able to bridge some of these gaps by connecting with CNIB to access Orientation and Mobility support and advice on adapting materials.

Additionally, Gagyi also joined the Access to Education Coalition (AATEC), which is a parent run initiative that partners CNIB to advocate for accessible education for students living with sight loss.

"Despite the challenges, Timothy faces the world with joy and confidence, and we continue to advocate for a future where accessibility and inclusion are not privileges, but rights guaranteed to every child," Gagyi said.

World Children's Day signifies hope for a more inclusive world, one where every child regardless of ability has the resources, understanding and opportunities they need to reach their full potential.

"Every child deserves equal access to education, play, and opportunity, but creating that reality requires a community effort," she stated. "By learning about the barriers children like Timothy face and speaking up for accessibility and inclusion, you can help build a world that values every child's potential."

Gagyi encourages people to make a difference by visiting www.cnib.ca/en to sign the Charter of Rights of Children Who Are Blind or Low Vision, explore volunteer opportunities, or donate to support upcoming CNIB initiatives.

Timothy's first interaction with CNIB was with a music therapy group at seven months old. They have been a tremendous support navigating vision loss, and we've built a wonderful community thanks to them, Gagyi says.

COMMUNIT. .PE..OUSE

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Project Location Located on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.



Contact Information:
Beacon AI Centers
indus@beacondatacenters.com

Capital Committee discusses Rocky View's financial future

BY RYAN UYTDEWILLIGEN
Staff Writer

Rocky View County's (RVC) Capital Committee had their second meeting of the year and first with the newly elected council.

The committee oversees the planning, prioritization, and financing of long-term investments in infrastructure and tangible capital assets such as roads, bridges, recreation facilities, and fire stations.

All sitting councillors are members of this committee, with the previous meeting - there were two this year - taking place in June of 2025.

The committee will meet as needed during the County's budget preparation cycle between May and December.

David Marcial, Acting Manager of Strategy and Performance, and Brenda Bateman, Supervisor of Budget and Reporting both gave presentations.

Marcial noted that the County is transitioning to a significantly larger and more complex capital plan, with $537 million proposed for the 2026-2029 budget cycle (up from $108 million in the previous cycle).

See Financial future page 9

Appendix L:

December 2025 Stakeholder, Indigenous, Municipality and Association Follow up

December 18, 2025

Dear Stakeholder,

RE: Beacon AI Centers, Indus AI Hub and Gas-Powered Electrical Generation Facility

I am following up regarding the feedback we heard from the Indus AI Hub and Gas-Powered Electrical Generation Facility (the Project) Open House held Monday, November 24th, 2025, and Project Notification Packages sent November 20, 2025, as part of the Participant Involvement Program (PIP) for the application process to the Alberta Utilities Commission (AUC).

Project Overview

Beacon Data Centres Inc. is proposing to develop and operate a 1200-megawatt (MW) Artificial Intelligence (AI) Data Center with a 1200MW Gas Powered Electrical Generation Facility on private land located approximately seven kilometres west of Langdon, Alberta. The project location is on Section 11-23-28-4 which is directly south and adjacent to Township Road # 232 and west of Range Road # 281 in Rocky View County.

Enclosed in this package you will find the following information regarding the Project:

- **The AUC Brochure** *"Participating in the AUC's Independent Review Process to Consider Facility Applications"*

Further Details of Questions we Have Heard

What follows this summary is a detailed response table to the questions we have had to date on the Indus AI Hub project.

Toll Free 1 (866) 754-6835
indus@beacondatacenters.com
144, 140, 112 4th Avenue SW, Calgary, AB, T2P 3N3

Project Information Summary

• Project location and overview: The project will be situated on private agricultural land within the in the Special, Data Centre District (S-DAT) in Rocky View County, approximately seven kilometers west of Langdon.

• Noise impact and mitigation: Application Case cumulative sound level at all receptors meets the daytime and nighttime PSLs. Low-frequency noise (LFN) effect analysis is based on methods prescribed in AUC Rule 012 and Health Canada Noise Guidance. LFN effect is not expected at all receptors. The Project requires mitigation measures that are inherent in the designs to achieve compliance with the PSLs of AUC Rule 012.This NIA concludes that the Project complies with the AUC Rule 012 requirements.

• Air quality assessment: The primary substances of interest emitted by the Project are nitrogen oxides (NO_x), carbon monoxide (CO) and fine particulate matter ($PM_{2.5}$). Emissions of sulphur dioxide (SO_2) are considered negligible as the Project combusts sweet natural gas. The maximum predicted NO_2, CO, and $PM_{2.5}$ concentrations for all averaging periods associated with the Base Case and Application Case are below the AAAQO.

• Water usage: The project has an agreement with Langdon Waterworks Ltd. to receive 1500 cubic meters per day of potable water, addressing concerns about excessive water consumption by data centers.

• Consultation commitment: Beacon AI Centers commits to ongoing engagement with communities and stakeholders throughout the project's lifespan, providing updates and addressing inquiries.

• Supporting documentation: Detailed noise and air impact studies will be submitted as part of the formal AUC application expected by the end of 2025.

• Community engagement invitation: The company encourages continued dialogue and offers contact information for further discussion or questions regarding the project.

What We Heard

From discussions with communities, Nations, and stakeholders we heard the following key concerns.

Beacon Indus AI Center What did we hear?		
Key Concerns	**Specific Concern**	**Proponent Response/Mitigative Measure**
Land Use	Change of Land Use	The project is on private (freehold) land that has been used for agriculture for the past 60+ years. Additionally, the land is within the in the Special, Data Centre District (S-DAT) in Rocky View County. Geospatial data of the Special, Data Centre District (S-DAT) can be found in the Rocky View County Landuse Map No. 33. The project centre is at 53°56'35.58"N 113°48'25.81"W a google earth KMZ file is attached to this email.
Noise Impact	Impact that sound may have on neighbours, community or region.	Pursuant to AUC Rule 012, all regulated facilities are required to comply with the Permissible Sound Level (PSL) standards during both daytime (07:00 to 22:00) and nighttime (22:00 to 07:00) periods. Compliance must be demonstrated at a distance of 1.5 km (the 1.5 km criteria boundary) from the facility's boundary or at the location of the closest residential dwelling, whichever is nearer. For the purposes of this rule, dwellings are defined as structures that are permanently or seasonally occupied for human rest. The Project requires mitigation measures that are inherent in the designs to achieve compliance with the PSLs of AUC Rule 012. Mitigation measures will be implemented during Project design. The assessment results presented in the previous sections include the application of mitigation measures. Mitigation measures for Project Case components are summarized as follows: • Implementation of mitigation measures for the QPAC modulars to achieve 60 dBA at 10 m for each modular. This may be achieved in conjunction with the manufacturer supply

Beacon Indus AI Center What did we hear?		
Key Concerns	**Specific Concern**	**Proponent Response/Mitigative Measure**
		modifications, or implementation of additional mitigation measures for the original QPAC modulars, including additional genset exhaust silencers, genset ventilation exhaust silencers, acoustic louvers for radiator and air filtration module, and enhanced modular roof system. • Installation of additional silencers for HRSG stack outlets • Installation of additional silencers for Siemens GT air intake filter houses • Utilization of low-noise ACC units, or installation of silencers for ACC inlets and outlets to meet specified acoustic performance of ACC in Table 8 and Table A.1 • Installation of silencers for the generation building ventilation inlets and outlets • Installation of acoustic barriers on the east side of GSU transformers • Installation of silencers for the air-cooled chiller outlets • Installation of acoustic louvers for the air-cooled chiller inlets • Installation of acoustic barriers on the east and south sides of four data halls Noise effects from the Beacon AI Centers – Indus Project were assessed at eleven receptors R1 through R11. The PSLs for the receptors were determined according to the AUC Rule 012 requirements. Baseline Case sound levels at the receptors were determined using the prescribed ASL and existing third-party facilities noise effect based on the baseline field program. Noise model was compiled using manufacturers data, owner's engineering specifications and drawings, representative noise emission levels from similar equipment, and acoustic calculations. Cumulative sound levels of the Application Case were predicted and compared with the PSLs.

Beacon Indus AI Center What did we hear?		
Key Concerns	**Specific Concern**	**Proponent Response/Mitigative Measure**
		The modeling results indicate that the predicted cumulative sound levels of the Application Case meet the daytime and nighttime PSLs at all receptors. Also, based on AUC Rule 012 prescribed approach and Health Canada Noise Guidance, low frequency noise effect is not expected at all receptors. This NIA concludes that the Project complies with the AUC Rule 012 requirements. The full Noise effects study will become part of the AUC application that Beacon expects to submit by the end of 2025.
Air Impact	Impacts to air quality from the power generation proposed at the site.	Beacon plans to build and operate the Indus Data Center Project which includes a 1200 MW power generation facility located in Rocky View County approximately 8km west of Langdon, Alberta. Potential effects on ambient air quality associated with the Project were evaluated using the AERMOD dispersion model. Maximum ground-level concentrations of NO_2, CO and $PM_{2.5}$ were predicted and compared to the Alberta Environment and Protected Areas (AEPA) Ambient Air Quality Objectives and Guidelines (AAAQO/G; (AEPA 2024a)). The air quality assessment shows that maximum predicted ground-level concentrations for all substances of interest associated with emissions from the Project (the Project alone) are below the AAAQO/G for all relevant averaging periods (ranging between 0.5% and 20% of the AAAQO/G). The maximum predicted NO_2, CO, and $PM_{2.5}$ concentrations for all averaging periods associated with the Base Case and Application Case are below the AAAQO. A comparison

Beacon Indus AI Center What did we hear?		
Key Concerns	**Specific Concern**	**Proponent Response/Mitigative Measure**
		between maximum predicted concentrations for the Base Case and Application Case indicates small increases (up to 0.8%) to the maximum predicted NO_2, CO and $PM_{2.5}$ concentrations with the addition of the Project. The model results show that overall maximum concentrations in the study area are primarily attributable to emissions from the existing regional industrial facilities The full Air Impact study will become part of the AUC application that Beacon expects to submit by the end of 2025.
Water Usage	Project participants have read concerns that Data Centres use excessive amounts of water.	Beacon has an agreement with Langdon Waterworks Ltd. to receive 1500 cubic meters per day of potable water.
Consultation	When will consultation end.	Beacon is committed to continuing conversations with interested parties for the life of the project. As a new project in the Special, Data Centre District (S-DAT) we look forward to continuing to share project information, updates to the project, and to answer any questions interested parties may have.

Community Engagement

We wish to keep open communication with you and incorporate any feedback you may have in relation to the proposed project.

If you have any questions or wish to meet to discuss this project further, please contact me at *780-995-7339 or* *paulmc@elmatters.com* at your earliest convenience.

Sincerely,

Beacon AI Center – Indus Project
By its representative Environmental Leadership Matters

<original signed by>

Paul McLauchlin
Senior Engagement Specialist

AUC
Alberta Utilities Commission



Participating in the AUC's independent review process to consider facility applications

www.auc.ab.ca

The AUC regulatory review process to consider facility applications for utility projects

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- The route and location of transmission facilities.
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Step 1: Public consultation prior to applying to the AUC

Step 2: Application filed to the AUC

Step 3: Public notice

Step 4: Public submissions to the AUC

Step 5: Consultation and negotiation

Step 6: The public hearing process

Step 7: The decision

Step 8: Opportunity to appeal

Step 9: Construction, operation and compliance

Application review process

Step 1: Public consultation prior to applying to the AUC

An applicant seeking approval of a proposed utility development project is required to engage in a participant involvement program prior to filing an application with the AUC. The public involvement program involves consultation with persons whose rights may be directly and adversely affected by the proposed project so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the public consultation, also called a participant involvement program. Early, active and ongoing discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

Step 2: Application filed to the AUC

When the applicant has concluded its consultation with potentially affected parties and the participant involvement requirements have been completed, the applicant files its application through the AUC online public filing system, called the eFiling System.

AUC staff members review each application submitted to verify that all of the application requirements in Rule 007 have been met before an application is deemed complete. If all of the required information is not provided, the application may be closed or missing information will be requested of the applicant. Rule 007 specifies, among other requirements, that applicants must submit the results of a public involvement program in its application that includes information about how applicants consulted and notified stakeholders and Indigenous groups and identifies any unresolved objections and concerns about the project.

Step 3: Public notice

When the AUC receives an application it is assigned a proceeding number and the AUC generally mails a notice of application directly to those who live, operate a business or occupy land in the project area who may be directly and adversely affected if the AUC approves the application. The notice initiates the opportunity for formal intervention in the proceeding to consider an application or applications. The notice of application will also set out important dates and information about where to find the application and other items being considered. The five-digit eFiling System proceeding number in the notice is the most efficient way to find information about a proposed project through the AUC website.

Step 4: Public submissions to the AUC

Prior to the submission deadline provided in the notice, formal submissions of outstanding concerns and unresolved objections about a project may be submitted to the AUC. To submit a concern, participants will need to register to participate in the proceeding, which involves providing a brief written statement called a statement of intent to participate. Submissions are filed electronically through the eFiling System. The information filed becomes part of the public record and is an important part of the process to ensure that outstanding concerns are heard, understood and considered.

The AUC uses the information gathered through statement of intent to participate submissions to decide whether to hold a hearing on the application(s). The AUC must hold a hearing if a concerned person can demonstrate that they have rights that may be directly or adversely affected by the AUC's decision on the application. Such a person is said to have standing before the AUC. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to ask the applicant questions on the public record and present their position on the application either in writing or in person. Hearings may

be held in writing, in person or virtually through web-conference software.

AUC eFiling System

The eFiling System is the online tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application. The system is also used to submit your concerns and provide input to the AUC and can be used to monitor related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

Step 5: Consultation and negotiation (if applicable)

The AUC supports efforts to reach a mutually agreeable outcome among the applicant and affected parties. The AUC encourages the applicant and those who have filed a statement of intent to participate to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed in an AUC hearing.

Step 6: The public hearing process

The AUC will issue a notice of hearing if a person with standing continues to have legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location, or specify if the hearing will be held in writing or virtually. When the AUC holds a public hearing, registered parties are given the opportunity to express their views directly to a panel of Commission members. Any member of the public can listen to an in-person or virtual oral hearing. An oral public hearing operates similar to a court proceeding.

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

Cost assistance

A person determined by the AUC to have standing or a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Rules on Local Intervener Costs*, recovery of costs is subject to the AUC's assessment of the value of the contribution provided by the lawyer and technical experts in assisting the AUC to understand the specifics of the case. It is also subject to the AUC's published scale of costs.

People with similar interests and positions are expected and encouraged to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

Step 7: The decision

The AUC's goal is to issue its written decision no more than 90 days after the close of record. The AUC can approve, or deny an application and can also make its approval conditional upon terms or conditions. AUC decisions are publicly available through the AUC website at www.auc.ab.ca.

Step 8: Opportunity to appeal

An applicant or participant in a proceeding may formally ask the Court of Appeal of Alberta for permission to appeal an AUC decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or participant in a proceeding can also ask the AUC to review its decision. An application to review a decision must be filed within 30 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review of Commission Decisions*.

Step 9: Construction, operation and compliance

An applicant that receives approval to build and operate a facility from the AUC is expected to follow through on any commitments it has made to parties and must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website.

www.auc.ab.ca

Updated March 2024

The Alberta Utilities Commission is an independent, quasi-judicial agency of the government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

We are committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.

AUC
Alberta Utilities Commission

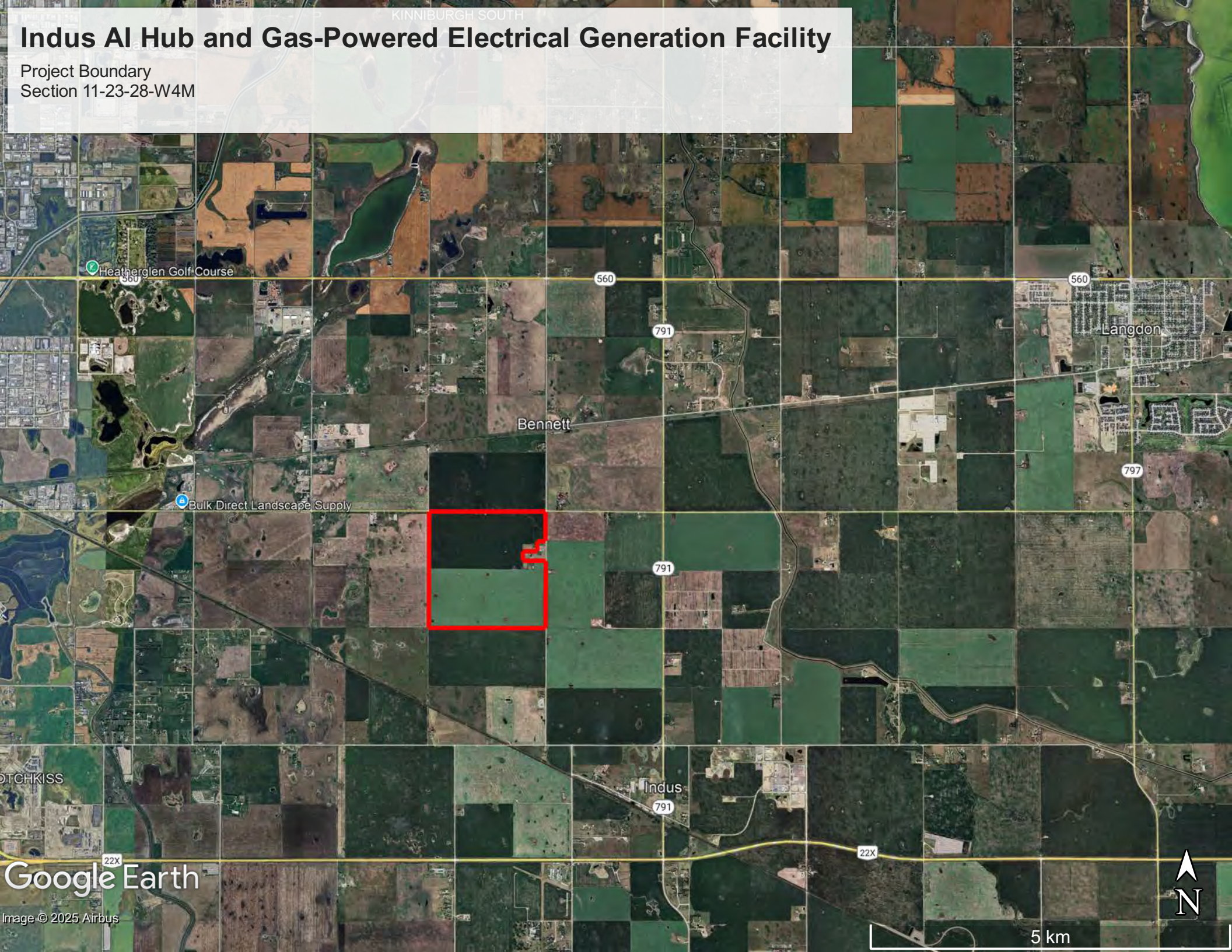
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Indus AI Hub and Gas-Powered Electrical Generation Facility

Project Boundary
Section 11-23-28-W4M



Appendix B - Air Quality Assessment

Beacon AI Centers - Indus Project
Air Quality Assessment

December 2025

Prepared for:
Beacon AI Centers
Calgary, AB

Prepared by:
Stantec Consulting Ltd.
Calgary, AB

Project/File:
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Stantec

Limitations and Sign-off

This document entitled Beacon AI Centers - Indus Project Air Quality Assessment was prepared by Stantec Consulting Ltd. ("Stantec") for the account of Beacon AI Centers (the "Client") to support the regulatory review process for its *Environmental Protection and Enhancement Act* (EPEA) Approval (the "Application") for the Beacon Power Generation Project (the "Project"). In connection therewith, this document may be reviewed and used by Alberta Environment and Protected Areas (AEPA) and the Alberta Utilities Commission (AUC) participating in the review process in the normal course of its duties. Except as set forth in the previous sentence, any reliance on this document by any other party or use of it for any other purpose is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The information and conclusions in the document are based on the conditions existing at the time the document was published and does not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by the Client or others, unless expressly stated otherwise in the document. Any use which another party makes of this document is the responsibility and risk of such party. Such party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other party as a result of decisions made or actions taken based on this document.

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RM APEGA ID #: 113862
DATE: December 19 2025
PERMIT NUMBER: P000258
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Executive Summary

Beacon AI Centers (Beacon) is proposing to construct, own and operate an electricity generation facility (the Project) within a data center campus near Langdon, Alberta. The Project is located 3 km east of Calgary, approximately 2 km northwest of Hamlet of Indus, Alberta, in the NW/SW and NE/SE 11-023-28 W4M. The Project will consist of two complementary power-generation technologies that include 400 MWe of generation from reciprocating engine generation pods (100 Jenbacher J624 natural gas engines) and 800 MWe of generation from combined cycle natural gas turbine generation systems (12 Siemens SGT-800 natural gas turbines with four condensing steam turbines). The total electrical site production features a capacity of 1,494 MWe, providing 1,200 MW of continuous, dispatchable electricity to the four on-site data centers as well as provincial power grid.

Stantec Consulting Ltd. (Stantec) was contracted by Beacon to conduct air dispersion modelling in support of an application for the *Environment Protection and Enhancement Act* (EPEA) approval. The dispersion modelling was performed in accordance with the current Alberta Environment and Protected Areas (AEPA) Air Quality Model Guideline (AQMG (AEP 2021a)). The dispersion modelling assessment was conducted with the objective of assessing the effects on ground-level concentrations for key substances of interest resulting from Project emissions compared to the Alberta Environment and Protected Areas (AEPA) Ambient Air Quality Objectives and Guidelines (AAAQO/G; (AEPA 2024a)). The primary substances of interest emitted by the Project are nitrogen oxides (NO_x), carbon monoxide (CO) and fine particulate matter ($PM_{2.5}$). Emissions of sulphur dioxide (SO_2) are considered negligible as the Project combusts sweet natural gas.

The air quality assessment shows that maximum predicted ground-level concentrations for all substances of interest associated with emissions from the Project (the Project alone) are below the AAAQO/G for all relevant averaging periods (ranging between 0.5% and 20% of the AAAQO/G).

The maximum predicted NO_2, CO, and $PM_{2.5}$ concentrations for all averaging periods associated with the Base Case and Application Case are below the AAAQO. A comparison between maximum predicted concentrations for the Base Case and Application Case indicates small increases (up to 0.8%) to the maximum predicted NO_2, CO and $PM_{2.5}$ concentrations with the addition of the Project. The modelling results show that overall maximum concentrations in the study area are primarily attributable to emissions from the existing regional industrial facilities.

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Acronyms / Abbreviations

AAAQO/G	Alberta Ambient Air Quality Objectives and Guidelines
AEIR	Annual Emissions Inventory Reporting
AEPA	Alberta Environment and Protected Areas, formerly Alberta Environment and Parks (AEP)
AQMG	Air Quality Model Guideline
ARM2	Ambient Ratio Method Version 2
asl	above sea level
Beacon	Beacon AI Centers
BPIP	Building Profile Input Program
ºC	degrees Celsius
CDEM	Canadian Digital Elevation Model
CO	Carbon Monoxide
CRAZ	Calgary Regional Airshed Zone
ECCC	Environment and Climate Change Canada
EPEA	Environmental Protection and Enhancement Act
g/s	grams per second
GJ	gigajoule
GTG	Siemens SGT-800 gas turbine generators
HRSG	heat recovery steam generator
K	Kelvin (measure of temperature)
kg	kilogram
kg/h	kilogram per hour
km	kilometre
kPa	kilopascal
kW	kilowatt
m	meter
m/s	meters per second
m^3	cubic meter
MMEU	Multi-Model Extraction Utility
MW	megawatt

MWh	megawatt hour
NAD	North American Datum
NO	nitric oxide (nitrogen monoxide)
NO_2	nitrogen dioxide
NO_X	nitrogen oxides (oxides of nitrogen)
NPRI	National Pollutant Release Inventory
OLM	Ozone Limiting Method
PVMRM	Plume Volume Molar Ratio Method
PRIME	Plume Rise Model Enhancements
The Project	the Beacon Power Generation Project
$PM_{2.5}$	fine particulate matter with aerodynamic particle diameter less than 2.5 microns
SCR	Selective Catalytic Reduction
SO_2	sulphur dioxide
Stantec	Stantec Consulting Ltd.
ST	steam turbine
t/d	tonnes per day
TCM	Total Conversion Method
TF/EE	transboundary flows/exceptional events
UTM	Universal Transverse Mercator
U.S. EPA	U.S. Environmental Protection Agency
WRF	Weather research and Forecasting
$\mu g/m^3$	microgram per cubic meter

1 Introduction

Beacon AI Centers (Beacon) is proposing to construct, own and operate an electricity generation facility (the Project) within a data center campus near Langdon, Alberta. The Project is located 3 km east of Calgary, approximately 2 km northwest of Hamlet of Indus, Alberta, in the NW/SW and NE/SE 11-023-28 W4M. The Project will consist of two complementary power-generation technologies that include 400 MWe of generation from reciprocating engine generation pods (100 Jenbacher J624 natural gas engines) and 800 MWe of generation from combined cycle natural gas turbine generation systems (12 Siemens SGT-800 natural gas turbines with four condensing steam turbines). The total electrical site production features a capacity of 1,494 MWe, providing 1,200 MW of continuous, dispatchable electricity to the four on-site data centers as well as provincial power grid.

Stantec Consulting Ltd. (Stantec) was contracted by Beacon to conduct air dispersion modelling in support of an application for the *Environment Protection and Enhancement Act* (EPEA) approval. The dispersion modelling was performed in accordance with the current Alberta Environment and Protected Areas (AEPA) Air Quality Model Guideline (AQMG (AEP 2021a)). The dispersion modelling assessment was conducted with the objective of assessing the effects on ground-level concentrations for key substances of interest resulting from Project emissions compared to the Alberta Environment and Protected Areas (AEPA) Ambient Air Quality Objectives and Guidelines (AAAQO/G; (AEPA 2024a)). The primary substances of interest emitted by the Project are nitrogen oxides (NO_x), carbon monoxide (CO) and fine particulate matter ($PM_{2.5}$). Emissions of sulphur dioxide (SO_2) are considered negligible as the Project combusts sweet natural gas.

The main objective of the study was to use plume dispersion modelling to assess potential effects on air quality from Project emissions. The air quality assessment focused on the following tasks:

- Summarizing regional air quality
- Calculating Project emissions and comparing emissions to provincial and federal emission standards
- Characterizing meteorological and surface conditions
- Completing plume dispersion modelling
- Assessing Project effects on ambient air quality in combination with existing nearby industrial sources and regional background concentrations in the study area

2 Regulatory Criteria

2.1 Ambient Air Quality Objectives

Air quality is assessed by comparing measured or predicted concentrations to objectives and standards. AEPA has established AAAQO/G for a number of substances. They are referred to as AAAQO/G (AEPA 2024a).

The Project is a source of NOx, CO and $PM_{2.5}$. Oxides of nitrogen are produced in most combustion processes and are almost entirely made up of nitric oxide (NO) and nitrogen dioxide (NO_2). Together they are often referred to as NOx. Nitrogen dioxide is a respiratory irritant, while NO is relatively inert. As such, regulatory ambient air quality objectives exist for NO_2, and not for NO or NOx. Table 2.1 presents the relevant AAAQO/G.

Table 2.1 Alberta Ambient Air Quality Objectives and Guidelines

Key Substance of Interest	Averaging Period	AAAQO/G [a] ($\mu g/m^3$)
NO_2	1-hour	300
	Annual	45
CO	1-hour	15,000
	8-Hour	6,000
$PM_{2.5}$	1-hour	80 [b]
	24-Hour	29

Notes:

Concentrations are in micrograms per cubic metre ($\mu g/m^3$) at 25 Celsius (°C) and 101.325 Kilopascal (kPa).

[a] Alberta Ambient Air Quality Objectives (AEPA (2024a)) unless otherwise stated.

[b] Alberta Ambient Air Quality Guideline (AEPA (2024a))

2.2 Interpretation of Predicted Concentrations

AEPA AQMG (AEP 2021a) recognizes that extreme, rare, and transient meteorological conditions can affect predicted 1-hour average ambient air concentrations. To address this issue, AEPA recommends "the highest eight 1-hour predicted average concentrations for each receptor in each single year should be disregarded". Therefore, for the assessment of 1-hour average concentrations, the 9th highest hourly values (equal to the 99.9th percentile) for each year at a given location are used to determine compliance with the 1-hour AAAQO/G.

For averaging periods greater than 1-hour (e.g., annual), no predicted exceedances of the AAAQO/G are viewed as being acceptable. Therefore, the maximum 8-hour, 24-hour, and annual average predicted concentrations are used in the assessment.

Five years of meteorological data is used as input to AERMOD dispersion model. Maximum predicted concentrations are determined for each year of output. The summary tables and figures in Section 6 show the results of the maximum of the five individual years.

3 Regional Setting

3.1 Study Area

The Project will be located approximately 2 km northwest of Hamlet of Indus, Alberta, and 3 km east of the City of Calgary. A 20 km by 20 km study area centered at the Project was selected for the air quality assessment to model the cumulative effects of the Project and other regional industrial facilities within the study area. The study area extents are based on the guidance in the AQMG (AEP 2021a).

Topography within the 20 km 20 km air quality study area is shown in Figure 3.1. The terrain is mostly flat within the study area, except along the Bow River that runs along the southern boundary of the study area where terrain slopes downhill along the river. The Project is located at a base elevation of 1,028 m above sea level (asl). Terrain elevations within the study area range from approximately 960 to 1080 m asl.

The Canadian Digital Elevation Model (CDEM) data (NRCan 2016), with approximately 30 m spatial resolution, was used to characterize the terrain in the study area and assign terrain elevations to emission sources and receptor points.

3.2 Background Ambient Air Quality

The background ambient air quality is the result of anthropogenic (man-made) and biogenic (natural) air emissions on a local, regional, and global scale. Representative background ambient air quality concentrations were determined based on analysis of regional ambient air quality monitoring data and were added to the model predicted concentrations to account for other emission sources (anthropogenic or biogenic) in and outside the study area that may not have been captured in the air dispersion modelling (e.g., emissions associated with distant industrial facilities or vehicle emissions on nearby roads). Major industrial sources within the study area are concentrated along its western edge and are included in the dispersion modeling assessment

The Project is located within the Calgary Regional Airshed Zone (CRAZ) in a rural setting. The eastern boundary of the City of Calgary is located along the western edge of the 20 km × 20 km study area. The CRAZ ambient monitoring stations are primarily located in urban centers such as Calgary, Airdrie, and Cochrane, where air quality is influenced by significant traffic volumes, residential and commercial heating, and industrial emissions. These stations are not considered representative of the Project location.

The next nearest ambient monitoring stations measuring the primary substances of interest are located in Brooks and Lethbridge. Brooks is a smaller town located in a rural setting similar to the study area. Continuous NO_2 and $PM_{2.5}$ data from Brooks stations (Brooks Airpointer and Brooks Meadow Place) and CO data from the Lethbridge station were obtained from the AEPA Data Management Platform (AEPA 2025a). Carbon monoxide (CO) is not measured at any CRAZ station outside Calgary and is also not monitored at Brooks stations. Although the Lethbridge station is located within an urban area, the City of

Lethbridge is smaller than Calgary and has lower traffic volumes and fewer industrial emissions, making it more representative than Calgary for this purpose.

Ambient data representing the most recent three-year period (2022–2024) with a complete record were analyzed in accordance with the Air Quality Model Guideline (AQMG; AEP 2021a) to determine background concentrations. The Brooks Airpointer station provides data from January 2022 through September 2024, while the Brooks Meadow Place station began operation in September 2024. For NO_2 and $PM_{2.5}$, data from January 2022 to August 2024 were obtained from the Brooks Airpointer station, and data from September to December 2024 were obtained from the Brooks Meadow Place station.

The background ambient air concentrations for the study area are summarized and compared to the AAAQO in Table 3.1. The background NO_2 concentrations are 6% and 12% of the 1-hour and annual AAAQO, respectively. The background CO concentrations are 2% and 6% of the 1-hour and 8-hour AAAQOs, respectively. The $PM_{2.5}$ concentrations are 17% and 44% of the 1-hour and 24-hour AAAQO/G, respectively. These background concentrations were added to the Base Case and Application Case (see Section 5.6) dispersion modelling predictions.

Table 3.1 Ambient Background Concentrations

Station	Species	Averaging Period	Background Concentration [a] [b] (µg/m³)	AAAQO/G (µg/m³)	Percent of Applicable AAAQO/G
Brooks [c]	NO_2	1-hour	17.9	300	6%
		Annual	5.5	45	12%
Lethbridge	CO	1-hour	343	15,000	2%
		8-hour	343	6,000	6%
Brooks [c]	$PM_{2.5}$ [d]	1-hour	13.4	80	17%
		24-hour	12.8	29	44%

Notes:

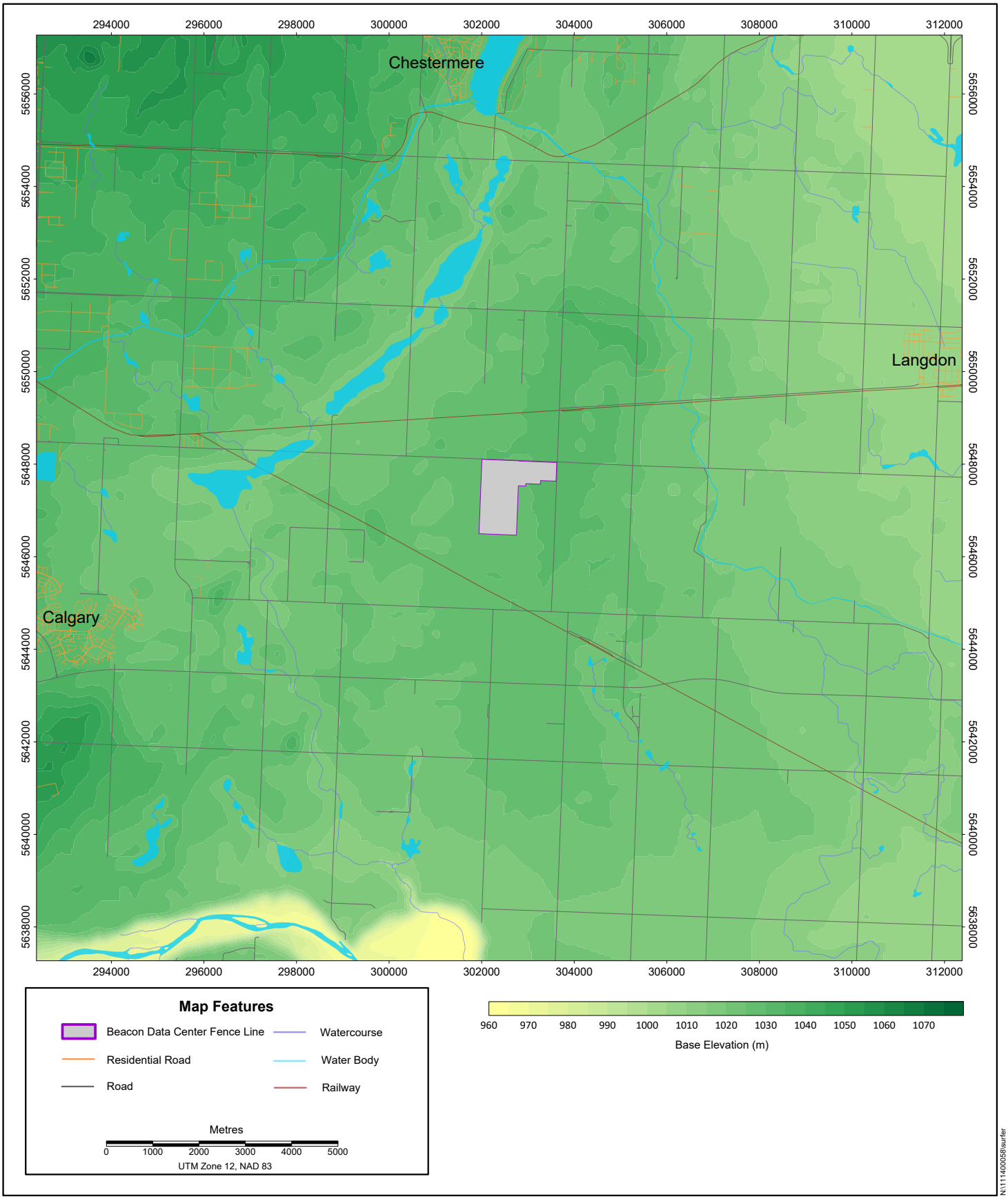
[a] For 1-hour averaging period, the 90th percentile value from the cumulative frequency distribution of the background monitoring data is calculated for each year. For 24-hour and annual averaging period, the average value is calculated from the reduced dataset (after removing values greater than the 90th percentile) for each year.

[b] The background concentrations are calculated as the 3-year average, as per the AQMG.

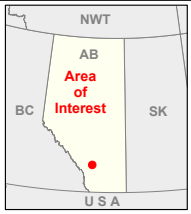
[c] Brooks Airpointer data (January 2022 to August 2024) and Brooks Meadow Place data (September 2024 to December 2024)

[d] Identified transboundary flows/exceptional events (TF/EE) influences removed from data; based on 2022-2024 data.

Source: AEPA Data Management Platform (AEPA 2025a).



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Beacon AI Data Centers - Indus Project Air Quality Assessment

Terrain Elevations within the 20 km by 20 km Study Area

PREPARED BY
Stantec

PREPARED FOR

FIGURE NO.
3.1

4 Emissions

4.1 Beacon Data Center

The Project consists of two complementary power-generation systems:

- 400 MWe of modular reciprocating-engine generation sited into two 200-MW QPAC pods, containing a total of 100 Jenbacher 4.6 MWe J624 natural-gas engines; and
- 800 MWe of combined-cycle turbine generation, delivered through four Siemens SGT-800 3×1 combined-cycle (CCGT) blocks, each comprising three 62 MW SGT-800 gas turbines, heat recovery steam generators (HRSG) units, and a condensing steam turbine.

The total electrical site production features a capacity of 1,494 MWe, providing 1,200 MWe of continuous, dispatchable electricity to the four on-site data centers. There are also 8 Clearfire CFLC-5000 condensing boilers associated with the data center buildings.

The 100 natural gas-fired engines will be installed in two generation pods, each containing 50 engines. Each gas generation pod will include 10 QPAC units, and each QPAC consists of five Jenbacher J624 engines. QPAC is a modular power plant platform which consists of five subunits each housing a Jenbacher J624 engine. The QPAC design combines the exhaust gases from the engine with air streams from the cooler and engine room ventilation into a single discharge to optimize plume rise and dispersion.

While Beacon only needs to operate 44 engines to produce 200 MW power from each gas generation pod, dispersion modelling has been completed based upon the conservative assumption that all 50 engines in each gas generation pod will operate continuously at the maximum rated capacity. The Project equipment burns sweet natural gas and as a result there are no substantive emissions of sulphur dioxide (SO_2).

Each Jenbacher J624 engine is equipped with high efficiency emission control systems including selective catalytic reduction (SCR) and oxidation catalysts that substantially reduce emissions. The SCR system is estimated to reduce engine NO_X emissions by more than 95%. The oxidation catalyst is estimated to reduce CO and VOC emissions by more than 95% and 90%, respectively. Ammonia (NH_3) emissions associated with slip from the SCR system are not evaluated as the concentrations exiting the QPAC are already less than the odour-based AAAQO for NH_3.

Table 4.1 provides the stack parameters and emission rates for a generator engine. Emission rates were estimated based on the performance data sheets for the Jenbacher engines. The NO_X emission rate for each engine is 0.265 kg/h (0.074 g/s). The CO and $PM_{2.5}$ emission rates for each engine are 0.508 kg/h (0.141 g/s) and 0.068 kg/h (0.019 g/s), respectively. The combustion gas plume from engine stack is released adjacent to cooler and ventilation outlets. The stack exit temperature and exit velocity are determined by Stantec based on the combined plume of combustion gas and cooler and ventilation exhaust.

The Project also includes 12 Siemens SGT-800 gas turbine generators (GTGs) equipped with heat recovery steam generators (HRSGs), and four condensing steam turbines. Hot exhaust gases from the gas turbines are directed to the HRSGs which use this heat to produce steam. The electricity generation from turbines is divided into 4 blocks with each block comprising of three SGT-800 gas turbines equipped with HRSGs and one condensing steam turbine. The steam generated by the HRSGs in each block drives the condensing steam turbines to produce additional electricity. To minimize emissions, the HRSG will include a SCR system for NO_X control.

The turbine exhaust parameters and emission rates are provided in Table 4.2. Emission rates were estimated based on the GTG performance data sheet provided by Beacon. The NO_X emission rate of 8.45 kg/h (2.35 g/s) is based on an emission intensity of 0.1 kg NO_X per MWh (net power output) consistent with the emission intensity limit recommendation contained in the 2018 Clean Air Strategic Alliance Electricity Framework Review interim report and which is commonly used to establish BATEA based EPEA emission limits for combined cycle natural gas power facilities. The CO and $PM_{2.5}$ emission rates are the maximum emission rates from the GTG performance data sheet provided by Beacon.

The associated data center buildings include natural gas fired boilers for building heat. The boiler exhaust parameters and emission rates are provided in Table 4.3. The stack exit velocity is based on fuel flow rate and stoichiometric mass balance equation assuming 15% excess air, and temperature is based on typical condensing boiler. The NO_X emission rate is based manufacturer specification of 30 ppm NO_X at 3% O_2 in the exhaust gas (16 g/GJ heat input). The CO emission rate is calculated using AP-42 emission factor for external combustion sources (U.S. EPA 1998) and $PM_{2.5}$ emission rate is based on CEPEI (Canadian Energy partnership for Environmental Innovation) emission factor for boilers (CEPEI 2017).

Figure 4.1 shows the Project plot plan with location of buildings, turbine generation blocks, QPACs, and stacks. Figure 4.2 shows the layout of QPACs in a generation pod. Table 4.4 provides the location coordinates of each of the 100 generator stacks and Table 4.5 provides the location coordinates of 12 HRSG stacks.

The NO_X emissions from the Project for new electricity generation facilities are subject to provincial and federal emission limits. Table 4.6 and Table 4.7 shows provincial and federal emission criteria for each type of equipment along with emission rates in equivalent units. Project emissions meet federal and provincial emission standards for new electrical generation facilities.

Table 4.1 Stack Parameters and Emissions for each Generator Engine

Source		Generator Engine
Make/Model		**Jenbacher J624**
Period of Operation		Continuous
Power Rating	MW (Output)	4.6
Fuel Heat Input (HHV)	GJ/h	41.7
Fuel Type		Sweet Natural Gas
Stack Parameters		
Stack Height	m	21.4
Stack Inside Diameter [a]	m	5.09
Exit Temperature [b]	K	368.7
Exit Velocity [b]	m/s	8.0
Emission Rate [c]		
NO_X	g/s	0.0737
CO	g/s	0.141
$PM_{2.5}$	g/s	0.0189

Notes:

[a] Stack diameter is equivalent of 5.57 m length and 3.65 m width based on equipment drawings (QPAC).

[b] Exit temperature and velocity are based on combined flow rate - cooler outlet flow rate of 6,261 Am^3/min (366 K), ventilation outlet flow rate of 2,650 Am^3/min (330 K), and engine exhaust flow rate of 880 Am^3/min (623 K).

[c] Emission rates from Jenbacher performance specifications

Table 4.2 Stack Parameters and Emissions for each Block of HRSGs

Source		3 SGT-800 with HRSGs + 1 Condensing Steam Turbine		
		HRSG	HRSG	HRSG
Period of Operation		Continuous	Continuous	Continuous
Power Rating [a]	MW	253		
Fuel Type		Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas
Stack Parameters				
Stack Height [b]	m	30.48	30.48	30.48
Stack Inside Diameter [b]	m	3.048	3.048	3.048
Exit Temperature [c]	K	663	663	663
Exit Velocity [d]	m/s	34.9	34.9	34.9
Emission Rate				
NO_X	g/s	2.35	2.35	2.35
CO [e]	g/s	0.857	0.857	0.857
$PM_{2.5}$ [e]	g/s	0.315	0.315	0.315

Notes:

[a] Power rating is the combined gross electrical power rating per block based upon power output from each of three Siemens SGT-800 gas turbines and a condensing steam turbine. All parameters provided by Beacon. Power output of 253 MW conservatively assumed for modelling.

[b] Based on stack drawings provided by Beacon.

[c] Based on stack exit temperature from the HRSG.

[d] Based on stack mass flow rate from the GTG performance data sheet provided by Beacon.

[e] Based on the maximum emission rates from GTG performance data sheet provided by Beacon. The total of filterable and condensable particulate emission rate was assumed to be equal to the $PM_{2.5}$ emission rate.

Table 4.3 Stack Parameters and Emissions for the Boilers

Source		Condensing Boiler	Condensing Boiler	Condensing Boiler	Condensing Boiler	Condensing Boiler	Condensing Boiler	Condensing Boiler	Condensing Boiler
Make/Model		Clearfire CFLC-5000	Clearfire CFLC-5000	Clearfire CFLC-5000	Clearfire CFLC-5000	Clearfire CFLC-5000	Clearfire CFLC-5000	Clearfire CFLC-5000	Clearfire CFLC-5000
Period of Operation		Continuous	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
Power Rating	MW	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Fuel Heat Inout (HHV)	GJ/h	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28
Fuel Type		Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas	Sweet Natural Gas
Stack Location									
Easting	M	303,248	303,248	302,309	302,309	302,296	302,296	302,290	302,289
Northing	M	5,647,953	5,647,948	5,647,985	5,647,980	5,647,649	5,647,654	5,647,489	5,647,484
Base Elevation	M	1,030	1,030	1,029	1,029	1,029	1,029	1,029	1,029
Stack Parameters									
Stack Height	M	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
Stack Inside Diameter	M	0.356	0.356	0.356	0.356	0.356	0.356	0.356	0.356
Exit Temperature	K	350	350	350	350	350	350	350	350
Exit Velocity	m/s	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Emission Factor									
NO_X	30 ppm (corrected to 3% O_2)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
CO (AP-42)	lb/MMBtu (HHV)	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
$PM_{2.5}$ (CEPEI)	g/GJ (HHV)	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
Emission Rate									
NO_X	g/s	0.0234	0.0234	0.0234	0.0234	0.0234	0.0234	0.0234	0.0234
CO	g/s	0.0519	0.0519	0.0519	0.0519	0.0519	0.0519	0.0519	0.0519
$PM_{2.5}$	g/s	0.000196	0.000196	0.000196	0.000196	0.000196	0.000196	0.000196	0.000196

Table 4.4 Location and Base Elevation of each Generator Engine Stack

Generation Pod 1				Generation Pod 2			
Model ID	Easting (m)	Northing (m)	Base Elevation (m)	Model ID	Easting (m)	Northing (m)	Base Elevation (m)
E1	302,027	5,647,205	1,029	E51	302,022	5,647,083	1,029
E2	302,031	5,647,205	1,029	E52	302,026	5,647,083	1,029
E3	302,034	5,647,205	1,029	E53	302,030	5,647,083	1,029
E4	302,038	5,647,205	1,029	E54	302,034	5,647,083	1,029
E5	302,042	5,647,205	1,029	E55	302,037	5,647,083	1,029
E6	302,052	5,647,204	1,029	E56	302,047	5,647,082	1,029
E7	302,056	5,647,204	1,029	E57	302,051	5,647,082	1,029
E8	302,059	5,647,204	1,029	E58	302,055	5,647,082	1,029
E9	302,063	5,647,204	1,029	E59	302,059	5,647,082	1,029
E10	302,067	5,647,204	1,029	E60	302,063	5,647,082	1,029
E11	302,077	5,647,203	1,029	E61	302,072	5,647,081	1,029
E12	302,081	5,647,203	1,029	E62	302,076	5,647,081	1,029
E13	302,084	5,647,203	1,029	E63	302,080	5,647,081	1,029
E14	302,088	5,647,203	1,029	E64	302,084	5,647,081	1,029
E15	302,092	5,647,203	1,029	E65	302,088	5,647,081	1,029
E16	302,102	5,647,202	1,029	E66	302,097	5,647,080	1,029
E17	302,106	5,647,202	1,029	E67	302,101	5,647,080	1,029
E18	302,109	5,647,202	1,029	E68	302,105	5,647,080	1,029
E19	302,113	5,647,202	1,029	E69	302,109	5,647,080	1,029
E20	302,117	5,647,202	1,029	E70	302,113	5,647,080	1,029
E21	302,127	5,647,201	1,029	E71	302,122	5,647,079	1,029
E22	302,131	5,647,201	1,029	E72	302,126	5,647,079	1,029
E23	302,134	5,647,201	1,029	E73	302,130	5,647,079	1,029
E24	302,138	5,647,201	1,029	E74	302,134	5,647,079	1,029
E25	302,142	5,647,201	1,029	E75	302,138	5,647,079	1,029
E26	302,025	5,647,159	1,029	E76	302,021	5,647,037	1,029
E27	302,029	5,647,159	1,029	E77	302,024	5,647,037	1,029
E28	302,033	5,647,158	1,029	E78	302,028	5,647,036	1,029
E29	302,037	5,647,158	1,029	E79	302,032	5,647,036	1,029
E30	302,040	5,647,158	1,029	E80	302,036	5,647,036	1,029
E31	302,050	5,647,158	1,029	E81	302,046	5,647,036	1,029
E32	302,054	5,647,158	1,029	E82	302,049	5,647,036	1,029
E33	302,058	5,647,157	1,029	E83	302,053	5,647,035	1,029
E34	302,062	5,647,157	1,029	E84	302,057	5,647,035	1,029



Generation Pod 1				Generation Pod 2			
Model ID	Easting (m)	Northing (m)	Base Elevation (m)	Model ID	Easting (m)	Northing (m)	Base Elevation (m)
E35	302,065	5,647,157	1,029	E85	302,061	5,647,035	1,029
E36	302,075	5,647,157	1,029	E86	302,071	5,647,035	1,029
E37	302,079	5,647,157	1,029	E87	302,074	5,647,035	1,029
E38	302,083	5,647,157	1,029	E88	302,078	5,647,035	1,029
E39	302,086	5,647,157	1,029	E89	302,082	5,647,035	1,029
E40	302,090	5,647,156	1,029	E90	302,086	5,647,034	1,029
E41	302,100	5,647,156	1,029	E91	302,096	5,647,034	1,029
E42	302,104	5,647,156	1,029	E92	302,099	5,647,034	1,029
E43	302,108	5,647,156	1,029	E93	302,103	5,647,033	1,029
E44	302,111	5,647,155	1,029	E94	302,107	5,647,033	1,029
E45	302,115	5,647,156	1,029	E95	302,111	5,647,033	1,029
E46	302,125	5,647,155	1,029	E96	302,121	5,647,033	1,029
E47	302,129	5,647,155	1,029	E97	302,124	5,647,033	1,029
E48	302,133	5,647,155	1,029	E98	302,128	5,647,033	1,029
E49	302,136	5,647,154	1,029	E99	302,132	5,647,032	1,029
E50	302,140	5,647,154	1,029	E100	302,136	5,647,032	1,029



Table 4.5 Location and Base Elevation of each HRSG Stack

Model ID	Easting (m)	Northing (m)	Base Elevation (m)
T1	302,096	5,647,844	1,028
T2	302,095	5,647,819	1,028
T3	302,094	5,647,795	1,028
T4	302,088	5,647,639	1,029
T5	302,087	5,647,615	1,029
T6	302,086	5,647,591	1,028
T7	302,084	5,647,536	1,028
T8	302,084	5,647,511	1,028
T9	302,083	5,647,487	1,028
T10	302,077	5,647,331	1,028
T11	302,076	5,647,307	1,028
T12	302,075	5,647,283	1,028

Table 4.6 Comparison of Project Reciprocating Engine NO_X Emissions with Provincial and Federal Emission Limits for New Electricity Generation Facilities

Regulatory Jurisdiction	Substance	Reference	Units	Emission Limits (for each new generating unit)	Project Emission
Provincial	NO_X	AEPA (2025b) [a b]	g/kWh	0.2	0.06 [d]
Federal	NO_X	Environment and Climate Change Canada (ECCC 2016) [a c]	g/kWh	2.7	

Notes:

[a] AEPA and ECCC emission limits apply to gross power.

[b] Emission standards to facilities with total installed capacity greater than 1 MW

[c] Emission standards for new natural gas fired generating units greater than 75 kW.

[d] Calculated based upon gross electrical power output.

Table 4.7 Comparison of Turbine NO_X Emissions with Provincial and Federal Emission Limits for New Electricity Generation Facilities

Regulatory Jurisdiction	Substance	Reference	Units	Emission Limits (for each new generating unit)	Project Emissions
Provincial	NO_X	AEP (2005) [a]	kg/MWh	0.3 [b]	0.1 [d]
Federal	NO_X	Environment and Climate Change Canada (ECCC 2017)	g/GJ	140 [c]	28 [d]

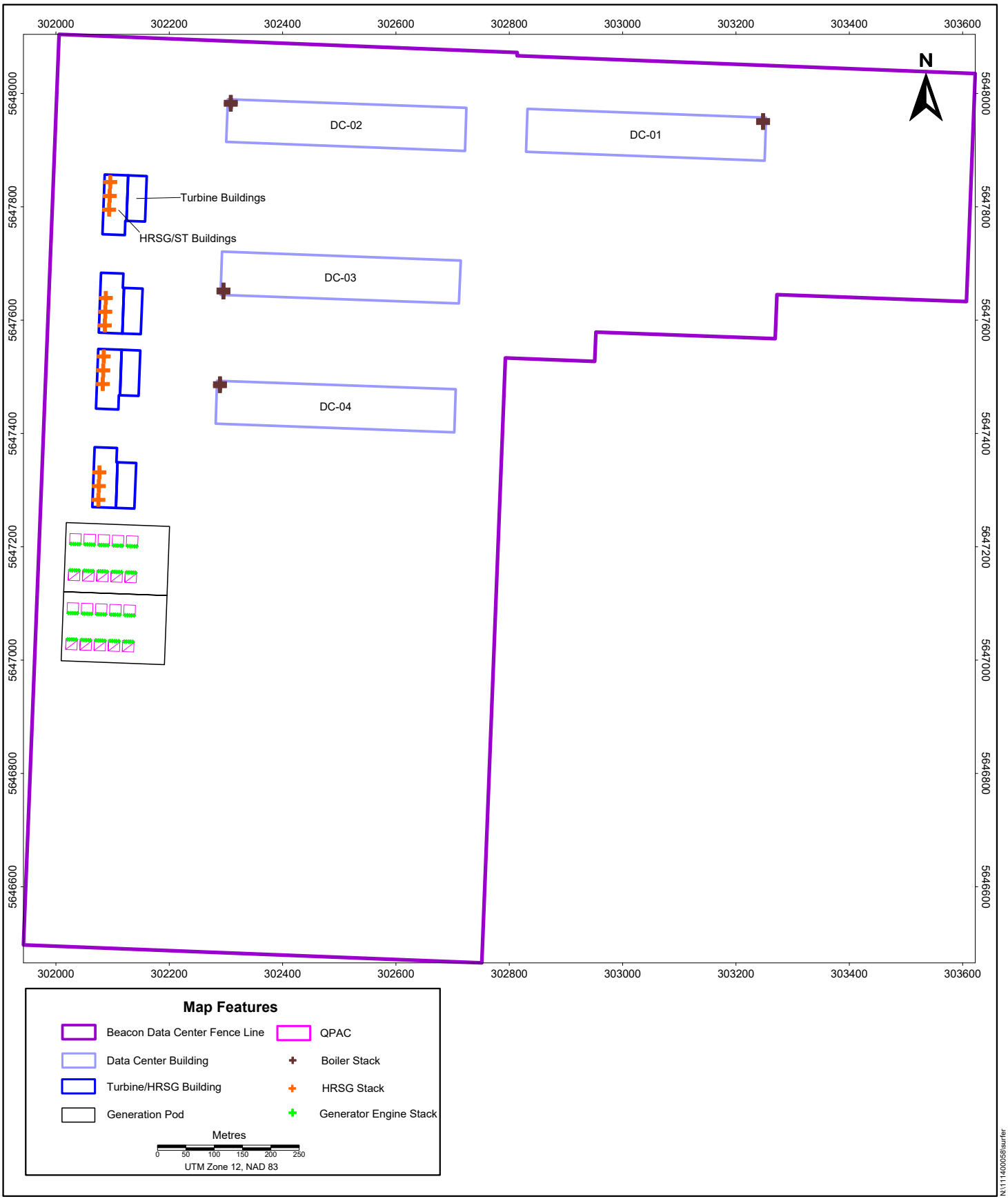
Notes:

[a] AEP emission standard applies to net power generation.

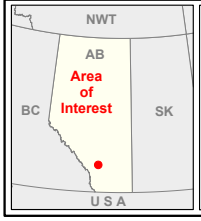
[b] Emission standards for new natural gas fired generating units greater than 60 MW.

[c] Federal emission limits for non-peaking turbines between 4 MW and 70 MW capacity per GJ of power output.

[d] Calculated based upon combined net electrical power output from the gas and steam turbine generators.



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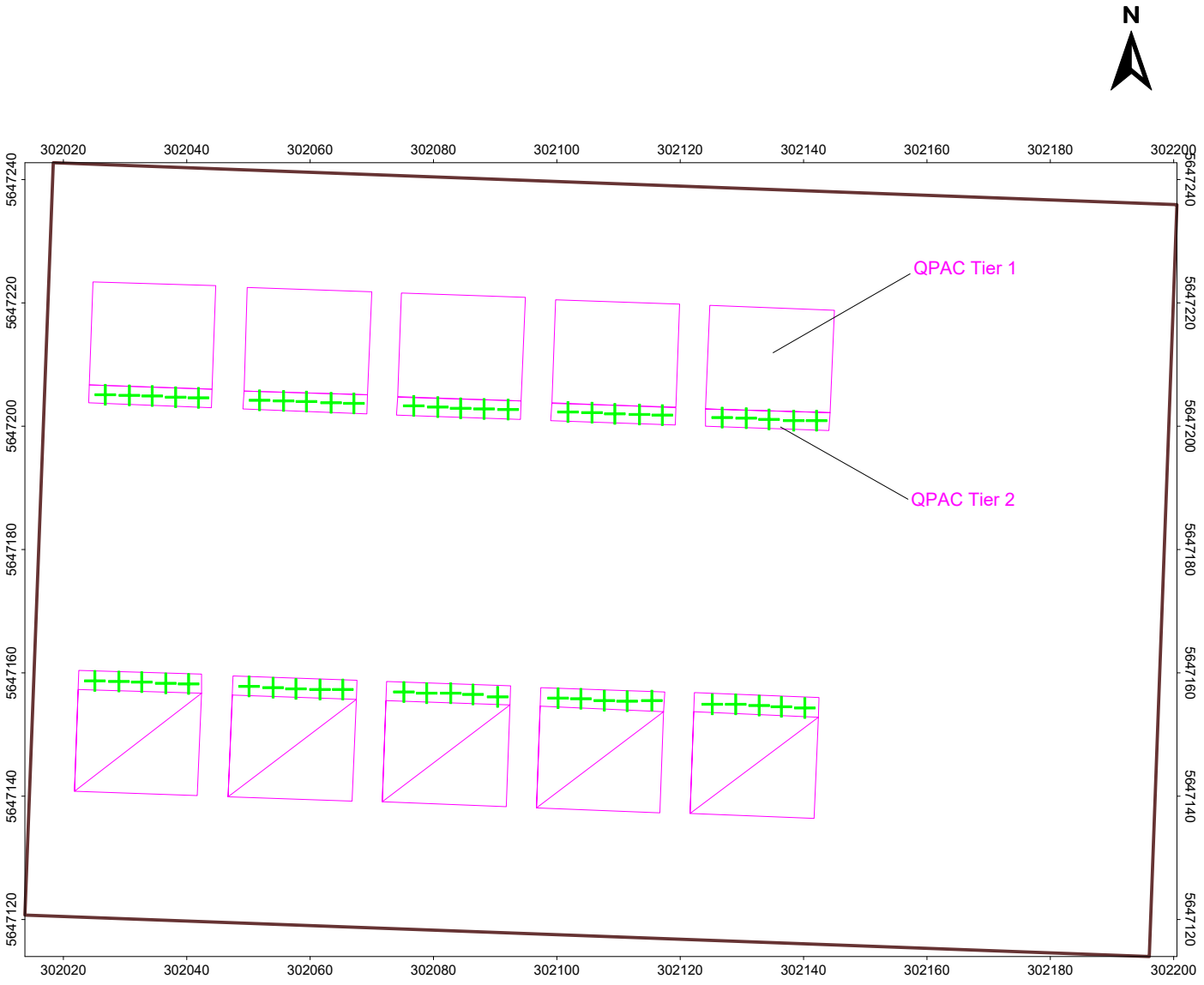
Beacon AI Data Centers - Indus Project Air Quality Assessment

Simplified Project Plot Plan

PREPARED BY
Stantec

PREPARED FOR

FIGURE NO.
4.1



Map Features

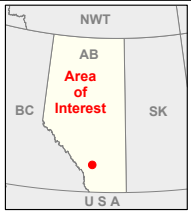
- Generation Pod
- QPAC
- Generator Engine Stack

Metres

0 10 20 30

UTM Zone 12, NAD 83

N:\111400058\surfer



Beacon AI Data Centers - Indus Project Air Quality Assessment

Simplified Generation Pod Layout

PREPARED BY Stantec

PREPARED FOR

FIGURE NO. 4.2

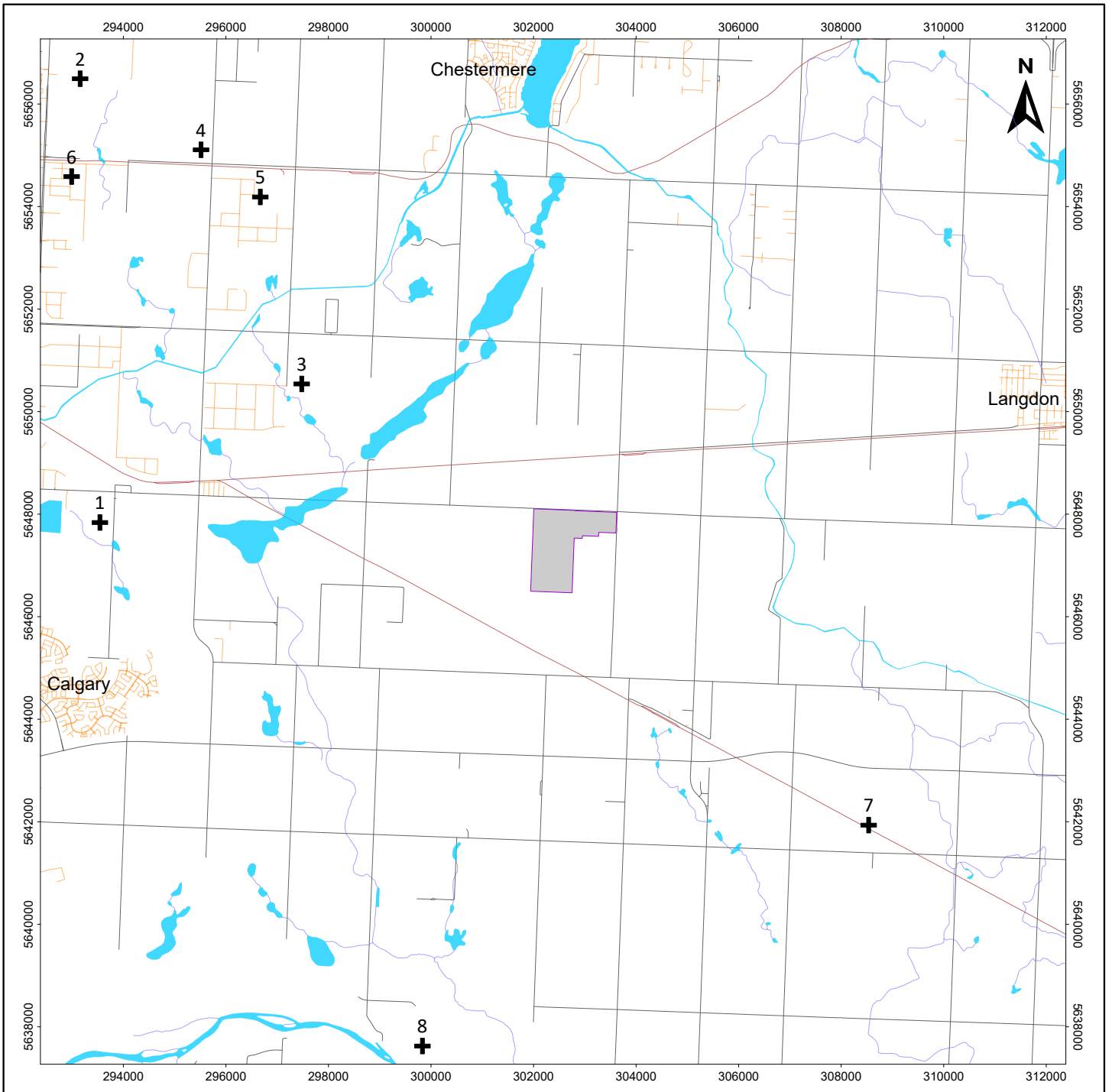
4.2 Regional Emissions

As recommended by the AQMG (AEP 2021a), nearby industrial emission sources in the study area have been included in dispersion modelling. Based on a search of the most recent Alberta Annual Emissions Inventory Reporting (AEIR) (AEPA 2024b), the Environment and Climate Change Canada (ECCC) National Pollutant Release Inventory (NPRI) database (ECCC 2024), and provincial EPEA Approvals (AEPA 2025c), it was determined that there are 7 existing and one approved major sources of emissions located in the 20 km by 20 km study area. Emissions from these facilities are included in the dispersion modelling. Figure 4.3 shows the locations of the neighbouring facilities in the study area relative to the Project. Table 4.8 summarizes total emissions associated with the regional emission sources within the study area.

The stack, area source, and volume source location, parameters, and emission rates of each regional emission source are presented in Appendix A.

4.3 Study Area Emissions Summary

Table 4.9 summarizes total emissions associated with the Project and the regional emission sources. The Project will contribute 30.1%, 52.6%, and 67.6% of the total Application Case NO_X, CO, and $PM_{2.5}$ emissions within the study area.



Map Features

- Beacon Data Center Fence Line
- Residential Road
- Road
- Regional Industrial Facility
- Watercourse
- Water Body
- Railway

Metres
0 1000 2000 3000 4000 5000
UTM Zone 12, NAD 83

1 - City of Calgary - Shepard Municipal Landfill
2 - City of Calgary - East Calgary Municipal Landfill
3 - ENMAX - Shepard Energy Centre
4 - Future Energy Park - Calgary Biofuels and Power Plant
5 - Lafarge Canada - Calgary East Asphalt
6 - GFL Environmental Services - Recycle West
7 - Viterra - Indus Viterra Grain Silos
8 - Burnco Rock Products - Indus Aggregate Pit

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Beacon AI Data Centers - Indus Project Air Quality Assessment

Regional Facilities within the Study Area

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FIGURE NO. 4.3

Table 4.8 Emissions from Regional Facilities within the Study Area

No.	Operator	Facility	Operating Status	NO_X (t/d)	CO (t/d)	$PM_{2.5}$ (t/d)
Existing and Approved Facilities						
1	City of Calgary	Shepard Municipal Class II Landfill	Existing	0.139	0.157	0.0228
2	City of Calgary	East Calgary Municipal Class II Landfill	Existing	0.0432	0.131	0.0094
3	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	Existing	6.25	1.38	0.0391
4	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Approved	0.694	0.253	0.156
5	Lafarge Canada Inc.	Calgary East Asphalt	Existing	0	0	0.0023
6	GFL Environmental Services Inc.	Recycle West	Existing	0	0	0.0028
7	Viterra Inc.	Indus Viterra Grain Elevator	Existing	0	0	0.0018
8	Burnco Rock Products Ltd.	Indus Aggregate Pit	Existing	0.0475	0.0103	0.0009
Total (Existing and Approved)				**7.18**	**1.93**	**0.235**

Table 4.9 Total Emissions within the Study Area

Modelling Scenario	NO_X (t/d)	CO (t/d)	$PM_{2.5}$ (t/d)
Base Case (Regional Sources - Existing and Approved)	7.18	1.93	0.235
Project Case	3.09	2.14	0.491
Application Case (Base Case + Project Case)	10.26	4.08	0.726
Contribution of Project to Application Case (%)	30.1%	52.6%	67.6%

5 Modelling Methodology

The effects of the Project emissions on ambient air quality are evaluated using a numerical atmospheric dispersion model. Dispersion models simulate transport, dispersion, transformation, and deposition processes in the atmosphere. Dispersion models are used to predict ambient air quality changes for a wide range of meteorological conditions and account for local terrain influences. Because of the many uncertainties associated with the application of dispersion models, the model results can be viewed as "best estimates" relative to the decision-making process when standardized model approaches are adopted (U.S. EPA 2005).

The AERMOD model is used to assess air quality changes due to the Project emissions. This air quality assessment is undertaken in accordance with the AQMG (AEP 2021a).

5.1 Meteorology

Meteorology influences how the air emissions from industrial and natural sources disperse into the atmosphere and thus have a direct effect on ambient air quality. The atmospheric dispersion of emissions is governed by the amount of turbulence that exists in the mixed layer of air in contact with the ground. The turbulence levels are dependent on thermal effects (e.g., vertical temperature stratification) and mechanical effects caused by topography, surface roughness, and wind speed. The height of the mixing layer determines the vertical extent to which emissions can diffuse.

Meteorological data for the AERMOD dispersion model was prepared using the latest version (Version 24142) of the AERMET meteorological model (U.S. EPA 2024a) using the 5-year Weather Research and Forecasting Model (WRF) 4 km resolution meteorological dataset (2015-2019) provided by AEPA for dispersion model assessments (AEP 2022). Surface and upper air data for AERMET input was extracted from the WRF dataset for the Project location using the AEPA Multi-Model Extraction Utility 2 (MMEU2) (AEP 2021b). The AERMET model was used to process the meteorological dataset and estimate friction velocity and Monin-Obukhov length – two parameters that characterize the amount of turbulence in the atmosphere based on provided input for the land cover within 3 km of the Project. Modern planetary boundary layer theory is used by AERMET to scale turbulence and other parameters to the height of the plume. The AERMET model derives hourly mixing heights based on the upper air and surface meteorology, which are used in the AERMOD dispersion model.

The details of the use of the AERMET model and results are provided in Appendix B. AERMET model input options were specified following the AQMG (AEP 2021a). The wind rose derived for the Project location based on the extracted 2015-2019 AERMET data indicates that winds occur most often from the west, southwest, south, and southeast directions. Winds occur least frequently from the north.

The meteorological data that is used to evaluate air quality changes associated with Project emissions account for the seasonal and diurnal variations over a five-year period, and for the amount of turbulence in the atmosphere. The five-year period includes cool, normal, and warm years. The data are viewed as being representative of the wide range of meteorological conditions that could occur in the region.



5.2 AERMOD Model

AERMOD is a steady-state plume dispersion model which can simulate the effects of hourly varying meteorological conditions on air emission transport, dispersion, transformation, and deposition. The model is designed to estimate near-field (less than 50 km) ground-level concentrations considering terrain influences. The concentration distribution in the plume is assumed to be Gaussian in both horizontal and vertical directions. AERMOD contains algorithms for near-source effects such as building downwash, transitional plume rise, and partial plume penetration.

AERMOD requires hourly meteorological data processed with the AERMET meteorological pre-processor including parameters that characterize the amount of turbulence in the atmosphere (friction velocity and Monin-Obukhov length). AERMOD produces hourly average pollutant concentrations that can be further processed to obtain predictions for other averaging periods. Input terrain elevations at receptor locations for the AERMOD model are assigned by a Stantec in house tool to extract terrain elevations.

The AERMOD dispersion model (U.S. EPA 2024b) is accepted by AEPA for refined air quality assessments. This assessment is undertaken in accordance with the AQMG (AEP 2021a). At the time that the modelling was completed, Version 24142 was the most recent version of the AERMOD model available from the United States Environmental Protection Agency (U.S. EPA). As required in the AQMG (AEP 2021a), this version of the model was used in the assessment.

5.3 NO_X to NO_2 Conversion

NO_X includes NO and NO_2. Most of the NO_X emissions are in the form of NO which is converted in the atmosphere to NO_2 due to reactions with ambient O_3. Air quality regulators have selected NO_2 to assess and manage ambient levels of NO_X for several reasons: much of the information on the distribution in air, human exposure and dose, and associated health effects for NO_X is available for only NO_2, and emissions and concentrations of NO_2 are highly correlated with those of other oxides of nitrogen which allow management of NO_X emissions via a focus on NO_2. Consequently, only NO_2 concentrations are regulated by the AAAQO/G.

The AQMG (AEP 2021a) specifies several recommended methods for estimating the fraction of NO_2 concentrations in the plume for the purpose of comparison to the AAAQO/G. The recommended methods must be implemented in a tiered approach, where the first screening tier of the assessment is to conservatively assume that 100% of the NO_X concentrations are converted to NO_2 (i.e., Total Conversion Method (TCM)). If the AAAQO/G are met using this conservative assumption, no other conversion method needs to be implemented. If the results do not meet the AAAQO/G, another recommended method, such as the Ambient Ratio Method Version 2 (ARM2), Ozone Limiting Method (OLM), or Plume Volume Molar Ratio Method (PVMRM) may be applied.

In this assessment, the TCM method NO_2 concentrations from Project emissions met the AAAQO/G. The ARM2 method was also implemented to more realistically estimate NO_2 concentrations. The AQMG (AEP 2021a) recommended default maximum equilibrium ratio of 0.9 and the minimum ratio of 0.2 (equivalent to an assumed NO_2/NO_X in-stack ratio of 0.2) was used for all point sources that were considered in this assessment (Project and non-Project sources).

5.4 Receptor Grids and Terrain

Calculations of ground-level air concentrations were made for locations outside the Project fenceline according to the AQMG (AEP 2021a). A series of nested Cartesian grids with increasing receptor density with proximity to the Project were applied. In total, 8,969 receptors were generated for this assessment. As shown in Figure 5.1, the receptor grids and their corresponding spacing are as follows:

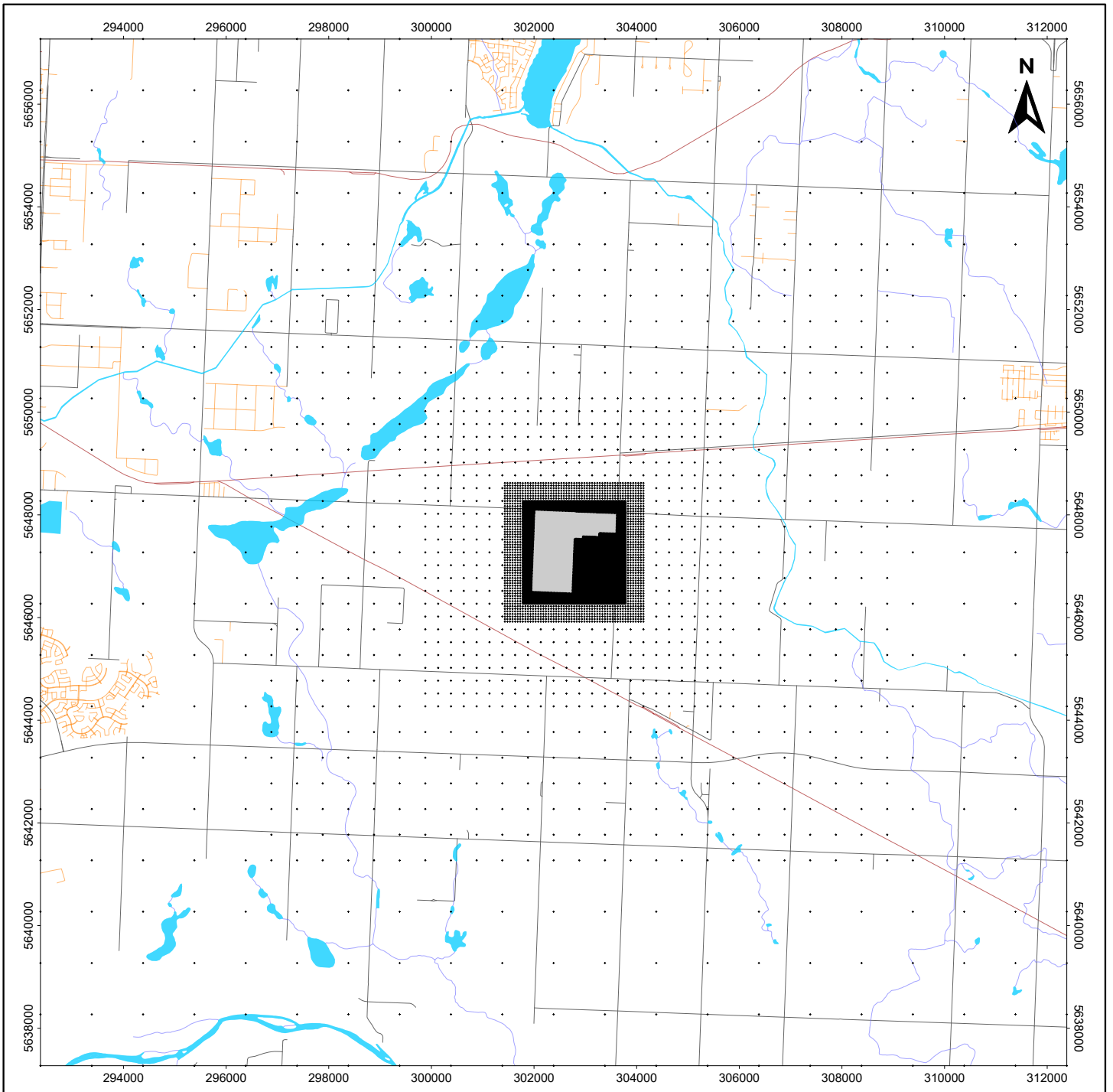
- 20 m spacing along the Project fenceline
- 20 m spacing within 100 m of the Project fenceline
- 50 m spacing within the 500 m of the Project fenceline
- 250 m spacing within the 2 km of the Project fenceline
- 500 m spacing within the 5 km of the Project fenceline
- 1000 m spacing beyond the 5 km of the Project fenceline

Actual terrain elevations were applied to all receptors used in dispersion modelling based on Canadian Digital Elevation Model (CDEM; (NRCan 2016)) terrain elevation data.

5.5 Building Downwash Effects

Buildings or other solid structures may affect the flow of air in the vicinity of a source and cause building downwash effects (e.g., eddies on the downwind side), which have the potential to reduce plume rise and affect dispersion. For dispersion modelling purposes, building downwash effects were considered using the Plume Rise Model Enhancements (PRIME) downwash routine (Schulman et al. 1998) in the Building Profile Input Program (BPIP) (U.S. EPA 1995).

The BPIP is a pre-processor program used to provide the building downwash inputs for the AERMOD model based on the locations of the emission sources and site buildings or structures. For dispersion modelling purposes, building downwash effects were considered for Project sources. Information for the buildings or structure heights is provided in Table 5.1 and building locations are shown in Figure 4.1 and Figure 4.2.



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Beacon AI Data Centers - Indus Project Air Quality Assessment

Receptors Applied in the Dispersion Modelling

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Stantec

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FIGURE NO.
5.1

Table 5.1 Buildings and Structures Considered in the Dispersion Modelling

Buildings or Structure Name	Height (m)
Data Center Building (DC-01)	15.85
Data Center Building (DC-02)	15.85
Data Center Building (DC-03)	15.85
Data Center Building (DC-04)	15.85
Each QPAC Structure Tier 1	15.3
Each QPAC Structure Tier 2	20
Each Turbine Building	15
Each HRSG/Steam Turbine Building	22

5.6 Modelling Scenarios

To assess the effects on air quality associated with emissions from the Project, dispersion modelling was conducted for the following scenarios:

- Base Case: includes emissions associated with existing and approved regional facilities in the study area (excluding the Project) and ambient background
- Project Case: includes emissions from the Beacon Power Generation Project
- Application Case: includes cumulative emissions from the Project, existing and approved regional facilities and ambient background



6 Dispersion Modelling Results

The air dispersion modelling assessment considered three scenarios: Base Case, Project Case, and Application Case. The NO_2 (Total Conversion Method (TCM)) values shown in Table 6.1 to Table 6.3 are equivalent to NO_2 assuming 100% conversion of NOx to NO_2. The assessment focuses on predicted NO_2 concentrations associated with the more realistic ARM2 approach rather than TCM. Contour plots of the maximum predicted concentrations for all modelling cases are provided in Appendix C. Isopleth figures are not provided where predicted concentrations are less than 10% of the AAAQO/G.

6.1 Base Case

Dispersion modelling for the Base Case includes emissions from the existing and approved regional industrial facilities. The maximum predicted concentrations, including background, are summarized in Table 6.1.

Table 6.1 Maximum Predicted Ground-level Concentrations (µg/m^3) Associated with the Base Case

Substance	Averaging Period	Maximum Predicted Ground-Level Concentrations (µg/m^3)	Ambient Background Concentration (µg/m^3)	Maximum Predicted Concentration Including Background (µg/m^3)	AAAQO/G (µg/m^3) [a]	Comparison of Predictions to AAAQO/G
NO_2 (TCM) [b]	1-hour [c]	243	17.9	261	NA	NA
	Annual	14.8	5.5	20.3	NA	NA
NO_2 (ARM2) [d]	1-hour [c]	139	17.9	157	300	52%
	Annual	12.3	5.5	17.8	45	39%
CO	1-hour [c]	255	343	598	15,000	4%
	8-hour	170	343	513	6,000	9%
$PM_{2.5}$	1-hour [c]	27.5	13.4	40.9	80 [e]	51%
	24-hour	9.37	12.8	22.2	29	76%

Notes:

[a] Alberta Ambient Air Quality Objective (AAAQO), unless otherwise stated.

[b] 100% of the NO_X concentrations are converted to NO_2 (Total Conversion Method (TCM)).

[c] 9th highest predictions (AEP 2021a).

[d] NO_X was converted to NO_2 using the ARM2.

[e] Alberta Ambient Air Quality Guideline (AAAQG).

NA – Not Applicable (TCM NO_2 concentrations not compared against the AAAQO as ARM2 values were used for comparison to AAAQO)

6.1.1 NO_2 Predictions

The maximum predicted 1-hour and annual average ground-level NO_2 concentrations associated with the Base Case are 157 µg/m^3 and 17.8 µg/m^3, respectively, including background. All maximum predicted NO_2 concentrations are less than the relevant AAAQO. The maximum predicted 1-hour and annual NO_2 concentrations occur 7.6 km west of Project fenceline adjacent to the Shepard Municipal Landfill facility, as shown in Appendix C, Figures C.1 and C.2.

6.1.2 CO Predictions

The maximum predicted 1-hour and 8-hour average ground-level CO concentrations associated with the Base Case are 598 µg/m^3 and 513 µg/m^3, respectively, including background. All maximum predicted CO concentrations are less than 10% of the relevant AAAQO. Isopleth figures are not presented for CO as the predicted concentrations for all averaging periods are less than 10% of AAAQO.

6.1.3 $PM_{2.5}$ Predictions

The maximum predicted 1-hour and 24-hour average ground-level $PM_{2.5}$ concentrations associated with the Base Case are 40.9 µg/m^3 and 22.2 µg/m^3, respectively, including background. All maximum predicted $PM_{2.5}$ concentrations are less than the relevant AAAQO/G. The maximum predicted 1-hour and 24-hour $PM_{2.5}$ concentrations occur 7.6 km west of Project fenceline adjacent to the Shepard Municipal Landfill facility, as shown in Appendix C, Figures C.3 and C.4.

6.2 Project Case

Dispersion modelling for the Project Case includes emissions from the 100 generator engines, 12 GTGs and 8 boilers. All combustion equipment are assumed to operate continuously at maximum rated capacity. The maximum predicted concentrations, without background, are summarized in Table 6.2.

Table 6.2 Maximum Predicted Ground-level Concentrations (µg/m^3) Associated with the Project Case

Substance	Averaging Period	Maximum Predicted Ground-Level Concentrations (µg/m^3)	AAAQO/G [a] (µg/m^3)	Comparison of Predictions to AAAQO/G
NO_2 (TCM) [b]	1-hour [c]	63.5	NA	NA
	Annual	1.65	NA	NA
NO_2 (ARM2) [d]	1-hour [c]	57.2	300	19%
	Annual	1.49	45	3%
CO	1-hour [c]	76.9	15,000	0.5%
	8-hour	74.3	6,000	1.2%
$PM_{2.5}$	1-hour [c]	12.2	80 [e]	15%
	24-hour	5.94	29	20%

Notes:

[a] Alberta Ambient Air Quality Objective (AAAQO), unless otherwise stated.

[b] 100% of the NO_X concentrations are converted to NO_2 (Total Conversion Method (TCM)).

[c] 9th highest predictions (AEP 2021a).

[d] NO_X was converted to NO_2 using the ARM2.

[e] Alberta Ambient Air Quality Guideline (AAAQG).

NA – Not Applicable (TCM NO_2 concentrations not compared against the AAAQO as ARM2 were values used for comparison to AAAQO)

6.2.1 NO_2 Predictions

The maximum predicted 1-hour and annual average ground-level NO_2 concentrations associated with the Project Case are 57.2 µg/m^3 and 1.49 µg/m^3, respectively, without background. All maximum predicted NO_2 concentrations are less than or equal to 19% of the relevant AAAQO. The maximum predicted 1-hour and annual NO_2 concentrations occur on the Project fenceline, as shown in Appendix C, Figures C.5 and C.6.

6.2.2 CO Predictions

The maximum predicted 1-hour and 8-hour average ground-level CO concentrations associated with the Project Case are 76.9 µg/m^3 and 74.3 µg/m^3, respectively, without background. All maximum predicted CO concentrations are less than or equal to 1.2% of the relevant AAAQO. Isopleth figures are not presented for CO as the predicted concentrations for all averaging periods are less than 10% of AAAQO.

6.2.3 $PM_{2.5}$ Predictions

The maximum predicted 1-hour and 24-hour average ground-level $PM_{2.5}$ concentrations associated with the Project Case are 12.2 µg/m^3 and 5.94 µg/m^3, respectively, without background. All maximum predicted $PM_{2.5}$ concentrations are less than or equal to 20% of the relevant AAAQO/G. The maximum predicted 1-hour and 24-hour $PM_{2.5}$ concentrations occur on the Project fenceline, as shown in Appendix C, Figures C.7 and C.8.

6.3 Application Case

Dispersion modelling for the Application Case includes emissions from the Project and the regional existing and approved facilities. The maximum predicted concentrations, including background, are summarized in Table 6.3.

6.3.1 NO_2 Predictions

The maximum predicted 1-hour and annual average ground-level NO_2 concentrations associated with the Application Case are 157 µg/m^3 and 17.9 µg/m^3, respectively, including background. All maximum predicted NO_2 concentrations are less than the relevant AAAQO. The 1-hour and annual NO_2 concentrations increased by less than or equal to 0.8% compared to the Base Case predicted concentrations.

The maximum predicted 1-hour and annual NO_2 concentrations occur 7.6 km west of Project fenceline adjacent to the Shepard Municipal Landfill facility, as shown in Appendix C, Figures C.9 and C.10.

6.3.2 CO Predictions

The maximum predicted 1-hour and 8-hour average ground-level CO concentrations associated with the Application Case are 598 µg/m^3 and 513 µg/m^3, respectively, including background. All maximum predicted CO concentrations are less than the relevant AAAQO. Isopleth figures are not presented for CO as the predicted concentrations for all averaging periods are less than 10% of AAAQO. The 1-hour and 8-hour CO concentrations increased by less than or equal to 0.001% compared to the Base Case predicted concentrations.

6.3.3 $PM_{2.5}$ Predictions

The maximum predicted 1-hour and 24-hour average ground-level $PM_{2.5}$ concentrations associated with the Application Case are 40.9 µg/m^3 and 22.2 µg/m^3, respectively, including background. All maximum predicted $PM_{2.5}$ concentrations are less than the relevant AAAQO/G. The maximum predicted 1-hour and 24-hour $PM_{2.5}$ concentrations occur 7.6 km west of Project fenceline adjacent to the Shepard Municipal Landfill facility, as shown in Appendix C, Figures C.11 and C.12. The 1-hour and 24-hour $PM_{2.5}$ concentrations increased by less or equal to 0.002% relative to the Base Case predicted concentrations.

Table 6.3 Maximum Predicted Ground-level Concentrations (µg/m^3) Associated with the Application Case

Substance	Averaging Period	Maximum Predicted Ground-Level Concentrations (µg/m^3)	Ambient Background Concentration (µg/m^3)	Maximum Predicted Concentration Including Background (µg/m^3)	AAAQO/G (µg/m^3)	Comparison of Predictions to AAAQO/G	% Change between Base Case and Application Case
NO_2 (TCM) [a]	1-hour [b]	243	17.9	261	NA	NA	0.001%
	Annual	15.0	5.5	20.5	NA	NA	0.8%
NO_2 (ARM2) [c]	1-hour [b]	139	17.9	157	300	52%	0.0002%
	Annual	12.4	5.5	17.9	45	40%	0.8%
CO	1-hour [b]	255	343	598	15,000	4%	0.0005%
	8-hour	170	343	513	6,000	9%	0.001%
$PM_{2.5}$	1-hour [b]	27.5	13.4	40.9	80 [e]	51%	0.0002%
	24-hour	9.37	12.8	22.2	29	76%	0.002%

Notes:

[a] Alberta Ambient Air Quality Objective (AAAQO), unless otherwise stated.

[b] 100% of the NO_X concentrations are converted to NO_2 (Total Conversion Method (TCM)).

[c] 9th highest predictions (AEP 2021a).

[d] NO_X was converted to NO_2 using the ARM2.

[e] Alberta Ambient Air Quality Guideline (AAAQG).

Bold text indicates exceedance of AAAQO/G.

NA – Not Applicable (TCM NO_2 concentrations not compared against the AAAQO as ARM2 values used for comparison to AAAQO)

7 Summary and Conclusions

Beacon is proposing to construct, own and operate an electricity generation facility within a data center campus located 2 km northwest of Hamlet of Indus, Alberta and 3 km east of the City of Calgary. The total electrical site production features a capacity of 1,494 MWe, providing 1,200 MW of continuous, dispatchable electricity to the four on site data centers. Potential effects on ambient air quality associated with the Project were evaluated using the AERMOD dispersion model. Maximum ground-level concentrations of NO_2, CO and $PM_{2.5}$ were predicted and compared to the AAAQO/G.

The air quality assessment shows that maximum predicted ground-level concentrations for all substances of interest associated with emissions from the Project (the Project alone) are below the AAAQO/G for all relevant averaging periods (ranging between 0.5% and 20% of the AAAQO/G).

The maximum predicted NO_2, CO, and $PM_{2.5}$ concentrations for all averaging periods associated with the Base Case and Application Case are below the AAAQO. A comparison between maximum predicted concentrations for the Base Case and Application Case indicates small increases (up to 0.8%) to the maximum predicted NO_2, CO and $PM_{2.5}$ concentrations with the addition of the Project. The modelling results show that overall maximum concentrations in the study area are primarily attributable to emissions from the existing regional industrial facilities.

8 References

AEP (Alberta Environment and Parks). 2005. *Alberta Air Emission Standards for Electricity Generation and Alberta Air Emission Guidelines for Electricity Generation.* Alberta Environment and Parks, Environment Policy Branch. Edmonton, AB. December 2005.

AEP (Alberta Environment and Parks). 2021a. *Air Quality Model Guideline*. Alberta Environment and Parks, Air Policy Branch. September 2021.

AEP. 2021b. Multi-Model Extraction Utility 2 (MMEU2) & 2015-2019 Alberta Meteorological Data Set User's Guide. Retrieved July 17, 2022, from Alberta Environment and Parks; Air Quality; Air Quality Modelling, Meteorological Data for Dispersion Modelling - Via CCD Health Systems Website: http://www.ccdsystems.com/downloads/wrfdata/mmeu2.zip. Accessed: March 2022

AEP. 2022. Alberta 2015-2019 4 km Grid Resolution Weather Research Forecast (WRF) V4.2.1. Available at: https://www.alberta.ca/meteorological-data-for-dispersion-models.aspx. Accessed: May 2025

AEPA (Alberta Environment and Protected Areas). 2024a. Alberta Ambient Air Quality Objectives and Guidelines. Ministry of Environment and Protected Areas. July 19, 2024.

AEPA. 2024b. Alberta Annual Emissions Inventory Reporting Program – 2022 Emission Rates Dataset. December 2024.

AEPA. 2025a. Alberta Data Management Platform. Alberta Air Quality Data. Available at: https://datamanagementplatform.alberta.ca/Ambient. Accessed: October 2025.

AEPA. 2025b. Guidance for Managing Nitrogen Oxide (NOx) Emissions from Reciprocating Engines used for Electricity Generation. Ministry of Environment and Protected Areas. January 2025.

AEPA. 2025c. Alberta Authorization/Approval Viewer. Available at: https://avw.alberta.ca/ApprovalViewer.aspx. Accessed: May 2025.

CEPEI (2017). PM2.5 Emissions Estimates for National Gas-Fired Gas Turbines and Other Natural Gas Combustion Sources. Canadian Energy Partnership for Environmental Innovation. CEPEI 17-IAGT-301, 2017.

ECCC (Environment and Climate Change Canada). 2016. Multi-Sector Air Pollutants Regulations. Available at: SOR-2016-151.pdf. Accessed: November 2025.

ECCC. 2017. Guidelines for the Reduction of Nitrogen Oxide Emissions from Natural Gas-fuelled Stationary Combustion Turbines. Available at: https://www.canada.ca/en/environment-climate-change/services/canadian-environmental-protection-act-registry/guidelines-objectives-codes-practice/reduction-nitrogen-oxide-combustion-turbines-guidelines.html

ECCC. 2024. National Pollutant Release Inventory (NPRI). Online Data Search. Reporting Year 2023. Available at: https://pollution-waste.canada.ca/national-release-inventory/archives/index.cfm?lang=en. Accessed: May 2025

NRCan (Natural Resources Canada). 2016. Canadian Digital Elevation Model Download. Available at: https://open.canada.ca/data/en/dataset/7f245e4d-76c2-4caa-951a-45d1d2051333.

Schulman, L.L., D.G. Strimaitis and J.S. Scire. 1998. Development and Evaluation of the PRIME Plume Rise and building Downwash Model. Submitted to Journal of the Air & Waste Management Association.

U.S. EPA (United States Environmental Protection Agency). 1995. User's Guide to the Building Profile Input Program. Office of Air Quality Planning and Standards. February 1995. Available at: https://nepis.epa.gov/Exe/ZyPDF.cgi/P1005RB7.PDF?Dockey=P1005RB7.PDF. Accessed: June 2023.

U.S. EPA. 1998. AP-42 Chapter 1.4 Natural Gas Combustion. Available at: https://www.epa.gov/sites/default/files/2020-09/documents/1.4_natural_gas_combustion.pdf. Accessed: November 2025.

U.S.EPA. 2005. 40 CFR Part 51 Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions; Final Rule. Available at https://www.govinfo.gov/content/pkg/FR-2005-11-09/pdf/05-21627.pdf. Accessed: May 2024.

U.S. EPA. 2024a. User's Guide for the AERMOD Meteorological Preprocessor (AERMET). United States Environmental Protection Agency (U.S. EPA). Research Triangle Park, North Carolina: Office of Air Quality Planning and Standards. Air Quality Assessment Division. November 2024.

U.S. EPA. 2024b. User's Guide for the AMS/EPA Regulatory Model AERMOD. United States Environmental Protection Agency. Office of Air Quality Planning and Standards. Air Quality Assessment Division. Research Triangle Park, North Carolina. EPA-454/B-23-008. November 2024.

Appendices

Appendix A Regional Sources and Emission Parameters

Table A.1 Regional Point Sources and Emission Parameters

Source ID	Operator	Facility	Source Description	Stack parameters							Emission Rate			Rain Cap	Non-Vertical
				UTM E (m)	UTM N (m)	Base Elevation (m)	H (m)	D (m)	V (m/s)	T (K)	NO_X (g/s)	CO (g/s)	$PM_{2.5}$ (g/s)		
S1	City of Calgary	Shepard Municipal Class II Landfill	Landfill Gas Flare Stack	292892	5647706	1029	12.2	2.10	0.03	1102	3.81E-01	4.52E-01	1.06E-02	No	No
S2	City of Calgary	Shepard Municipal Class II Landfill	732 kW Natural Gas Boiler B Stack	293320	5647766	1027	3.0	0.30	2.16	303	2.15E-02	2.59E-02	2.34E-03	No	No
S3	City of Calgary	Shepard Municipal Class II Landfill	47 kW Natural Gas Steam Boiler A Stack	293361	5647766	1027	3.0	0.30	2.16	303	1.29E-03	1.66E-03	1.51E-04	No	No
S4	City of Calgary	Shepard Municipal Class II Landfill	47 kW Natural Gas Steam Boiler B Stack	293401	5647762	1027	3.0	0.30	2.16	303	1.29E-03	1.66E-03	1.51E-04	No	No
S5	City of Calgary	Shepard Municipal Class II Landfill	44 kW Natural Gas Water Heater Stack	293447	5647760	1027	3.0	0.30	2.16	303	1.07E-03	1.56E-03	1.41E-04	No	No
S6	City of Calgary	Shepard Municipal Class II Landfill	164 kW Natural Gas Water Heater Stack	293491	5647751	1027	3.0	0.30	2.16	303	0.00E+00	0.00E+00	0.00E+00	No	No
S8	City of Calgary	Shepard Municipal Class II Landfill	Potassium Hydroxide Totes Exhaust Fan	293369	5647724	1026	3.0	0.10	0.01	293	0.00E+00	0.00E+00	0.00E+00	No	No
S9	City of Calgary	Shepard Municipal Class II Landfill	Lab Exhaust Hood	293430	5647723	1026	3.0	0.10	0.01	293	0.00E+00	0.00E+00	0.00E+00	No	No
S10	City of Calgary	Shepard Municipal Class II Landfill	Welding Fume Extraction Fan Exhaust Vent	293496	5647718	1026	2.9	0.06	1.22	419	0.00E+00	0.00E+00	0.00E+00	No	No
S11	City of Calgary	Shepard Municipal Class II Landfill	Class 1 Compost Facility Bio-gas Flare System Stack	294070	5647915	1027	7.6	0.20	7.10	1253	1.26E-01	4.48E-01	2.22E-01	No	No
S13	City of Calgary	Shepard Municipal Class II Landfill	500 kW Natural Gas Fired Boiler 1 Stack	293927	5648024	1028	6.5	0.20	5.30	363	4.05E-01	2.70E-01	8.74E-03	No	No
S14	City of Calgary	Shepard Municipal Class II Landfill	500 kW Natural Gas Fired Boiler 2 Stack	293981	5648022	1027	6.5	0.20	5.30	363	4.05E-01	2.70E-01	8.74E-03	No	No
S16	City of Calgary	Shepard Municipal Class II Landfill	3,300 kW Gas-fired Make-up Air Unit 1 Exhaust Stack	294091	5648018	1026	4.8	0.22	7.28	413	8.13E-02	1.16E-01	3.32E-04	No	No
S17	City of Calgary	Shepard Municipal Class II Landfill	3,300 kW Gas-fired Make-up Air Unit 2 Exhaust Stack	294159	5648011	1026	4.8	0.22	7.28	413	8.13E-02	1.16E-01	3.32E-04	No	No
S18	City of Calgary	Shepard Municipal Class II Landfill	Natural Gas Fuel Filter Vent	293366	5647873	1028	2.9	0.06	1.22	293	0.00E+00	0.00E+00	0.00E+00	No	No
S19	City of Calgary	Shepard Municipal Class II Landfill	Indoor Compost Process Bio-filtration System Bed Vent	293404	5647867	1028	14.5	1.35	0.01	293	0.00E+00	0.00E+00	0.00E+00	No	No
S20	City of Calgary	Shepard Municipal Class II Landfill	Compost Curing Storage Building Vent	293439	5647863	1028	3.0	0.50	0.01	293	0.00E+00	0.00E+00	0.00E+00	No	No
S21	City of Calgary	Shepard Municipal Class II Landfill	Steam Powered Acid Double Drum Dryer Exhaust Hood	293482	5647857	1027	3.0	0.75	0.01	293	0.00E+00	0.00E+00	0.00E+00	No	No
S22	City of Calgary	Shepard Municipal Class II Landfill	Steam Powered Acid Double Drum Dryer Exhaust Stack	293474	5647812	1027	3.0	0.75	0.01	293	0.00E+00	0.00E+00	0.00E+00	No	No
S23	City of Calgary	Shepard Municipal Class II Landfill	1,816 kW Natural Gas Steam Boiler Stack	293424	5647817	1027	3.0	0.50	2.16	303	5.37E-02	6.43E-02	5.82E-03	No	No
S24	City of Calgary	Shepard Municipal Class II Landfill	732 kW Natural Gas Boiler A Stack	293363	5647819	1027	3.0	0.25	2.16	303	2.15E-02	2.59E-02	2.34E-03	No	No
S25	City of Calgary	East Calgary Municipal Class II Landfill	Landfill Gas Flare Stack	293164	5656476	1055	12.2	2.10	0.05	1142	3.97E-02	7.61E-01	1.71E-02	No	No
S27	City of Calgary	East Calgary Municipal Class II Landfill	Genset Stack	293151	5656500	1055	8.4	0.35	10.60	783	3.89E-01	5.25E-01	9.72E-03	No	No

Source ID	Operator	Facility	Source Description	Stack parameters							Emission Rate			Rain Cap	Non-Vertical
				UTM E (m)	UTM N (m)	Base Elevation (m)	H (m)	D (m)	V (m/s)	T (K)	NO_X (g/s)	CO (g/s)	$PM_{2.5}$ (g/s)		
S28	City of Calgary	East Calgary Municipal Class II Landfill	Candlestick Flare Stack	293154	5656499	1055	4.3	0.45	0.03	1164	4.65E-02	2.11E-01	8.17E-02	No	No
S29	City of Calgary	East Calgary Municipal Class II Landfill	STS Stack	293158	5656499	1055	6.1	0.19	8.53	366	0.00E+00	0.00E+00	0.00E+00	No	No
S30	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	HRSG Stack No. 1	297485	5650575	1028	60.0	6.42	21.00	355	3.33E+01	6.21E+00	7.43E-02	No	No
S31	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	HRSG Stack No. 2	297483	5650534	1028	60.0	6.42	21.00	355	3.33E+01	6.21E+00	7.43E-02	No	No
S32	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	Auxiliary Boiler Exhaust Stack	297467	5650510	1028	48.0	1.21	12.80	377	5.53E+00	3.32E+00	3.00E-01	No	No
S35	Future Energy Park Inc.	Calgary Biofuels and Power Plant	OTSG 1 Exhaust Stack	295484	5655017	1047	18.3	2.63	10.08	346	3.86E+00	9.00E-01	3.62E-01	No	No
S36	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Bin 2 Exhaust Stack	295550	5655197	1048	34.2	0.61	12.70	273	0.00E+00	0.00E+00	9.16E-03	No	No
S37	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Bin 3 Exhaust Stack	295560	5655203	1048	34.2	0.61	12.70	273	0.00E+00	0.00E+00	9.16E-03	No	No
S38	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Bin 4 Exhaust Stack	295569	5655196	1048	34.2	0.61	12.70	273	0.00E+00	0.00E+00	9.16E-03	No	No
S39	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Bin 5 Exhaust Stack	295568	5655186	1048	34.2	0.61	12.70	273	0.00E+00	0.00E+00	9.16E-03	No	No
S40	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Bin 6 Exhaust Stack	295559	5655181	1048	34.2	0.61	12.70	273	0.00E+00	0.00E+00	9.16E-03	No	No
S41	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Handling Area Exhaust Stack	295511	5655227	1049	9.0	0.51	28.30	273	0.00E+00	0.00E+00	4.06E-03	No	No
S44	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Emergency Flare Stack	295506	5654897	1047	30.0	0.41	57.20	1414	2.00E-01	1.04E+00	6.65E-01	No	No
S45	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Offgas Scrubber Exhaust Stack	295585	5654969	1046	11.9	0.58	9.53	336	0.00E+00	0.00E+00	0.00E+00	No	No
S46	Future Energy Park Inc.	Calgary Biofuels and Power Plant	OTSG 2 Exhaust Stack	295482	5654986	1047	18.3	2.63	10.08	346	3.86E+00	9.00E-01	3.62E-01	No	No
S47	Future Energy Park Inc.	Calgary Biofuels and Power Plant	CO2 Scrubber Exhaust Stack	295580	5654954	1047	11.9	0.58	9.53	336	0.00E+00	0.00E+00	0.00E+00	No	No
S48	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Aldehyde Scrubber Exhaust Stack	295579	5654926	1046	11.9	0.58	9.53	336	0.00E+00	0.00E+00	0.00E+00	No	No
S49	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Alcohol Scrubber Exhaust Stack	295576	5654907	1046	11.9	0.58	9.53	336	0.00E+00	0.00E+00	0.00E+00	No	No
S50	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Regenerative Thermal Oxidizer Exhaust Stack	295343	5655152	1049	12.2	1.00	11.50	1250	1.04E-01	7.99E-02	7.67E-02	No	No
S51	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Natural Gas Fired Regeneration Gas Heater Exhaust Stack	295332	5655074	1048	4.5	0.31	5.10	505	8.33E-05	2.08E-04	2.08E-06	No	No
S52	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Mill 1 Exhaust Stack	295474	5655169	1049	34.5	0.51	28.30	333	0.00E+00	0.00E+00	7.13E-02	No	No
S53	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Mill 2 Exhaust Stack	295482	5655169	1049	34.5	0.51	28.30	333	0.00E+00	0.00E+00	7.13E-02	No	No
S54	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Mill 3 Exhaust Stack	295494	5655168	1049	34.5	0.51	28.30	333	0.00E+00	0.00E+00	7.13E-02	No	No
S55	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Mill 4 Exhaust Stack	295504	5655168	1048	34.5	0.51	28.30	333	0.00E+00	0.00E+00	7.13E-02	No	No
S56	Future Energy Park Inc.	Calgary Biofuels and Power Plant	Grain Bin 1 Exhaust Stack	295550	5655187	1048	34.2	0.61	12.70	273	0.00E+00	0.00E+00	9.16E-03	No	No
S57	Lafarge Canada Inc.	Calgary East Asphalt	Dust Collector 8000 cfm	296671	5654187	1043	25.0	0.60	13.35	288	0.00E+00	0.00E+00	2.70E-02	No	No
S58	GFL Environmental Services Inc.	Recycle West	Dust Collector	292991	5654585	1045	15.0	0.60	13.35	288	0.00E+00	0.00E+00	3.27E-02	No	No
S59	Viterra Inc.	Indus Viterra	Dust Collector	308536	5641934	1018	30.0	0.60	13.35	288	0.00E+00	0.00E+00	2.03E-02	No	No

Source ID	Operator	Facility	Source Description	Stack parameters							Emission Rate			Rain Cap	Non-Vertical
				UTM E (m)	UTM N (m)	Base Elevation (m)	H (m)	D (m)	V (m/s)	T (K)	NO_X (g/s)	CO (g/s)	$PM_{2.5}$ (g/s)		
S60	Burnco Rock Products Ltd.	Indus Aggregate Pit	Diesel Generator	299833	5637625	968	7.5	0.35	29.00	645	5.50E-01	1.19E-01	1.08E-02	No	No

Notes:

H – Stack Height

D – Stack Diameter

V – Exit Velocity

T – Exhaust Temperature

Table A.2 Regional Volume Sources and Emission Parameters

Source ID	Operator	Facility	Source Description	Stack parameters						Emission Rate		
				UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Effective Height (m)	Initial σ_y (m)	Initial σ_z (m)	NO_X (g/s)	CO (g/s)	$PM_{2.5}$ (g/s)
NP15	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	14-Cell Cooling Tower	297521	5650355	1027	18.7	31.6	8.70	0	0	2.33E-03

Table A.3 Regional Area Sources and Emission Parameters

Source ID	Operator	Facility	Source Description	Stack parameters		Emission Rate		
				Effective Height (m)	Initial σ_z (m)	NO_X (g/s)	CO (g/s)	$PM_{2.5}$ (g/s)
NP1	City of Calgary	Shepard Municipal Class II Landfill	Building Space Heater Exhaust Vents	3.0	1.40	2.52E-02	2.16E-02	1.95E-03
NP13	City of Calgary	East Calgary Municipal Class II Landfill	Space Heater Exhaust Vents	2.0	0.93	2.50E-02	2.08E-02	6.68E-04
NP14	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	Combined Minor Natural Gas Combustion Sources	20.0	9.30	1.55E-01	2.60E-01	7.32E-04
NP16	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	General Diesel Usage	12.0	5.58	7.60E-03	1.64E-03	5.34E-04

Table A.4 Regional Area Sources Locations

Source ID	Operator	Facility	Source Description	Corner 1		Corner 2		Corner 3		Corner 4		Corner 5		Corner 6		Corner 7		Corner 8		Base Elevation (m)
				UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	UTM E (m)	UTM N (m)	
NP1	City of Calgary	Shepard Municipal Class II Landfill	Building Space Heater Exhaust Vents	292442	5647648	292437	5647022	294209	5646946	294232	5648186	293841	5648355	292870	5648383	292842	5647634	-	-	1029
NP13	City of Calgary	East Calgary Municipal Class II Landfill	Space Heater Exhaust Vents	293878	5657165	294578	5657129	294578	5656508	293889	5656552	-	-	-	-	-	-	-	-	1054
NP14	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	Combined Minor Natural Gas Combustion Sources	297383	5650655	297513	5650651	297508	5650443	297375	5650456	-	-	-	-	-	-	-	-	1028
NP16	ENMAX Generation Portfolio Inc.	Shepard 900 MW Energy Centre	General Diesel Usage	297383	5650655	297513	5650651	297508	5650443	297375	5650456	-	-	-	-	-	-	-	-	1028

Appendix B Climate and Meteorology in the Study Area

B.1 Introduction

Stantec has analyzed the meteorological data that were developed and used in the Air Quality Assessment for the Beacon Power Generation Project (the Project). Five years of meteorological data from January 1, 2015, to December 31, 2019, were used in the dispersion modelling study which was outlined in the main report. The AEP extraction utility software Multi-modal Extraction Utility 2 (MMEU2) was used to extract the site-specific surface and upper air meteorological data from the 2015-2019 WRF 4-km grid meteorological data provided by Alberta Environment and Parks (AEP 2021a).

The AERMOD meteorological pre-processor AERMET (most recent v24142) was used to process the meteorological dataset used in dispersion modelling (U.S. EPA 2024). The MMEU2 provides a formatted standardized Solar and Meteorological Surface Observation Network (SAMSON) surface station file and a Radiosonde Observation (RAOBS) upper air station file that are readable by the AERMOD modelling system meteorological model AERMET (U.S. EPA, 2024).

AERMET is used to estimate two stability parameters, friction velocity and Monin-Obukhov length, to characterize the amount of turbulence in the atmosphere. The friction velocity is a measure of mechanical effects alone, such as wind shear at ground-level. The Monin-Obukhov length indicates the relative strengths of mechanical and buoyancy effects on atmospheric turbulence. Thus, AERMOD can account for turbulence both from wind shear, and from buoyancy effects due to solar heating during the day and radiational cooling at night. To properly account for these effects, AERMET requires three land use parameters: albedo, Bowen ratio, and surface roughness. Albedo is defined as the fraction of total incident solar radiation reflected by a particular surface without absorption. Bowen ratio is an indicator of surface moisture conditions and can be defined as the ratio of the sensible heat flux to the latent heat flux. Surface roughness is a length scale that characterizes the roughness of the earth’s surface.

B.2 Surface Characteristics

For this assessment, the 2015 Land Use Cover of Canada (NRCan, 2020) was used to determine land use categories within the 3km of the Project. The 2015 Land Cover of Canada data was extracted by AEP MMEU2. Site-specific values for albedo, Bowen ratio, and surface roughness were selected based on land use within 3 km of the Project and on the Air Quality Model Guideline (AQMG; (AEP 2021b). Considering the surface characteristics surrounding the Project, one wind direction sectors were used in the AERMET stage 2 run. Selected land type surface parameters are presented in Table B.1. The values of each parameter were based on AQMG Appendix E (AEP 2021b) and varied as a function of month of year to account for the changing surface characteristics of the growing seasons and snow cover.

Table B.1 Surface Parameters Applied in AERMET Processing (Wind Direction 0 to 360)

Month	Albedo	Bowen Ratio	Surface Roughness (m)
January	0.600	0.500	0.014
February	0.600	0.500	0.014
March	0.600	0.500	0.014
April	0.140	0.300	0.040
May	0.140	0.300	0.040
June	0.200	0.500	0.200
July	0.200	0.500	0.200
August	0.200	0.500	0.200
September	0.200	0.700	0.200
October	0.200	0.700	0.200
November	0.600	0.500	0.014
December	0.600	0.500	0.014

Note:

Sector of wind direction 0 to 360 degrees use values of agricultural land

B.3 Meteorology In the Study Area

The meteorological data used to run AERMOD (as output from AERMET) can be summarized in terms of its major parameters: ambient temperature, wind speed and direction, atmospheric stability, and mixing height. The following sections discuss these parameters and present the results of analyses performed on the meteorological dataset.

B.3.1 Ambient Temperature

Average and median surface temperatures extracted at the project site for January 1, 2015, to December 31, 2019, are provided in Table B.2. Extreme minimum and maximum temperatures for the five-year period were -31.5 and 34.4 °C, respectively.

Table B.2 Average and Median Surface Temperatures for the Project Site Based on AERMET Data from January 1, 2015 to December 31, 2019

Season	Air Temperature (°C)	
	Average	Median
Winter	-4.9	-3.3
Spring	8.0	7.8
Summer	16.1	15.7
Autumn	6.9	6.5

Note:

[a] Winter: November, December, January, February and March. Spring: April, and May. Summer: June, July, and August. Autumn: September and October.

B.3.2 Winds

Figure B.1 shows the frequency distributions of hourly average wind speed based on the meteorological dataset applied in dispersion modelling from January 1, 2015, to December 31, 2019. For 77.5% of the time, wind speeds were less than 4.0 m/s.

Wind roses are an efficient and convenient means of presenting wind data. The length of the radial barbs gives the total percent frequency of winds from the indicated direction, while portions of the barbs of different widths indicate the frequency of associated wind speed categories. Figure B.2 presents the annual wind rose. Winds are mainly from west, southwest, south, and southeast.

Figure B.1 Frequency Distribution of Hourly Average Wind Speed for the Project Site Based on AERMET Data from January 1, 2015 to December 31, 2019

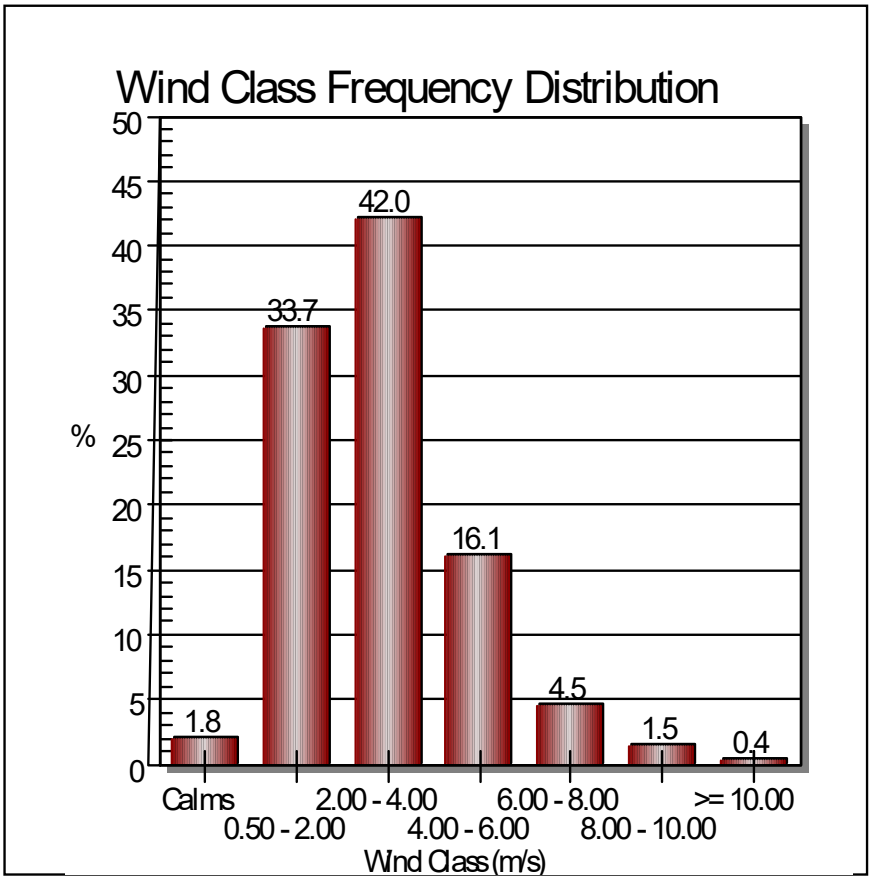
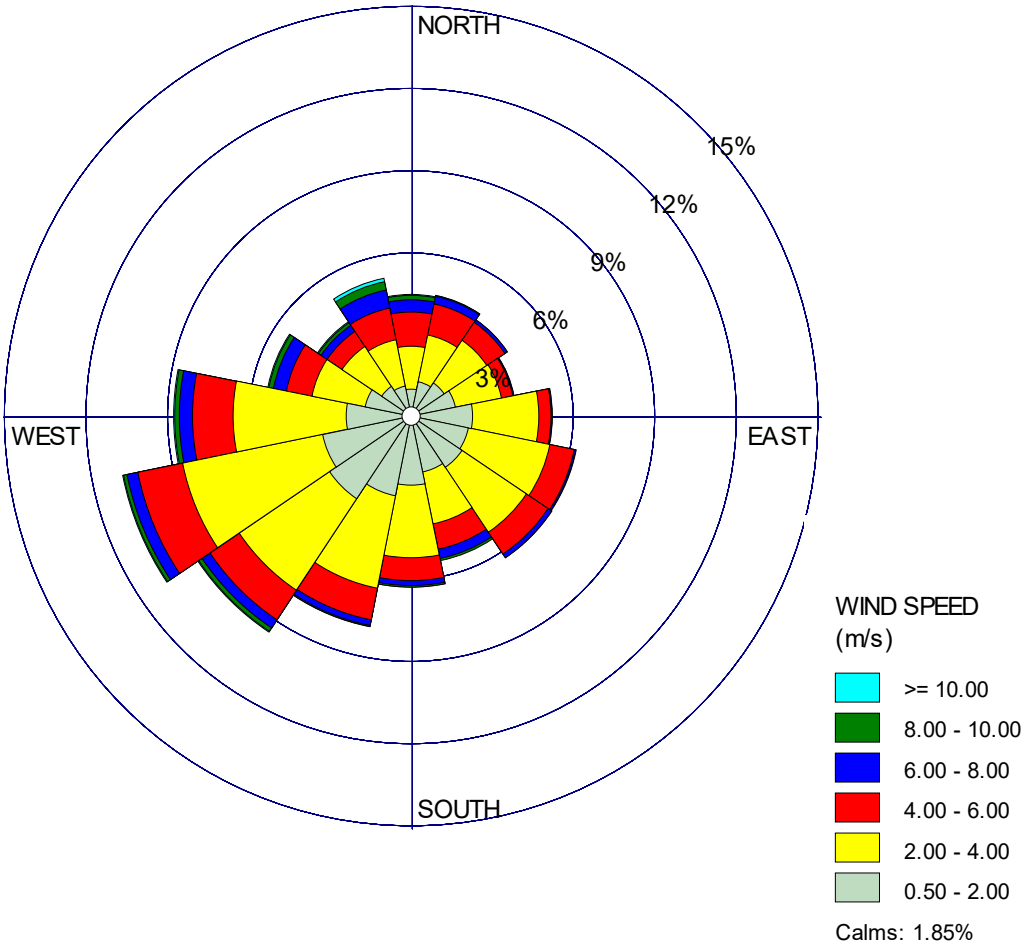


Figure B.2 Annual Wind Rose of Hourly Average Wind Speed and Direction for the Site Based on AERMET Data from January 1, 2015 to December 31, 2019

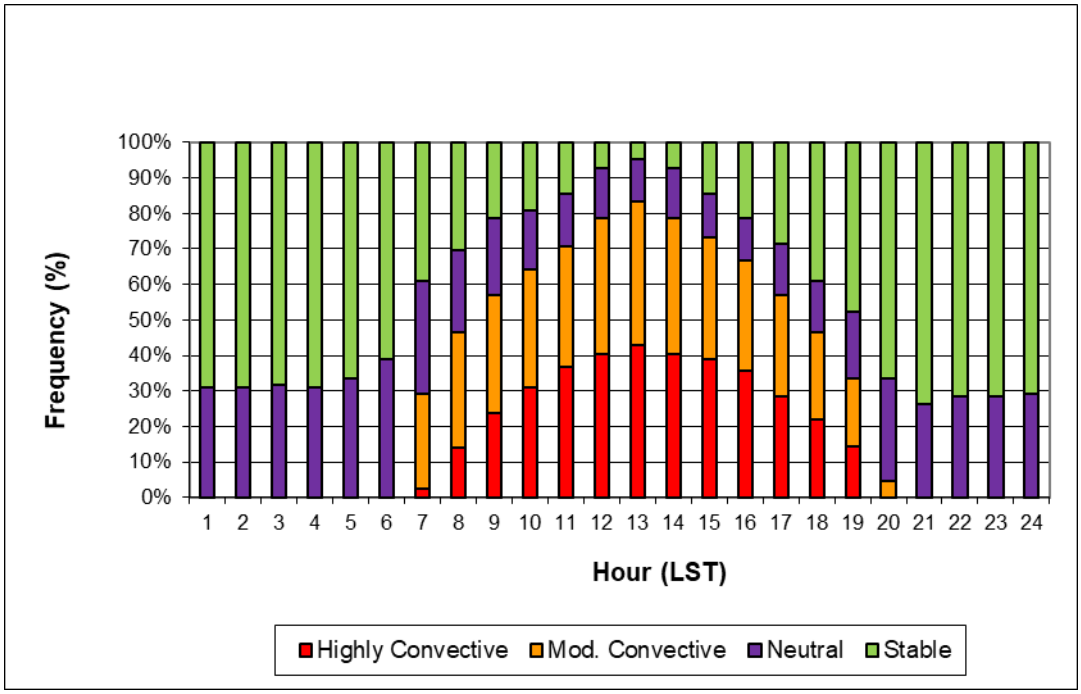


B.3.3 Atmospheric Stability

Atmospheric turbulence near the earth's surface is a function of atmospheric stability, which is governed by thermal and mechanical influences. The atmosphere can be broadly described as being stable, neutral, or unstable. During night-time hours, the earth's surface emits thermal radiation and cools. Air in contact with the ground thus becomes cooler and denser than the air aloft. This phenomenon is referred to as a ground-based temperature inversion. Vertical motions of the atmosphere are suppressed, and the atmosphere is described as stable. This contrasts with daytime situations when the sun heats the ground. Air in contact with the ground becomes warmer and less dense than the air aloft. Vertical motions of the atmosphere are enhanced, and the atmosphere is said to be unstable. When a balance exists between incoming and outgoing radiation, there is no net heating or cooling of the air in contact with the ground and vertical motions of the atmosphere are neither enhanced nor suppressed. Such an atmosphere is described as neutral and exists during overcast skies or in transition from unstable to stable conditions. Mechanical mixing may also create neutral atmospheres generated by strong winds.

Figure B.3 presents the frequency distribution of atmospheric stability with time of day for meteorological data applied in dispersion modelling. Generally, highly and moderately unstable conditions are dominant from early morning (approximately 09:00) to early evening (approximately 17:00) while neutral and stable conditions occur most often during night-time.

Figure B.3 Frequency Distribution of Atmospheric Stability with Time of Day for the Project Site Based on AERMET Data from January 1, 2015 to December 31, 2019



B.3.4 Mixing Height

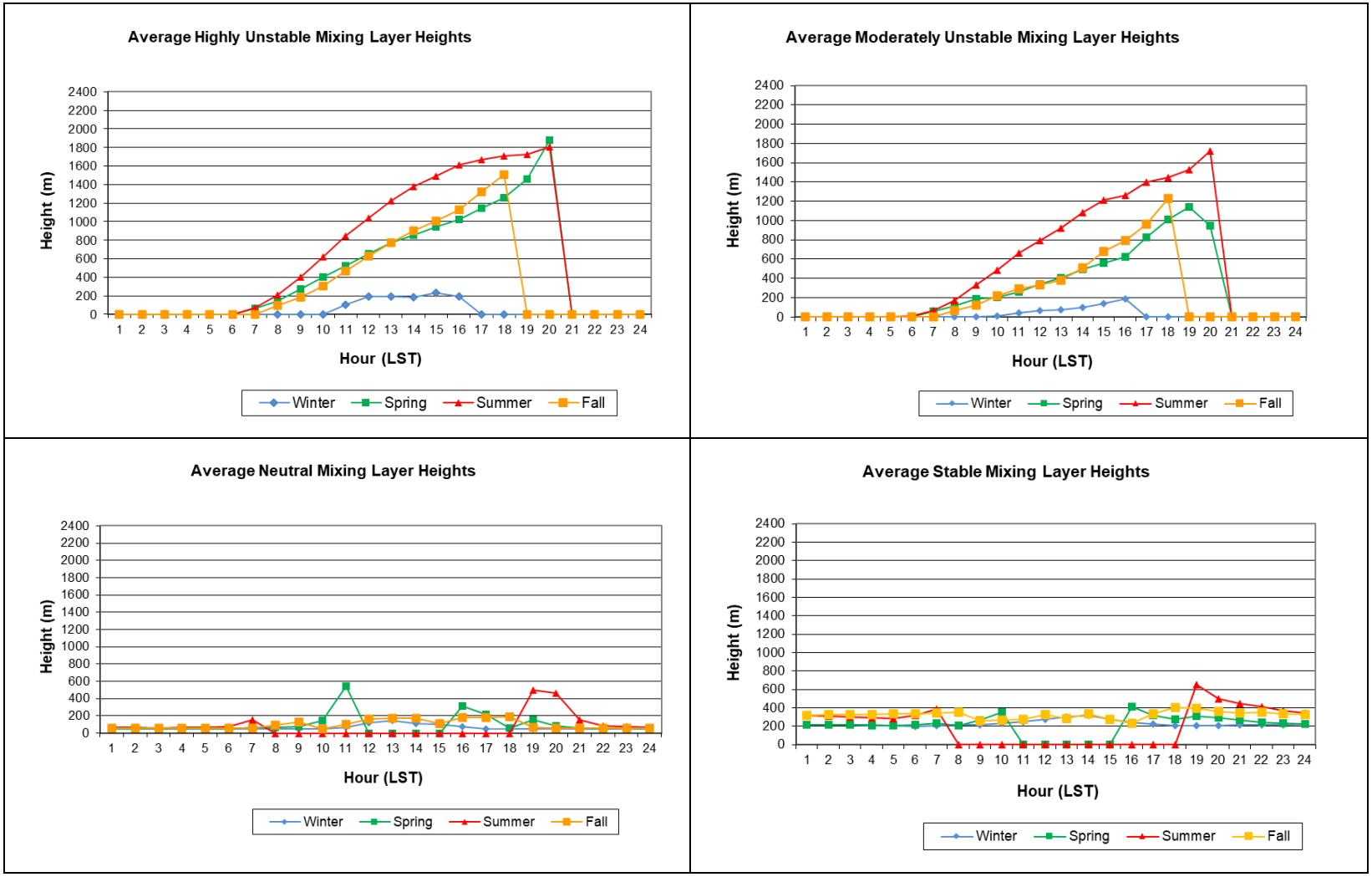
Strong solar heating or strong winds can create a two-layered atmosphere. The lower layer is well mixed and characterized by either neutral or unstable conditions; the upper layer is characterized by stable conditions (elevated temperature inversion). Vertical motions in the upper layer are damped, which effectively prevents the transfer of air between the two layers. The depth of this lower atmospheric boundary layer is defined as the mixing height. Thus, emissions injected into the mixing layer may become trapped if they do not have enough buoyancy or momentum to penetrate the elevated stable layer. This leads to the classical trapping situation that is often associated with poor air quality.

Mechanical interactions result in mixing of air by roughness at the surface of the earth. Surface roughness can be due to topography, forests, or buildings. Heights of the mechanically mixed layer are location dependent and proportional to wind speed.

Atmospheric thermal interactions are caused by the effects of solar radiation. During the day, unstable conditions are created by radiation from the sun. This creates warmer, less dense air that rises, while cooler, more dense air from above sinks to ground level. As air rises, it expands and cools. Upward motion ceases at the height where rising air reaches the same temperature as surrounding air. This height is called the convective mixing height. It is dependent on the intensity of solar radiation and vertical temperature characteristics of the air mass.

The hourly distribution of average mixing layer height for highly unstable, moderately unstable, neutral, and stable atmospheric conditions for meteorological data applied in dispersion modelling are presented in Figure B.4. Mixing heights vary from several tens of metres to couple of thousands of metres, depending on the intensity of solar radiation reaching the earth’s surface and wind speed. Mixing heights are much greater during the spring, summer, and fall than the winter. Maximum mixing heights usually occur during late afternoon hours when the effects of solar heating are greatest, while minimum heights occur at night.

Figure B.4 Hourly Distribution of Average Mixing Layer Heights for Highly Unstable, Moderate Unstable, Neutral, and Stable Conditions by Season for the Project Site Based on AERMET Data from January 1, 2015 to December 31, 2019



B.4 References

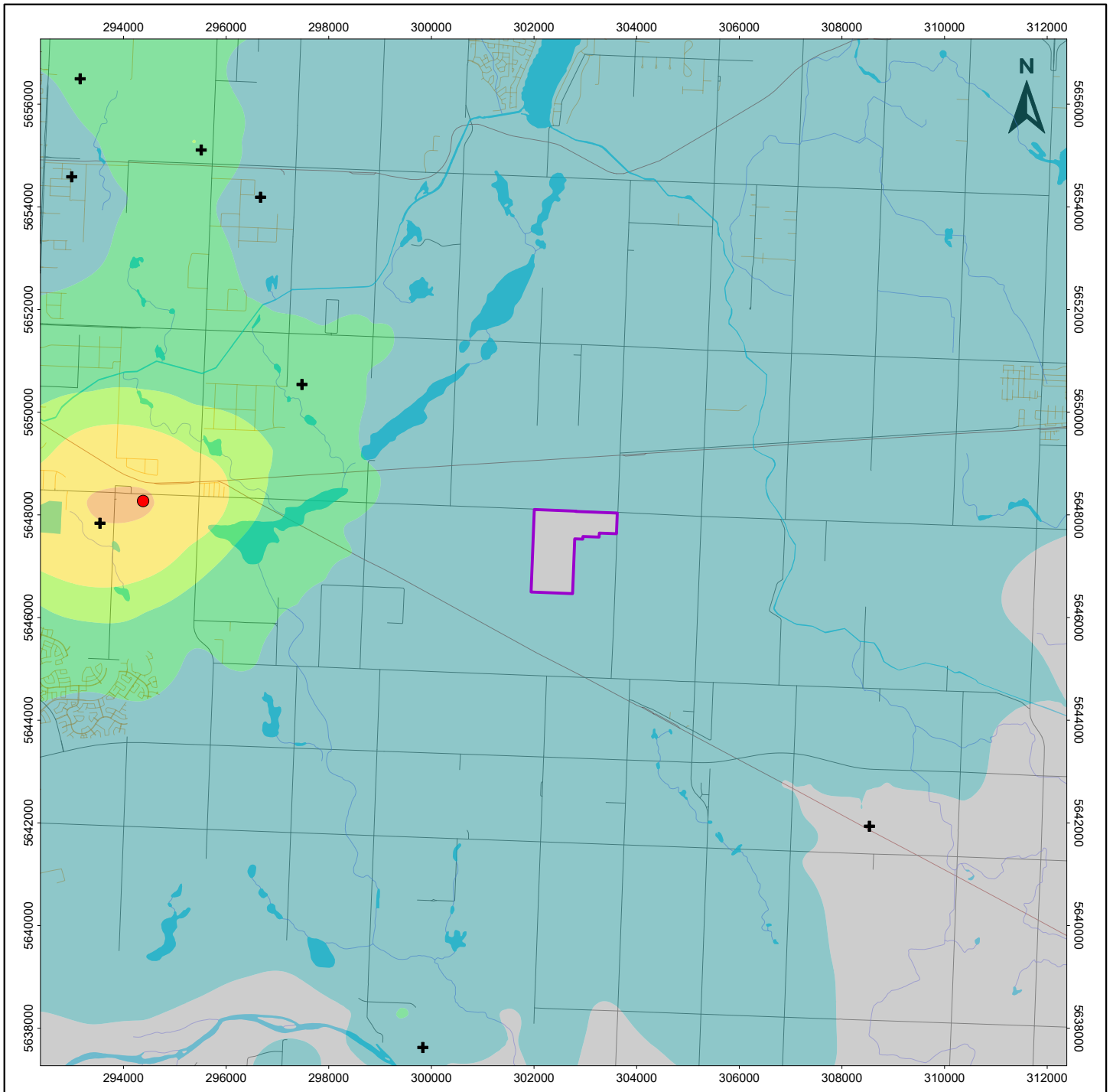
AEP (Alberta Environment and Parks). 2021a. The Alberta Weather Research Forecast (WRF) meteorological data for 2015 to 2019. September 2021. Alberta Environment and Parks (AEP). Available at: https://www.alberta.ca/meteorological-data-for-dispersion-models.aspx

AEP 2021b. Air Quality Model Guideline. September 2021. Alberta Environment and Parks (AEP). Available at: https://open.alberta.ca/publications/air-quality-model-guideline-2021

NRCan (Natural Resources Canada). 2020. Natural Resources Canada 2015 Land Cover of Canada dataset available at : https://open.canada.ca/data/en/dataset/4e615eae-b90c-420b-adee-2ca35896caf6

U.S. EPA (United States Environmental Protection Agency). 2024. User's Guide for the AERMOD Meteorological Preprocessor (AERMET). United States Environmental Protection Agency (U.S. EPA). Research Triangle Park, North Carolina: Office of Air Quality Planning and Standards. Air Quality Assessment Division. November 2024.

Appendix C Isopleths of Maximum Predicted Concentrations



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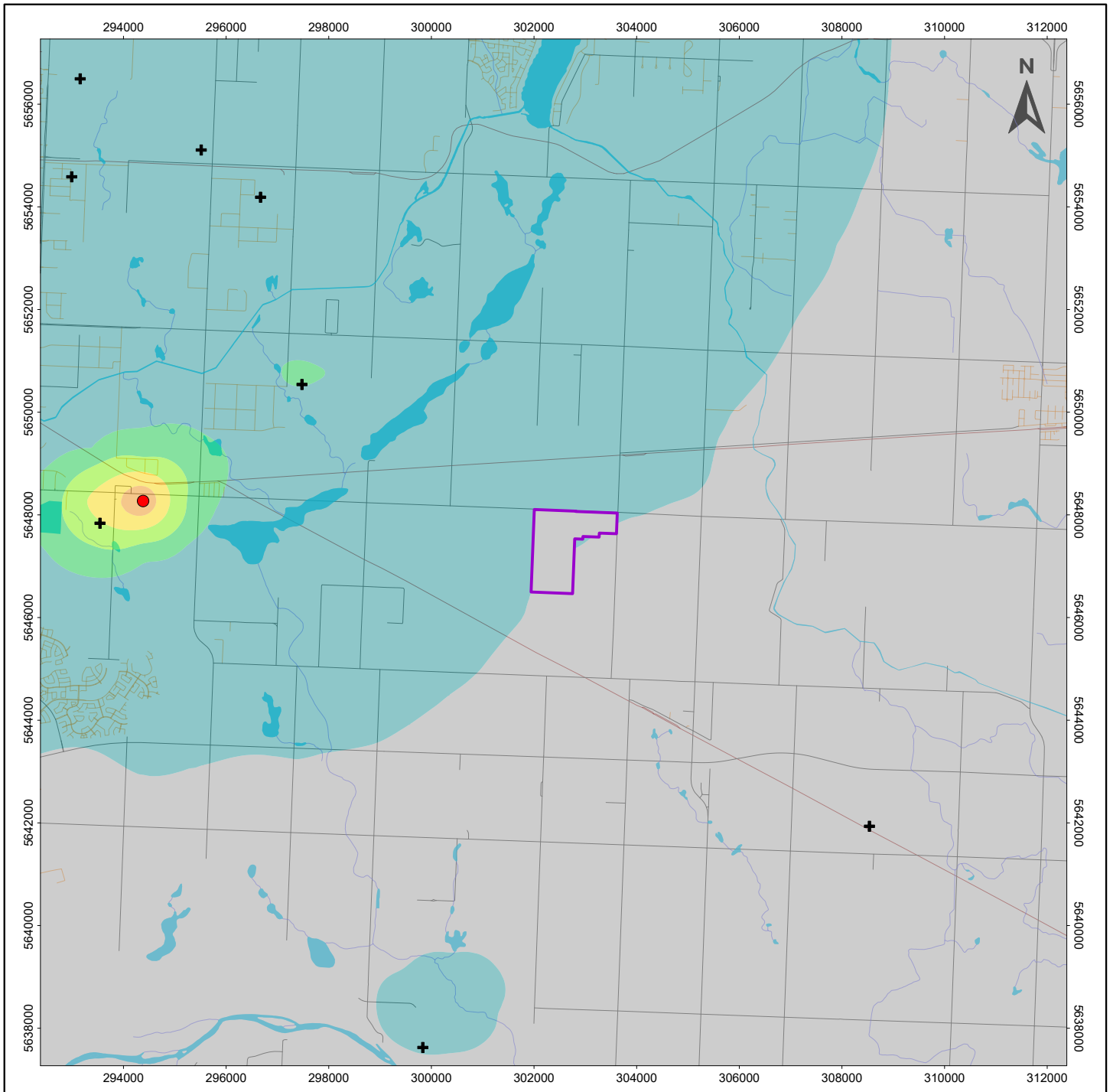
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Maximum Predicted 1-hour NO_2 (ARM2) Concentrations (Base Case)

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FIGURE NO. C.1



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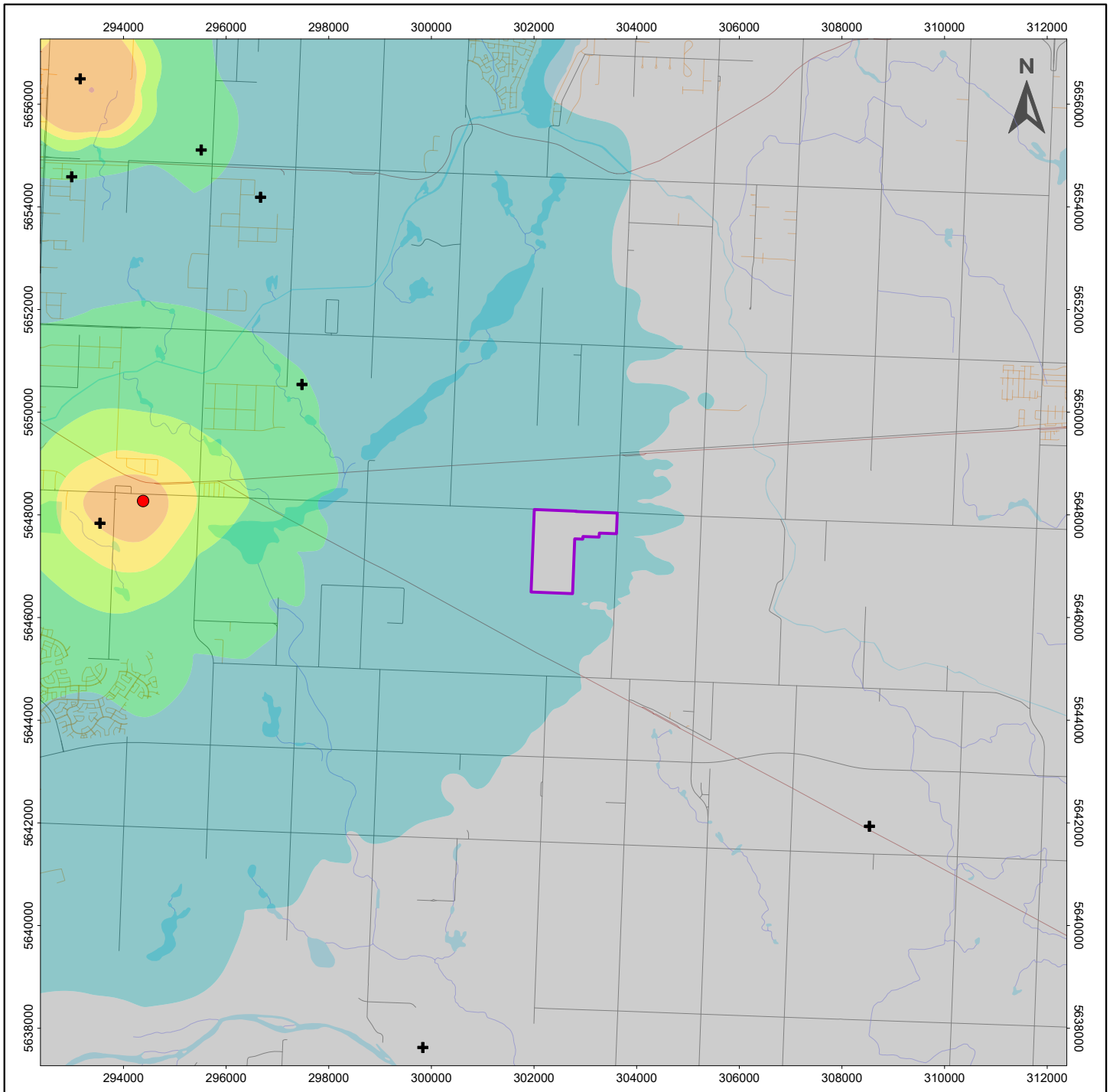
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Maximum Predicted Annual NO_2 (ARM2) Concentrations (Base Case)

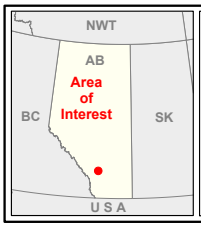
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FIGURE NO. C.2



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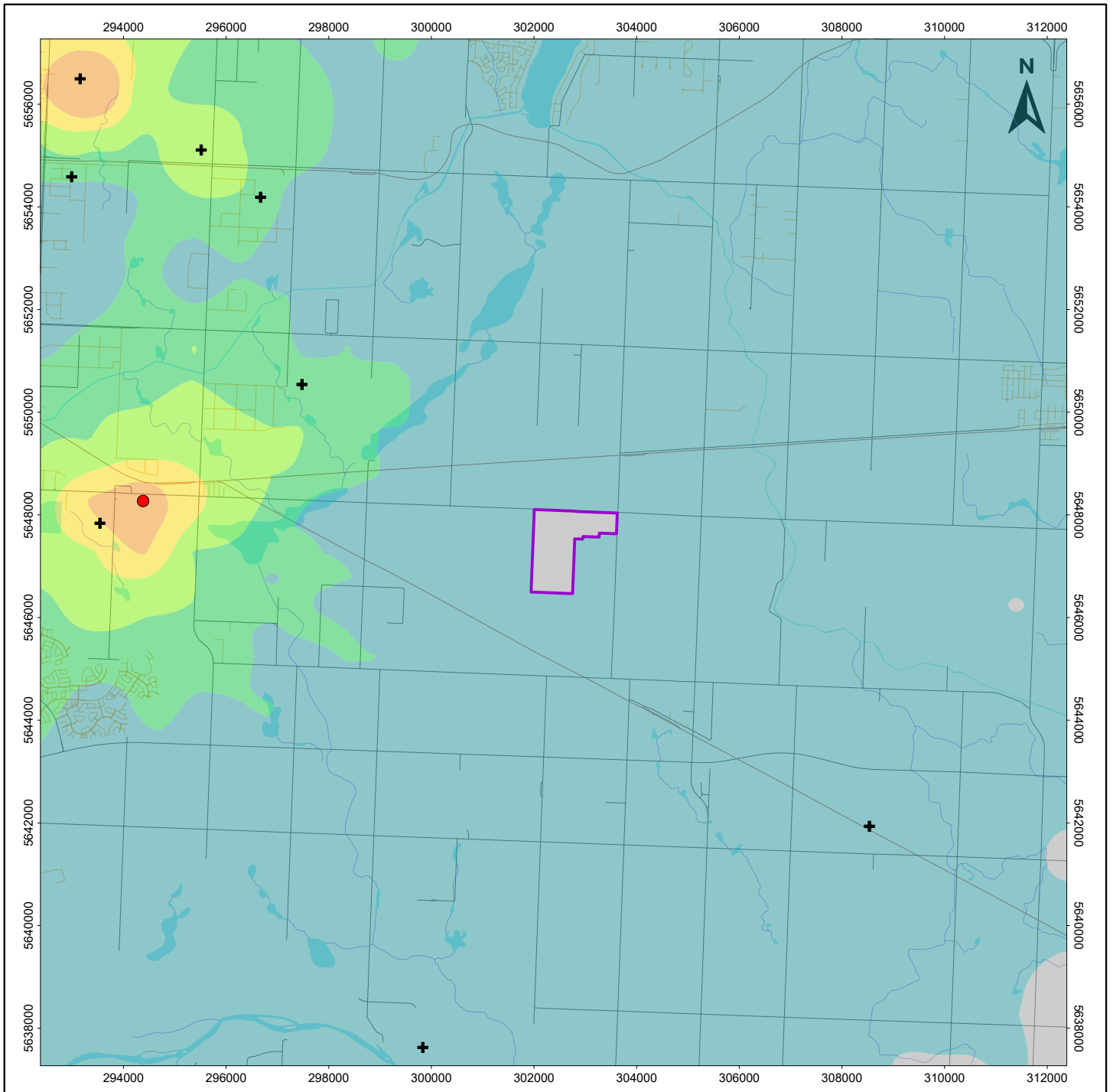
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Maximum Predicted 1-hour $PM_{2.5}$ Concentrations (Base Case)

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FIGURE NO. C.3





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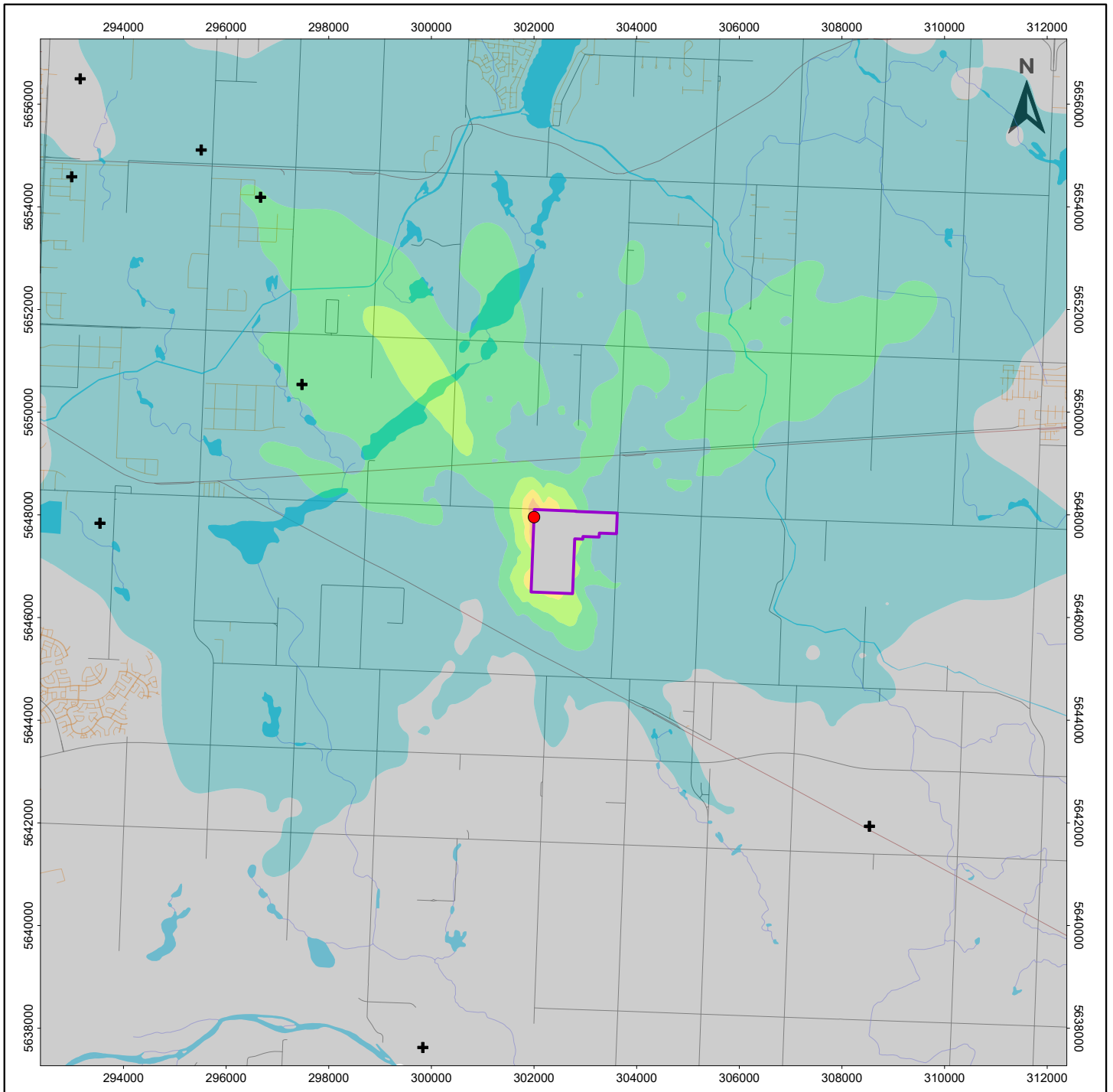
Maximum Predicted 24-hour $PM_{2.5}$ Concentrations (Base Case)

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FIGURE NO. C.4

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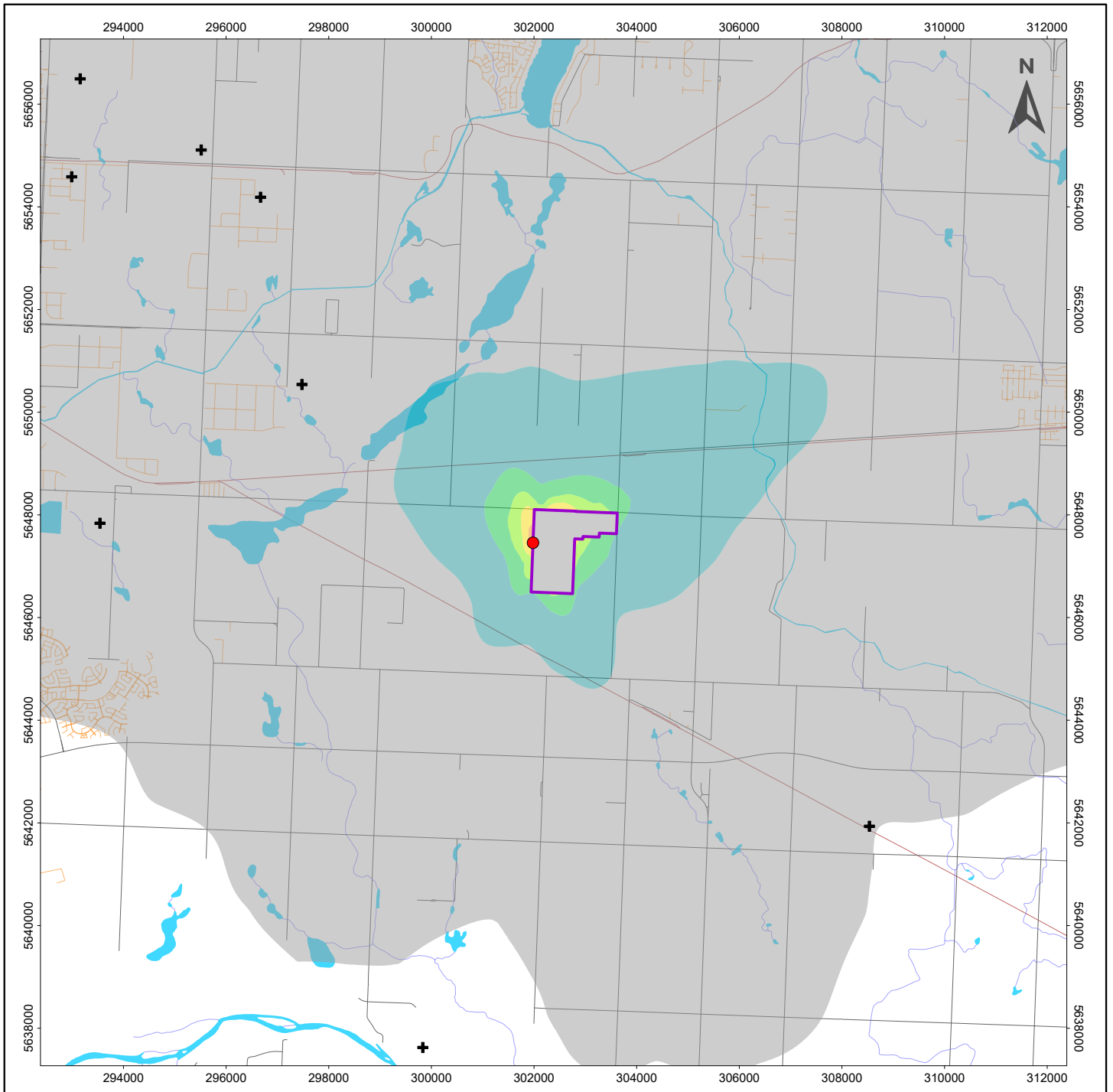
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted 1-hour NO_2 (ARM2) Concentrations (Project Case)

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FIGURE NO.
C.5



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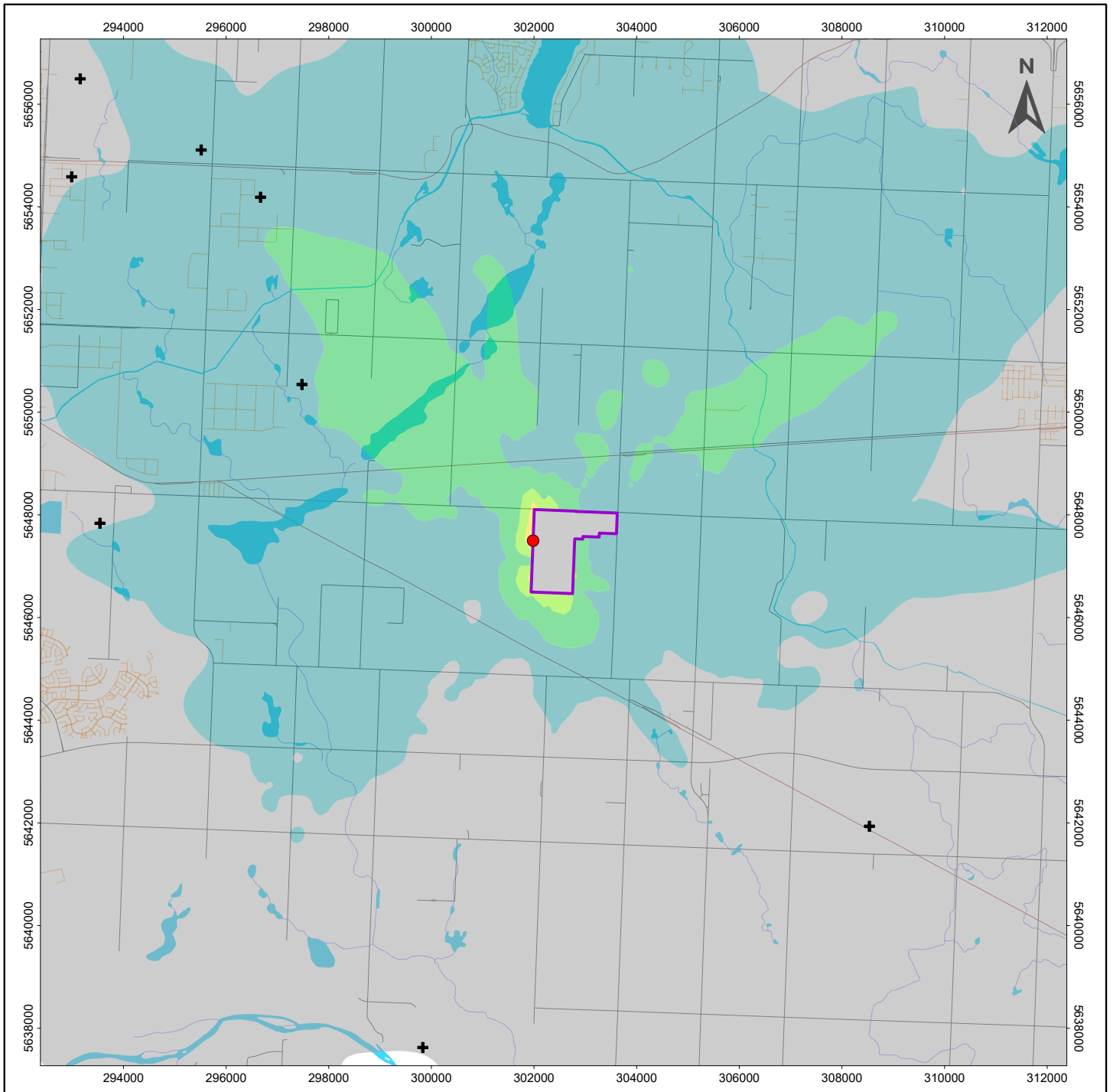
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted Annual NO_2 (ARM2) Concentrations (Project Case)

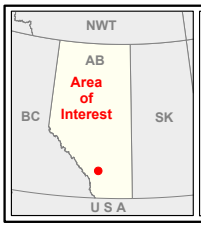
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FIGURE NO.
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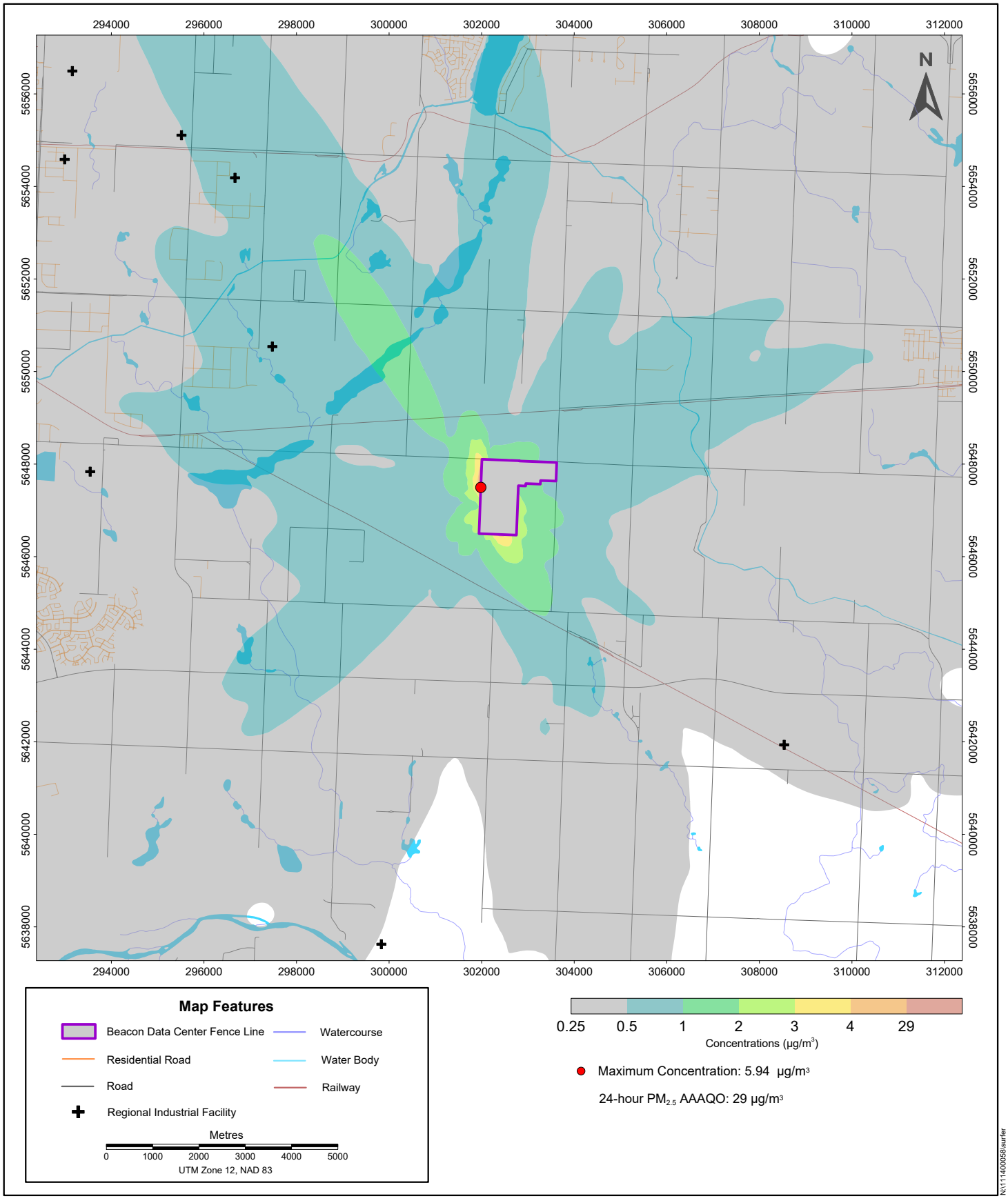
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted 1-hour $PM_{2.5}$ Concentrations (Project Case)

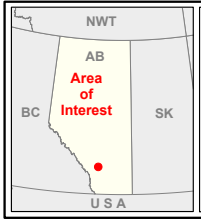
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FIGURE NO. C.7



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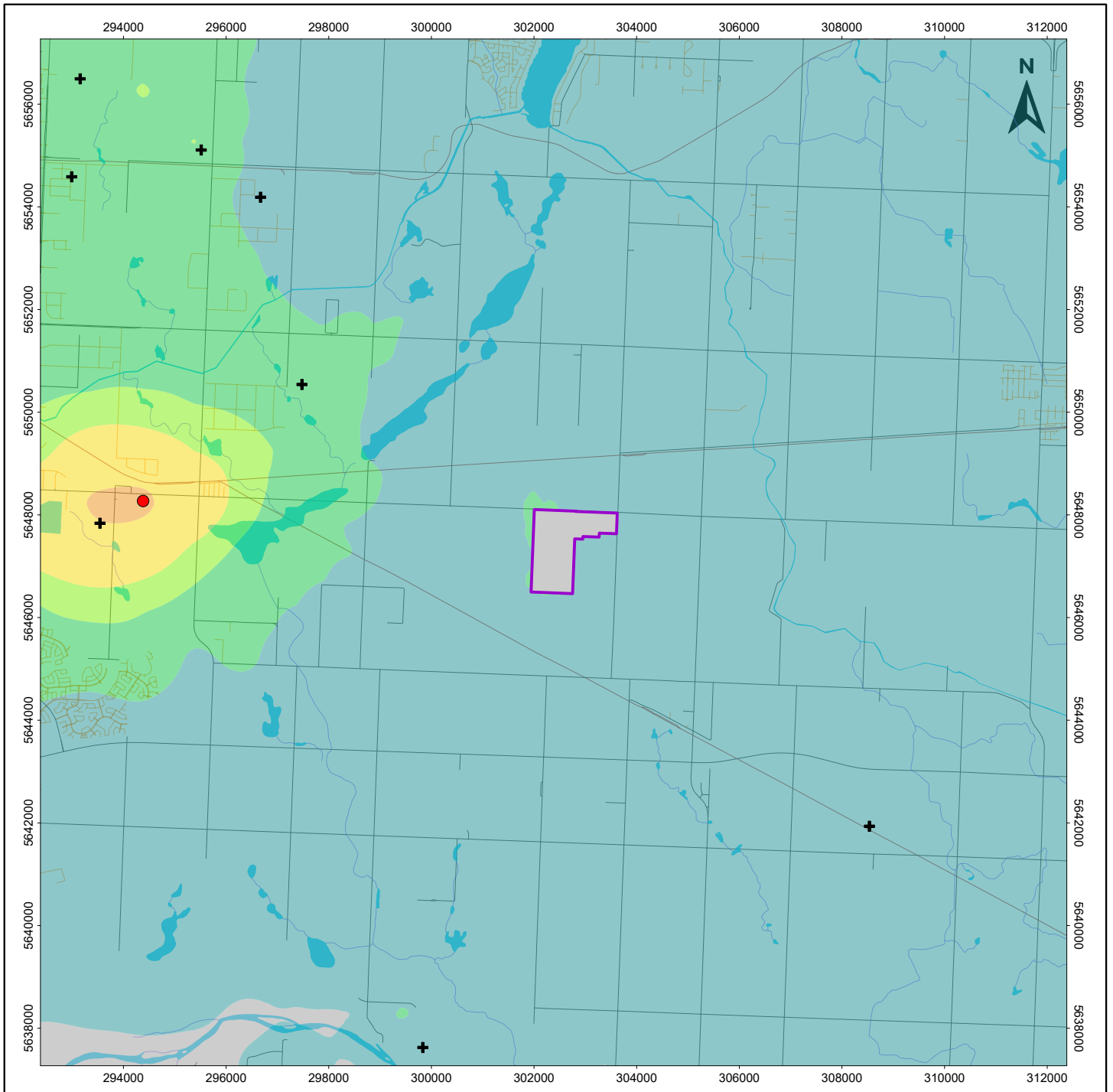
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted 24-hour $PM_{2.5}$ Concentrations (Project Case)

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FIGURE NO.
C.8



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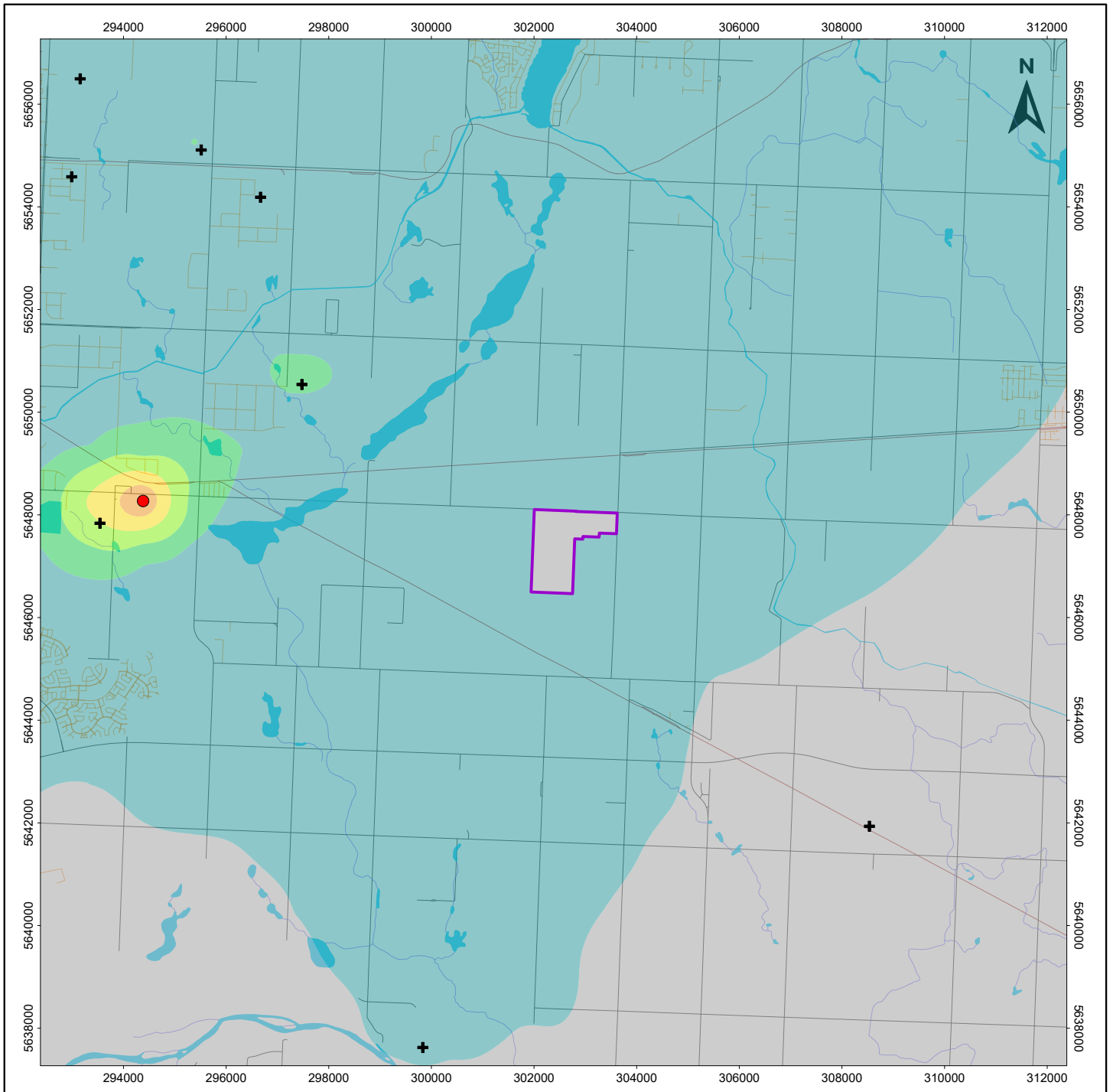
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted 1-hour NO_2 (ARM2) Concentrations (Application Case)

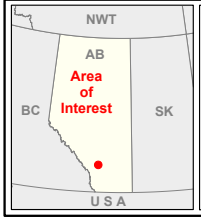
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FIGURE NO. C.9



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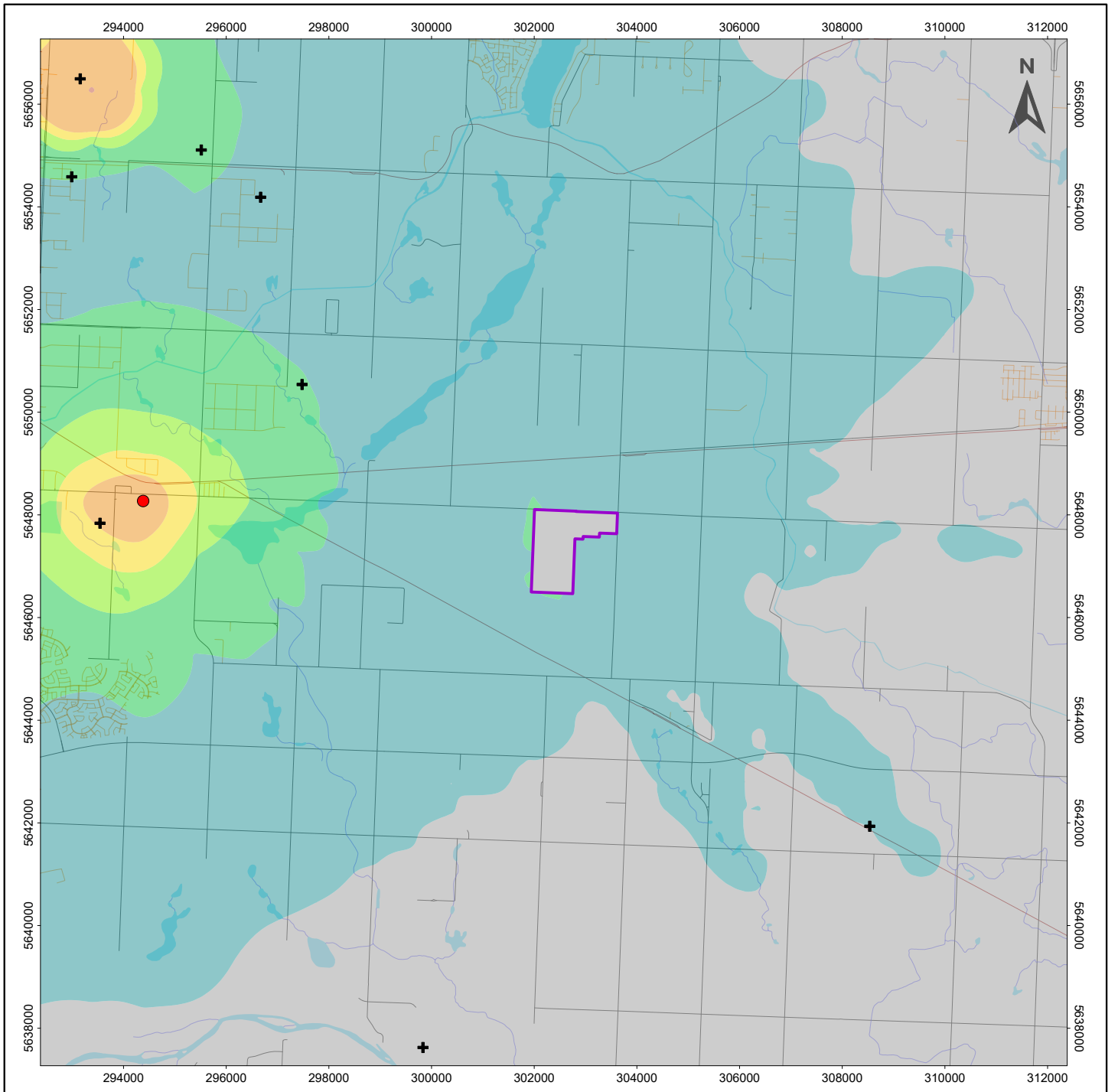
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted Annual NO_2 (ARM2) Concentrations (Application Case)

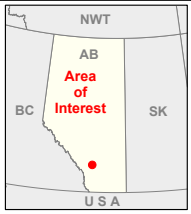
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FIGURE NO.
C.10



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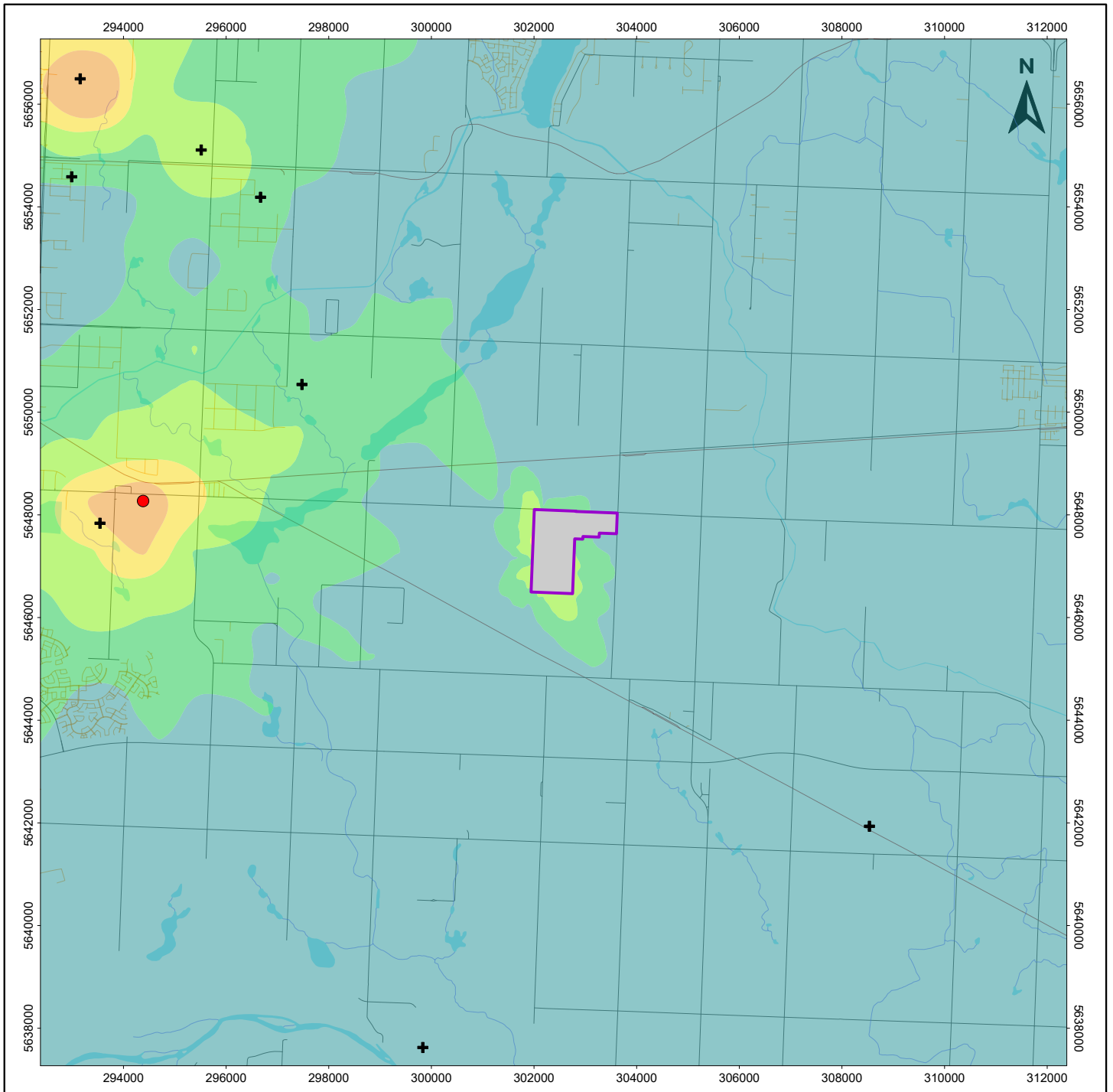
Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted 1-hour $PM_{2.5}$ Concentrations (Application Case)

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FIGURE NO. C.11





Beacon AI Data Centers - Indus Project Air Quality Assessment

Maximum Predicted 24-hour $PM_{2.5}$ Concentrations (Application Case)

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FIGURE NO. C.12

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Appendix C - Noise Impact Assessment

Beacon AI Centers – Indus Project Noise Impact Assessment

Stantec

Prepared for:
Beacon AI Centers

Prepared by:
Stantec Consulting Ltd.

December 19, 2025

Project/File:
145400058

Stantec Consulting Ltd.

Limitations and Sign-off

This document entitled "Beacon AI Centers – Indus Project Noise Impact Assessment" was prepared by Stantec Consulting Ltd. ("Stantec") for the account of Beacon AI Centers (the "Client"). The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

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RM SIGNATURE: <original signed by>
RM APEGA ID #: 113862
DATE: December 19 2025
PERMIT NUMBER: P000258
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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Signature

Sanaz Zabani, M.Sc. INCE.
Printed Name

Executive Summary

Beacon AI Centers (Beacon) is proposing to construct, own and operate an electricity generation facility within a data center campus: Beacon AI Centers – Indus Project (the Project), at Hamlet of Indus, Rocky View County, Alberta. The total electrical site production features a capacity of 1,494 megawatts (MW), providing 1,200 MW of continuous, dispatchable electricity to the four data centers on-site, as well as the provincial power grid. Beacon retained Stantec Consulting Ltd. (Stantec) to conduct a noise impact assessment (NIA) for the Project.

The Project is situated in an industrial-zoned parcel in the quarter sections of NW/SW and NE/SE11-023-28 W4M, at approximately three kilometres (km) east of the City of Calgary, and two km northwest of Hamlet of Indus, Alberta.

The electricity generation facility consists of two complementary power generation systems:

- 100 Jenbacher J624 lean-burn natural gas engines and eight Clearfire CFLC-5000 condensing boilers. Each engine produces a nominal electrical output of 4.6 MW; and
- Siemens high-efficiency combined-cycle gas turbine generation (CCGT) packages, delivered through four Siemens SGT-800 3x1 CCGT blocks. Each generation block comprises three SGT-800 gas turbines (GT), each with a gross capacity of approximately 62 MW; three heat recovery generators (HRSG) units with reheat; and one Siemens SST-500 condensing steam turbine (ST) and generator, with a nominal capacity of approximately 75 MW.

Stantec developed this NIA for the Project in support of its regulatory application to the Alberta Utilities Commission (AUC). The NIA will be conducted in accordance with the requirements in AUC Rule012: Noise Control, September 30, 2024 (AUC Rule 012). The purpose of this NIA is to quantify the Project noise effect at the noise receptors and assess the compliance with the AUC Rule 012 requirements.

The NIA study also includes the noise sources from the on-site equipment associated with artificial intelligence (AI), high-performance computing (HPC), cloud-compute campus, and a substation. The AI HPC campus includes four data center hall buildings.

The NIA local assessment area (LAA) and regional assessment area (RAA) is a 1.5 km and 3 km buffer around the project development area (PDA) boundary, respectively. There are 11 noise receptors (i.e., R1 to R11) within the RAA. Ten receptors (i.e., R1 to R4, R6 to R11) are within the LAA while one receptor (R5) is outside the LAA and within the RAA. R5 is included herein for information purposes. Permissible Sound Levels (PSL) are determined at these receptors.

Project noise effect is quantified for three assessment cases: Baseline Case, Project Case, and Application Case. Baseline Case includes the noise effect from the Ambient Sound Level (ASL) and other existing third-party regulated (i.e., AUC or Alberta Energy Regulator [AER]) energy related facilities. Project Case includes noise effect from the Project only. Application Case assesses the cumulative noise effect including the Baseline Case and the Project Case. Application Case cumulative sound level results are compared to the PSLs to verify compliance with the AUC Rule 012 requirements.

Application Case cumulative sound level at all receptors meets the daytime and nighttime PSLs. Low-frequency noise (LFN) effect analysis is based on methods prescribed in AUC Rule 012 and Health Canada Noise Guidance. LFN effect is not expected at all receptors. The Project requires mitigation measures that are inherent in the designs to achieve compliance with the PSLs of AUC Rule 012.This NIA concludes that the Project complies with the AUC Rule 012 requirements.

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Appendix A Sound Power Levels

Acronyms / Abbreviations

°C	degrees Celsius
ACC	Air-Cooler Condenser
AER	Alberta Energy Regulator
AI	Artificial Intelligence
ANSI	American National Standards Institute
ASL	Ambient Sound Level
AUC	Alberta Utility Commission
Beacon	Beacon AI Centers
BSL	Basic Sound Level
CCGT	combined-cycle gas turbine
dB	decibel
dBA	A-Weighted decibel
dBC	C-Weighted decibel
GSU	Generator step-up transformer
GT	Gas turbine
HPC	high-performance computing
HRSG	Heat recovery steam generator
Hz	hertz
INCE	Institute of Noise Control Engineers of the USA
ISO	International Organization for Standardization
km	kilometre
LAA	local assessment area
L_{eq}	Energy Equivalent Sound Level
LFN	low frequency noise
LSD	Legal subdivision
m	metre
m/s	metres per second
MW	megawatt
NIA	Noise Impact Assessment

PDA	Project development area
the Project	Beacon AI Centers – Indus Project
PSL	Permissible Sound Level
PWL	Sound Power Level re 10^{-12} Watt
R	noise receptor
RAA	regional assessment area
Rule 012	AUC Rule 012: *Noise Control*
SCR	Selective catalytic reduction
SPL	Sound Pressure Level re 20 µPa
ST	Steam turbine
Stantec	Stantec Consulting Ltd.
UTM	Universal Transverse Mercator

Glossary

Term	Definition
Ambient Noise	All noises that exist in an area and are not related to a facility. Ambient noise includes sound from other industrial noise not being measured, transportation sources, animals, and nature. Ambient noise is the same as background sound level.
Ambient Sound Level (ASL)	The ASL consists of all noise in an area that is not related to regulated facilities. This noise includes sound from other non-regulated industrial facilities, transportation sources, animals and nature. The ASL does not include any energy-related industrial component and must be measured without it. The ASL can be measured when the sound level in an area is not felt to be represented by the basic sound levels (BSLs). The ASL must be measured under representative conditions. As with comprehensive sound levels, representative conditions do not constitute absolute worst-case conditions (i.e., the quietest day in this case) but conditions that portray typical conditions for the area.
Background Sound Level (i.e., Baseline)	It includes noise from all sources other than the sound of interest (i.e., sound from other industrial noise not being measured, transportation sources, animals, and nature).
Bands (octave, 1/3 octave)	A series of electronic filters separate sound into discrete frequency bands, making it possible to know how sound energy is distributed as a function of frequency. Each octave band has a centre frequency that is double the centre frequency of the octave band preceding it.
Basic Sound Level (BSL)	The A-weighted Leq sound level commonly observed to occur in the designated land-use categories with industrial presence. The BSL is assumed to be 5 decibel sound pressure level (dBA) above the ASL and is set out in Table 1 of AUC Rule 012.
Category	A classification of a dwelling unit in relation to transportation routes used to arrive at a BSL.

Term	Definition
Class A Adjustment	Consists of the sum of adjustments that account for the seasonal nature of the noise source, absence of both tonal and impulse/impact components, and the actual ASL in an area. It cannot exceed +10 dBA. The Class A adjustment is added to the BSL, the daytime adjustment, and the Class B adjustment to arrive at a permissible sound level.
Class B Adjustment	An adjustment based on the duration of a noisy activity that recognizes that additional noise can be tolerated if it is known that the duration will be limited. An adjustment of B1, B2, B3, or B4 may be selected as applicable.
Comprehensive Sound Level	The sound level that is a composite of different airborne sounds from many sources far away from and near the point of measurement. The Comprehensive Sound Level does include industrial components and must be measured with them, but it should exclude abnormal noise events.
Daytime	The hours from 07:00 to 22:00.
Daytime Adjustment	An adjustment that allows a 10 dBA increase because daytime sound levels are generally about 10 dBA higher than nighttime values.
dB - Decibel	A logarithmic unit associated with sound pressure levels and sound power levels.
dBA - Decibel, A-Weighted	A logarithmic unit where the recorded sound has been filtered using the A frequency weighting scale. A-weighting somewhat mimics the response of the human ear to sounds at different frequencies. A-weighted sound pressure levels are denoted by the suffix ‘A’ (i.e., dBA), and the term pressure is normally omitted from the description (i.e., sound level or noise level).
dBC - Decibel, C-Weighted	The logarithmic units associated with a sound pressure level, where the sound pressure signals has been filtered using a frequency weighting. The C-weighting approximates the sensitivity of human hearing at industrial noise levels (above about 85 dBA). C-weighted sound pressure levels are denoted by the suffix ‘C’ (i.e., dBC). C-weighted levels are often used in low-frequency noise analysis, as the filtering effect is nearly flat at lower frequencies.

Term	Definition
Decibel Addition	In acoustics, due to the logarithmic nature of the decibel scale, the addition of two or more sound pressure levels (denoted as SPL_1, SPL_2 … SPL_n) is done as follows: $SPL_1 + SPL_2 + \ldots SPL_n = 10 \log (10^{(SPL1/10)} + 10^{(SPL2/10)} + \ldots + 10^{(SPLn/10)})$ As an example: 50 dB + 50 dB = 53 dB
Dwelling Unit	Any permanently or seasonally occupied structure used for habitation for the purpose of human rest; including a nursing home or hospital with the exception of an employee or worker residence, dormitory, or construction camp located within an energy-related industrial plant boundary. Trailer parks and campgrounds may qualify as a dwelling if it can be demonstrated that they are in regular and consistent use. In the case of a condominium or apartment complex, each unit is considered a dwelling.
Dwelling Unit (most affected)	The most impacted dwelling(s) are those subject to the highest average weighted sound level relative to the permissible sound level. The nearest dwelling unit may not necessarily be the one most adversely affected because of factors such as topography or man-made features. For example, the nearest dwelling unit to a facility may be located behind an intervening ridge, while a more distant dwelling unit may be in direct line of sight with the facility. Care must be taken in determining the most impacted dwelling unit.
Energy Equivalent Sound Level (L_{eq})	An energy-average sound level taken over a specified period of time. It represents the average sound pressure encountered for the period. The time period is often added as a suffix to the label (e.g., $L_{eq}(24)$ for the 24-hour equivalent sound level). L_{eq} is usually A-weighted. An L_{eq} value expressed in dBA is a good, single value descriptor of the annoyance of noise.
Frequency	Number of cycles per unit of time. In acoustics, frequency is expressed in hertz (Hz) (i.e., cycles per second).

Term	Definition
Frequent Aircraft Flyovers	Used in the assessment of categories as part of a site-specific analysis for dwellings that lie within a contour area with a noise exposure forecast 25 or greater, as designated by Transport Canada. In the absence of any noise exposure forecast contours for local airport, Transport Canada is to be contacted for current air traffic statistics. In this case, to qualify for the BSL adjustment, a dwelling must be within 5 km of an airport that has a minimum of nine aircraft takeoffs or landings over the nighttime period.
Heavily Travelled Road	Generally, includes highways and any other road where the average traffic count is at least 10 vehicles per hour over the nighttime period. It is acknowledged that highways are sometimes lightly travelled during the nighttime period, which is usually the period of greatest concern.
Hertz (Hz)	Unit of measurement of frequency, numerically equal to cycles per second.
Low Frequency Noise (LFN)	Noise in the low frequency range (AUC definition), 20 Hz up to 250 Hz, where a clear tone is present below and including 250 Hz and the difference between the overall C-weighted sound level and the overall A-weighted sound level exceeds 20 dB.
Nighttime	The hours from 22:00 to 07:00.
Noise	Unwanted sound.
Noise Level	Same as Sound Level, except applied to unwanted sounds
Permanent Facility	Any existing or proposed facility that will be at a location longer than two months.
Permissible Sound Level (PSL)	The maximum sound level that a facility should not exceed at a point 15 m from the nearest or most impacted dwelling unit. The PSL is the sum of the BSL, daytime adjustment, Class A adjustment, and Class B adjustment.
Sound	A dynamic (fluctuating) pressure.
Sound Pressure Level (SPL)	The logarithmic ratio of the root mean square sound pressure to the sound pressure at the threshold of hearing. The sound pressure level is defined by equation below, where P is the RMS pressure due to a sound and P_0 is the reference pressure. P_0 is usually taken as 2.0×10^{-5} Pascals. SPL (dB) = $20 \log(P_{RMS}/P_0)$

Term	Definition
Sound Power Level (PWL)	The logarithmic ratio of the instantaneous sound power of a noise source to that of the reference power. The sound power level is defined by equation below where W is the sound power of the source in watts, and Wo is the reference power of 10^{-12} watts. PWL (dB) = 10 log(W/W_0)
Spectrum	The description of a sound wave's resolution into its components of frequency and amplitude.
Tonal Components	Often industrial facilities exhibit tonal components. Examples of tonal components are transformer hum, sirens, and piping noise. The test for the presence of tonal components consists of two parts (as per tonality prescribed in AUC Rule 012). The first part must demonstrate that the sound pressure level of any one of the slow-response, A-weighted, 1/3-octave bands between 20 kHz and 16 kHz is 10 dBA or more than the sound pressure level of at least one of the adjacent bands within two 1/3-octave bandwidths. In addition, there must be a minimum of a 5 dBA drop from the band containing the tone within two bandwidths on the opposite side. The second part is that the tonal component must be a pronounced peak clearly obvious within the spectrum.

1 Introduction

Beacon AI Centers (Beacon) is proposing to construct, own and operate an electricity generation facility within a data center campus: Beacon AI Centers – Indus Project (the Project), at Hamlet of Indus, Rocky View County, Alberta. The total electrical site production features a capacity of 1,494 megawatts (MW), providing 1,200 MW of continuous, dispatchable electricity to the four data centers on-site, as well as provincial power grid. Beacon retained Stantec Consulting Ltd. (Stantec) to conduct a noise impact assessment (NIA) for the Project.

The electricity generation facility consists of two complementary power generation systems:

- 100 Jenbacher J624 lean-burn natural gas engines and eight Clearfire CFLC-5000 condensing boilers. Each engine produces a nominal electrical output of 4.6 MW; and
- Siemens high-efficiency combined-cycle gas turbine generation (CCGT) packages, delivered through four Siemens SGT-800 3x1 CCGT blocks. Each generation block comprises three SGT-800 gas turbines (GT), each with a gross capacity of approximately 62 MW; three heat recovery generators (HRSG) units with reheat; and one Siemens SST-500 condensing steam turbine (ST) and generator, with a nominal capacity of approximately 75 MW.

The NIA study also includes the noise sources from the on-site equipment associated with artificial intelligence (AI), high-performance computing (HPC), cloud-compute campus, and a substation. The AI HPC campus includes four data center hall buildings.

Stantec developed this NIA for the Project in support of its regulatory application to the Alberta Utilities Commission (AUC). The NIA will follow the requirements of AUC Rule 012: Noise Control, September 30, 2024 (AUC Rule 012). The purpose of this NIA is to quantify the noise effect from the Project's design at the noise receptors and assess the compliance with the AUC Rule 012 requirements.

2 Study Area and Receptor

2.1 Study Area

The Project is situated in an industrial-zoned parcel in the quarter sections of NW/SW and NE/SE11-023-28 W4M (the project development area [PDA]), at approximately three kilometres (km) east of the City of Calgary, and two km northwest of Hamlet of Indus, Alberta.

The local assessment area (LAA) is defined by a 1.5 km buffer area from the PDA boundary. This LAA boundary also represents the AUC 1.5 km criteria boundary.

The regional assessment area (RAA) is defined as the area which may be affected by environmental noise emissions from the Project. The RAA will extend 3 km from the PDA to encompass noise effect from the Project as well as other AUC and Alberta Energy Regulator (AER)-regulated facilities.

2.2 Noise Receptor

The AUC Rule 012 prescribes Permissible Sound Level (PSL) for noise receptors. A noise receptor is defined by Rule 012 as any dwelling located within 1.5 km of the facility boundary; if there are no dwellings within 1.5 km, a noise receptor is any point at 1.5 km from the facility boundary.

Total of 11 noise receptors (i.e., R1 through R11) are selected in the NIA. Ten noise receptors (i.e., R1 to R4, R6 to R11) are identified within the 1.5 km LAA boundary, and one receptor (i.e., R5) is outside the LAA and inside the RAA. R5 is included herein for information purposes. The receptor ID, locations associated with the receptor heights, direction and distance to the PDA are presented in Table 1. Figure 1 shows the PDA, RAA, and LAA for the Project, and the receptor locations.

Table 1 Noise Receptor Location

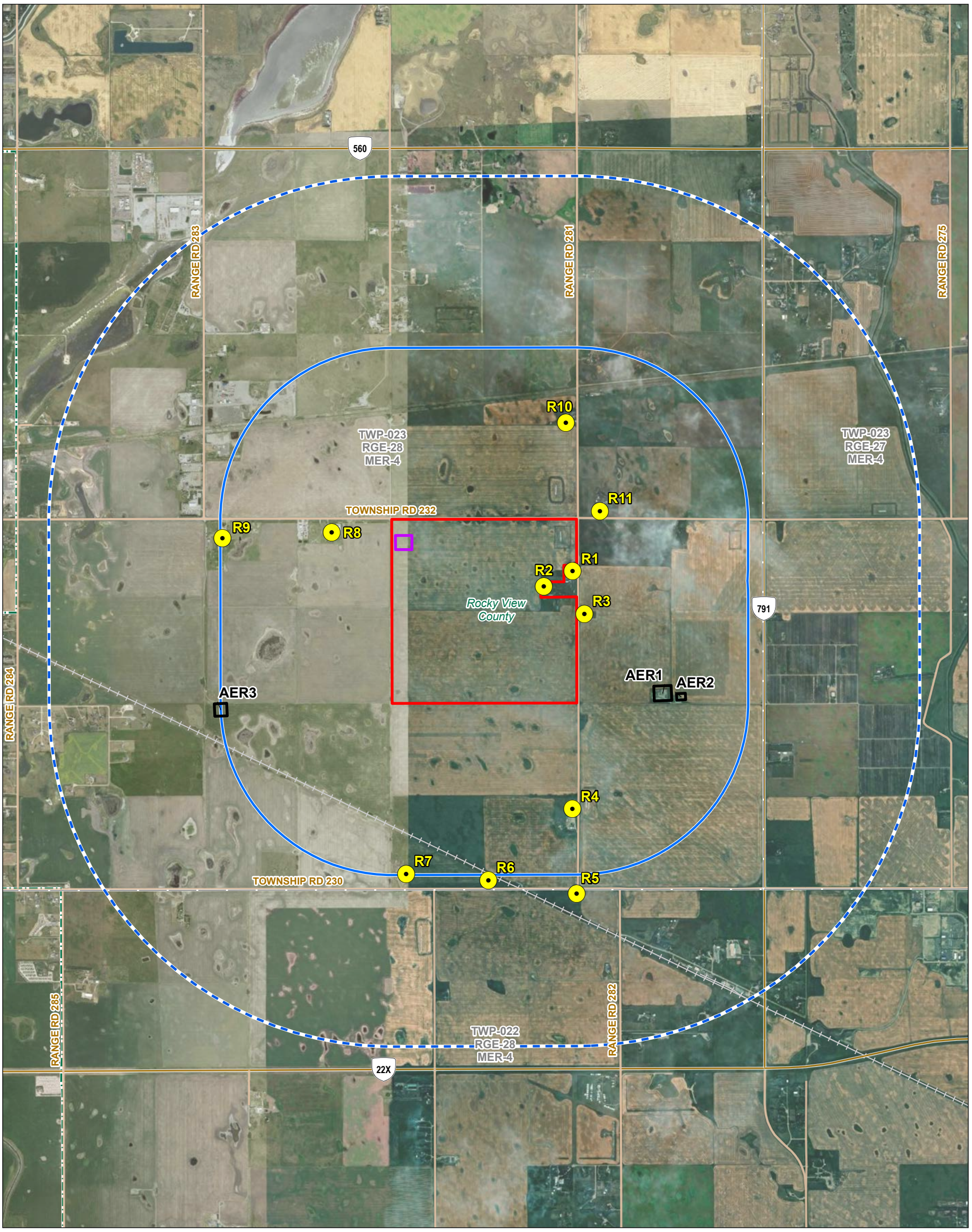
Receptor ID	No. of Dwelling Storey	Receptor Height (m)	UTM Coordinates[a] (m)		Approximate Distance and Direction from PDA
			Easting	Northing	
R1	2	4.5	303570	5647586	35 m Southeast
R2	2	4.5	303313	5647464	30 m East
R3	2	4.5	303658	5647207	55 m East
R4	1	1.5	303483	5645512	900 m Southeast
R5[b]	1	1.5	303491	5644768	1,660 m Southeast
R6	2	4.5	302724	5644916	1,500 m South
R7	1	1.5	302008	5645000	1,420 m South
R8	1	1.5	301478	5648010	500 m Northwest
R9	1	1.5	300522	5648000	1,460 m Northwest
R10	1	1.5	303564	5648886	840 m Northeast
R11	2	4.5	303830	5648100	240 m Northeast

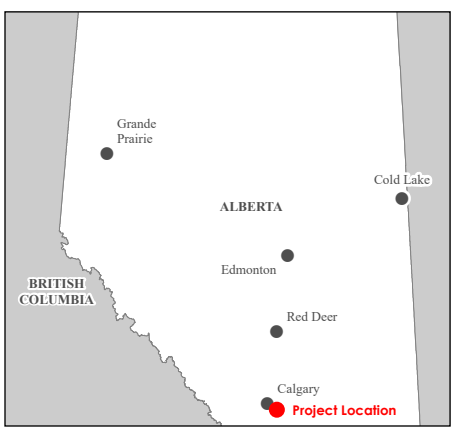
Notes:

[a] UTM Zone 12U NAD 83

[b] Receptor is located outside 1.5 km LAA boundary, for information only

m = metre; UTM = Universal Transverse Mercator





Receptor
Project Development Area
Local Assessment Area (1.5km)
Regional Assessment Area (3km)
Substation
Third Party Facility
Railway
Road

0 1 2
kilometres

(At original document size of 11x17) 1:35,000

N

Stantec

Notes
1. Coordinate System: NAD 1983 3TM 114
2. Data Sources: Base - Governments of Canada and Alberta; Thematic - Kineticor
3. Imagery: Southern Alberta Partners, Vantor

Project Location — Prepared by NF on 2025-12-15
NW ¼, NE ¼ and SW ¼ 11-023-28 W4M, Alberta

Project — 145400058

Beacon AI Centers – Indus Project

Figure No.
1

Title

Study Area and Receptor Locations

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3 Regulatory Framework

AUC Rule 012 provides noise limits associated with energy-related facilities. In this assessment, noise limits are applied in accordance with AUC Rule 012.

3.1 Permissible Sound Level (PSL)

In accordance with AUC Rule 012, all regulated facilities must meet the daytime (07:00 to 22:00) and nighttime (22:00 to 07:00) PSL at a distance of 1.5 km (1.5 km criteria boundary) from the facility boundary or at the nearest residential dwelling, whichever is closer. Only structures that are permanently or seasonally occupied for habitation for the purpose of human rest are defined as dwellings. Exceptions to this definition include any employee or worker residence, dormitory, or construction camp located within an industrial energy-related plant boundary. A noise receptor is defined by AUC Rule 012 as any dwelling located within 1.5 km of the facility boundary. If there are no dwellings within 1.5 km, a noise receptor is any point at 1.5 km from the facility boundary.

The determination of the daytime and nighttime PSLs at a receptor is based on the population density and proximity to transportation (i.e., proximity to heavily travelled roadways, rail lines, or frequent aircraft flyovers). AUC Rule 012 defines the Ambient Sound Level (ASL) as the sound level that is a composite of different airborne sounds from many sources far away from and near the point of measurement. The AUC Rule 012 advises that the average rural ASL is 5 decibels (dB) below the Basic Sound Level (BSL) of 50 decibel sound pressure level (dBA) and 40 dBA; therefore, the ASL of 45 dBA Energy Equivalent Sound Level (L_{eq}) and 35 dBA are assumed for rural receptor with no adjustment for dwelling density or proximity to transportation. Using a similar approach, the ASL for the receptor of the Project with dwelling density or proximity to transportation adjustments are assumed to be 5 dB less than the BSLs. The PSL is the sum of BSL, daytime adjustment, Class A adjustment, and Class B adjustment. No Class A and Class B adjustments are applicable at the receptors for the Project. The daytime PSL is set at 10 dB above the nighttime value.

For the Project, ten receptors (i.e., R1 to R4, R6 to R11) are located within the 1.5 km LAA boundary. Receptor R5 is located outside the LAA, but within the RAA; and is included for information purposes. R5, R6 and R7 are close to the rail line, which connects Canadian Pacific Railway's CPKC Calgary Intermodal Terminal with extensive 24/7 operations. These receptors are classified as "Category 2" because they are located more than 30 m but less than 500 m from the rail line.

Noise receptors, the population density, transportation category, PSL, and ASL values for the receptors are summarized in Table 2.

Table 2 Permissible Sound Level and Ambient Sound Level

Receptor ID	Dwelling Unit Density per Quarter Section[a] of Land	Proximity to Transportation (Category)[b]	Ambient Sound Level[c] (dBA)		Permissible Sound Levels (dBA)	
			Daytime	Nighttime	Daytime	Nighttime
R1	1 to 8	1	45	35	50	40
R2	1 to 8	1	45	35	50	40
R3	1 to 8	1	45	35	50	40
R4	1 to 8	1	45	35	50	40
R5[d]	1 to 8	2	50	40	55	45
R6	1 to 8	2	50	40	55	45
R7	1 to 8	2	50	40	55	45
R8	1 to 8	1	45	35	50	40
R9	1 to 8	1	45	35	50	40
R10	1 to 8	1	45	35	50	40
R11	1 to 8	1	45	35	50	40

Notes:

[a] Refers to a quarter section or a 451 m radius, with the most likely affected receptors at the centre. For quarter sections with various land uses or with mixed densities, the density chosen must be factored for the area under consideration on a prorated basis

[b] Definition of transportation proximity category as follows:
Category 1—receptor units more than 500 m from heavily travelled roads and rail lines and not subject to frequent aircraft flyovers
Category 2—receptor units more than 30 m but less than 500 m from heavily travelled roads and rail lines and not subject to frequent aircraft flyovers
Category 3—receptor units less than 30 m from heavily travelled roads and rail lines and/or subject to frequent aircraft flyovers

[c] ASL is 5 dB below the BSL prescribed in the AUC Rule 012; daytime BSL is 10 dB higher than nighttime value

[d] Receptor is located outside 1.5 km LAA boundary, for information only

dBA = decibel, A-weighted

3.2 Low Frequency Noise

As part of the NIA requirements in AUC Rule 012, the potential for low-frequency noise (LFN) effect from a project should be considered. LFN is defined as a receptor where a clear tone is present at a frequency between 20 hertz (Hz) and 250 Hz and the difference between the overall C-weighted sound level and the overall A-weighted sound level is equal to or greater than 20 dB. The presence of both conditions at a receptor indicates the potential for LFN concerns.

4 Methodology

4.1 Environmental Noise Descriptors

Environmental noise typically varies over time. To account for this variation, a single number descriptor (L_{eq}) is used. It is defined as the steady, continuous sound level over the specified time that has the same acoustic energy as the actual varying sound levels over the same time. The unit for L_{eq} is the dBA, which reflects the response of the human ear to different sound frequencies. Time periods commonly used for L_{eq} measurements and regulatory criteria are daytime (07:00 to 22:00) and nighttime (22:00 to 07:00). The daytime L_{eq} is the 15-hour A-weighted L_{eq}. Similarly, the nighttime L_{eq} is a 9-hour A-weighted L_{eq}.

For a summary of acronyms and additional details on commonly used noise terminology, refer to the Glossary.

4.2 Assessment Approach

The NIA assessment considered three cases as follows:

- Baseline Case: includes the noise effect from the ASL and other existing third-party energy regulated facilities. A baseline field program was conducted to quantify the noise effect from the third-party facilities within the RAA;
- Project Case: includes noise effect from the Project only; and
- Application Case: assesses cumulative noise effect, including the contribution from the Baseline Case and the Project Case. The Application Case cumulative sound level results are compared to the PSLs to verify compliance with the AUC Rule 012 requirements.

The approach used to assess the Project noise effect within the LAA boundary during normal operations of the Project is summarized as follows:

1. Determine ASLs and PSLs for selected noise receptors within the LAA and RAA;
2. Conduct a baseline field program to quantify the noise effect from the existing third-party regulated facilities within the RAA;
3. Determine the Baseline Case sound levels. The prescribed ASL and the noise measurement results from the baseline field program will be incorporated in the determination for the Baseline Case sound levels at the noise receptors;
4. Predict the Project Case sound levels representing the noise effect from the Project only;
5. Determine the Application Case cumulative sound levels; and
6. Assess compliance with the AUC Rule 012 requirements by comparing the Application Case cumulative sound levels at the noise receptors to the PSLs.

4.3 Noise Modelling

Noise predictions were conducted using Cadna/A acoustic modeling software (DataKustik 2025), which utilizes the internationally accepted sound propagation algorithms (ISO 9613-1: 1993, ISO 9613-2: 2024). The modelling parameters used in the assessment are summarized in Table 3.

Table 3 Acoustic Modelling Parameters

Item	Model Parameters	Model Setting
1	Temperature	10°C
2	Relative humidity	70%
3	Wind speed	Downwind condition, as per ISO 9613-2 standard downwind setting (wind speed of 1 m/s to 5 m/s)
4	Noise propagation model	CadnaA (DataKustik 2025)
5	Standard	ISO 9613 (2024)
6	Ground conditions and attenuation factor	Ground absorption (G) of 0.7 (surrounding area); 0.25 (PDA area); and 0 (water area)
7	Terrain Parameters (terrain resolution)	Ground terrain incorporated at 50 m by 50 m resolution.
9	Reflection parameters	1 order of reflection

Notes:
°C = degrees Celsius; m = metre; m/s = metres per second

Meteorological factors, such as temperature, humidity, and wind speed and direction, affect sound propagation. Effects of wind and atmospheric stability on outdoor sound propagation during various weather conditions can cause large variations in Project-related sound levels when measured at a receptor location. Upwind sound propagation, or propagation during unstable atmospheric conditions, typically results in lower receptor levels, while downwind conditions and stable atmosphere tend to increase receptor levels. The wind speed is based on ISO 9613-2 standard, which assumes 1 metre per second (m/s) to 5 m/s downwind condition from the source to the receptor in the sound propagation calculation.

The Project is set in an area with dense vegetation and loose soil. Correspondingly, the ground absorption constant G was set to 0.7 (soft, absorptive ground) outside of the PDA boundary, 0.25 (relatively hard, gravel) within the PDA boundary, and 0 (fully reflective) for the storm water retention area.

Building structures were included in the model to account for the reflective effects and barrier effects of buildings. One order of reflection is also incorporated in the model.

4.4 Baseline Field Program

A baseline field program was conducted for the existing third-party regulated facilities within the RAA by an acoustic specialist in November 2025. Short-term measurements (i.e., duration between 1 to 3 minutes) were taken at short distances away (e.g., between 5 m to 10 m) from the operating equipment within the third-party facilities. The purpose of the program is to quantify the noise effect from the third-party facilities within the RAA on the receptors in the Baseline Case.

Three third-party regulated facilities were identified via AER and AUC database and field observations. AER #1 is a battery site operated by HESC Energy; AER #2 is a compressor station operated by Ember Resources; and AER #3 consists of above ground pipelines/metering station own by Lexin Resources. Table 4 summaries these facilities with operator, location, type of facility, direction and distance to the PDA. Sound power levels (PWL) of these facilities were calculated based on the measurement data and summarized in Section 5.1.

Table 4 Information of Third-Party Facilities

Facility ID	Operator	LSD	Type of Facility	Approximate Distance and Direction from PDA Boundary
AER #1	HESC Energy	03-12-023-28 W4M	Battery Site	630 m Southeast
AER #2	Ember Resources	02-12-023-28 W4M	Compressor Station	850 m Southeast
AER #3	Lexin Resources	04-10-023-28 W4M	Pipeline/Metering	1,510 m Southwest

Notes:
[a] UTM Zone 12U NAD 83
m = metre; LSD = Legal Subdivision

The measurement methods were based on the guidance from the American National Standards Institute (ANSI) S12.36 (ANSI 1990). Equivalent sound pressure levels (L_{eq}) in one-third octave band center frequencies were collected. As the facility equipment operations were continuous and steady (i.e., did not vary over time), short-term measurements were sufficient to characterize the noise emissions.

The sound level meter used during the field visit was a Brüel and Kjaer 2250 (B&K 2250) Type 1 sound level meter. The sound level meter was laboratory calibrated within the last 24 months. A portable Brüel and Kjaer field calibrator (B&K 4231) was used to calibrate the sound level meter immediately before and after each measurement series and after any change in equipment condition (e.g., cable or battery replacement). The calibrator was laboratory calibrated within the last 12 months. Laboratory calibration certificates for the sound level meter, calibrator, and detailed field calibration records are available upon request.

5 Baseline Case

The Baseline Case sound levels are the combined sound levels of the ASL and the predicted noise effect from the third-party facilities within the Project RAA.

5.1 Results of Baseline Field Program

Sound power levels of three third-party facilities, i.e., AER #1, AER #2 and AER #3, were calculated based on the field measurement data and summarized in Table 5. Sound power levels in octave band center frequencies are presented in Appendix A. These sound power levels were input into the noise modelling to predict the noise effect from these facilities on the receptors.

Table 5 Sound Power Levels of Third-Party Facilities

Facility ID	Sound Power Level (dBA)
AER #1	85.8
AER #2	87.0
AER #3	62.3

Note:
dBA = decibel, A-Weighted

5.2 Baseline Case Results

The Baseline Case sound levels are the combined sound levels of the ASL and the predicted noise effect from the third-party facilities. Table 6 summarizes the results at the receptors. The results show that Baseline Case sound levels at the receptors are below the PSLs.

Table 6 Baseline Case Results

Receptor ID	Ambient Sound Level (dBA)[a]		Third-Party Facility Results (dBA)		Baseline Case Sound Level[b] (dBA)		PSL (dBA)	
	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime
R1	45	35	10.6	10.6	45.0	35.0	50	40
R2	45	35	10.0	10.0	45.0	35.0	50	40
R3	45	35	14.1	14.1	45.0	35.0	50	40
R4	45	35	10.2	10.2	45.0	35.0	50	40
R5	50	40	5.4	5.4	50.0	40.0	55	45
R6	50	40	3.3	3.3	50.0	40.0	55	45
R7	50	40	0.7	0.7	50.0	40.0	55	45
R8	45	35	0.0	0.0	45.0	35.0	50	40
R9	45	35	0.0	0.0	45.0	35.0	50	40
R10	45	35	1.7	1.7	45.0	35.0	50	40
R11	45	35	7.9	7.9	45.0	35.0	50	40

Notes:

[a] Ambient Sound Level (ASL) values from Table 2

[b] Logarithmic additions of ASL and Third-party facility results

dBA = decibel, A-Weighted

6 Project Case

The Project Case considers noise effect from the continuous normal operation of the Project.
The following sections discuss noise emission assessment and mitigation requirements for operation phase as required by AUC Rule 012.

6.1 Noise Emission Sources

The Project Case considers noise from the continuous operation of the Project sources only. The Project noise sources include the power generation facility, AI HPC campus, and substation. The following sections present the noise emission sources and modelling results for the Project Case.

The Project electricity generation facility consists of two power generation systems: two QPAC generation pods, and four Siemens SGT-800 3x1 CCGT blocks.

Two QPAC generation pods consist of 100 Jenbacher J624 lean-burn natural gas engines. Jenbacher's QPAC is a modular power generation platform which consists of five subunits each housing a Jenbacher J624 gas genset and supporting equipment. Each subunit includes the genset module, engine exhaust system equipped with Selective Catalytic Reduction (SCR) and exhaust silencer, genset module ventilation exhaust outlet, radiator and air filtration module, and other auxiliary modules. In accordance with the manufacturer's specifications, each QPAC noise emission will achieve 65 dBA measured at 10 m from the modular. Each generation pod contains ten QPAC modulars.

There are total of four Siemens SGT-800 3x1 CCGT blocks on site, each comprising three SGT-800 GTs, three HRSGs, and one SST-500 ST generator unit. Major Siemens equipment such as the GTs, HRSGs, and ST generators, boiler feed water pumps (BFWP), auxiliary boilers and water treatment units will be housed inside four generation buildings. Other equipment such as the GT air intake filters, HRSG stacks, air-cooled condenser (ACC) units, steam ducts, generator step-up (GSU) transformers will be located outdoors. A substation is located on the northern section of the PDA and will serve the Project.

The AI HPC campus consists of four data center hall buildings housing AI HPC processing equipment, and each data hall also encloses two Clearfire CFLC-5000 condensing boilers with outdoor boiler exhaust outlets. Each data hall is equipped with 196 outdoor air-cooled chiller units with 96 associated pump enclosures and water tanks.

The Project was modelled using the following major pieces equipment and their associated ancillary systems:

- 20 QPAC power modular units, consisting of:
    - 100 genset engine exhaust outlets;
    - 100 genset module ventilation outlets;

  - 20 QPAC modular roofs; and
  - 20 QPAC modular side sources including genset enclosure breakout, radiator and air filtration module.
- Siemens SGT-800 3x1 CCGT blocks, consisting of:
  - Four generation buildings, each housing 3 x SGT-800 GT units, 3 x HRSG units, 1 x ST and generator unit, and auxiliary equipment, including auxiliary boiler, BFWP packages; and generation building ventilation system with 22 inlets and 22 outlets;
  - 12 HRSG stack outlets;
  - 12 GT air intake filters;
  - Four ACC units and steam ducts; and
  - 16 generator step-up (GSU) transformers.
- AI HPC campus, consisting of:
  - Four data hall buildings housing AI HPC processing equipment;
  - each data hall, including 2 condensing boilers; the boiler exhaust outlets are located outdoor;
  - each data hall consisting of 196 air-cooled chiller units; total of 784 air-cooled chiller units; and
  - each data hall consisting of 96 pump enclosures; total of 384 pump enclosures.
- Substation.

The sound power levels for operating equipment sources were determined based on manufacturers provided information, and Stantec noise database for similar equipment. Noise mitigation measures are incorporated in the modeling to meet the AUC Rule 012 requirements. Details of mitigation measures are described in Section 8.

The following sections present the indoor and outdoor noise sources included in the noise model.

6.1.1 Indoor Noise Sources

Indoor noise-emitting equipment associated with the Project and corresponding sound power levels with mitigation are summarized in Table 7. Sound power levels in octave band center frequencies are presented in Appendix A.

Table 7 Indoor Noise Source Sound Power Levels

Building	Noise Source	Quantity [a]	Sound Power Level (dBA) [b]	Reference [c]
Siemens Generation Building (4x), includes GT, HRSG and ST	Gas Turbine Enclosure	3	106	1
	GT Exhaust Diffuser	3	100	1
	GT Lube Oil Package	3	93	1
	GT Generator Skid	3	105	1
	GT Cooling Inlet	3	105	1
	GT Cooling Outlet	3	95	1
	GT Inlet Filter Duct	3	98	2
	Oil Mist Outlet	3	87	1
	Steam Turbine	1	109	2
	Steam Turbine Generator	1	109	2
	ST Lube Oil Cooler	1	101	2
	HRSG Transition Duct	3	100	2
	HRSG Body	3	98	2
	HRSG Stack Casing	3	96	2
	Pumps including Boiler Feed Water Pumps	3	105	2
	Auxiliary Boiler	1	92	2
	Water Treatment Unit	1	92	2

Notes:

[a] Quantity per building, there are total of four Siemens generation buildings on-site

[b] Sound Power level per unit or individual piece of equipment

[c] 1 – Sound power level based on manufacturer provided noise specification
2 – Representative value based on similar equipment

dBA = decibel, A-Weighted

6.1.2 Outdoor Noise Sources

Outdoor noise-emitting equipment associated with the Project, and corresponding sound power levels with mitigation are summarized in Table 8. Sound power levels in octave band center frequencies are presented in Appendix A.



Table 8 Outdoor Noise Source Sound Power Levels

Noise Source	Quantity	Sound Power Level (dBA)[a]	Reference [b]
QPAC Power Modular			
QPAC Genset Exhaust Outlet (with 90-degree directivity)	100	85	1
QPAC Genset Ventilation Exhaust Outlet (with 90-degree directivity)	100	85	1
QPAC Modular Roof	20	87	1
QPAC Modular Side Source	20	91	1
Siemens SGT-800 3x1 CCGT Configuration			
HRSG Stack Exit (with 90-degree directivity)	12	91	2
GT Combustion Air Inlet Filter House	12	88	2
GT Enclosure Ventilation Outlet	12	84	2
GT Enclosure Ventilation Inlet	12	86	2
ACC Steam Duct	4	95	3
ACC Inlet	4	89	3
ACC Outlet	4	88	3
GSU Transformer	16	92	3
Generation Building Roofs	4	84	4
Generation Building Walls	4	84	4
Generation Building Ventilation Outlet	88	79	4
Generation Building Ventilation Inlet	88	79	4
AI HPC Data Hall and Substation			
Air-Cooled Chiller Outlet	784	79	2
Air-Cooled Chiller Inlet	784	83	2
Pump Enclosure	384	80	3
CFLC-5000 Condensing Boiler Outlet with 90-degree Directivity	8	80	3
Data Hall Building Envelope	4	77	4
Substation	1	93	3

Notes:

[a] Sound Power level per unit or individual piece of equipment

[b] 1 – Sound power level is derived based on manufacturer provided data (i.e., each QPAC meets 65 dBA at 10 m), then applied mitigation measures to meet 60 dBA at 10 m

2 – Sound power level is based on manufacturer provided noise specification, then applied mitigation measures

3 – Representative value based on similar equipment

4 – Calculated value based on acoustic method (Bies & Hansen)

dBA = decibel, A-Weighted

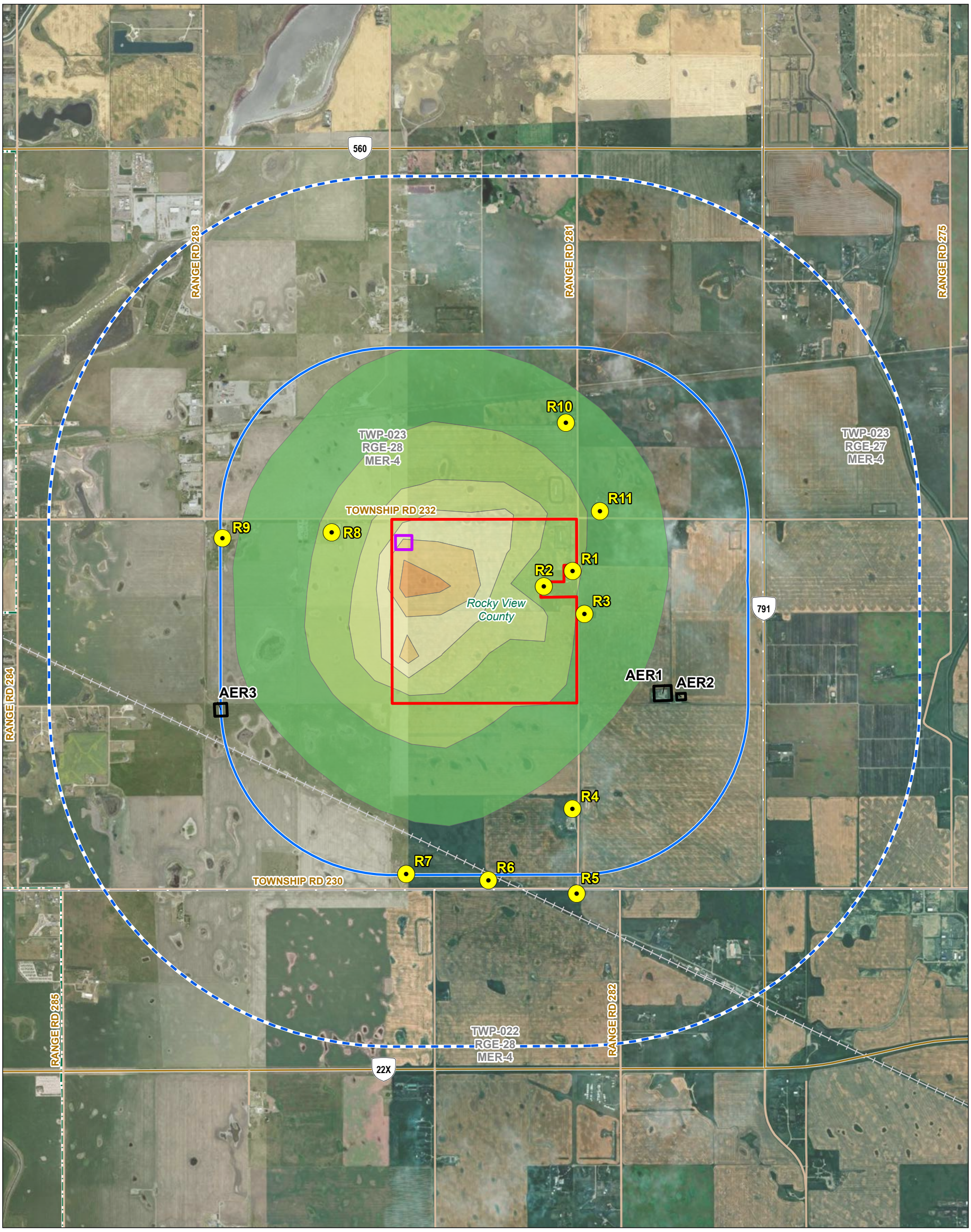
6.2 Project Case Results

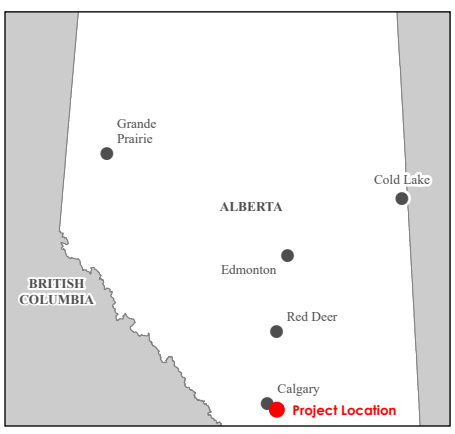
Table 9 summarizes the predicted Project Case sound levels at the receptors. Figure 2 presents the Project Case noise contours within the RAA. The model assumes all operation equipment run continuously during both the daytime and nighttime periods. Therefore, prediction results are the same for both periods.

Table 9 Project Case Sound Levels

Receptor ID	Project Case Sound Level (dBA)	
	Daytime	Nighttime
R1	37.4	37.4
R2	38.8	38.8
R3	36.0	36.0
R4	28.2	28.2
R5	25.2	25.2
R6	28.8	28.8
R7	27.2	27.2
R8	36.2	36.2
R9	29.4	29.4
R10	32.0	32.0
R11	35.6	35.6

Note:
dBA = decibel, A-Weighted





Notes
1. Coordinate System: NAD 1983 3TM 114
2. Data Sources: Base - Governments of Canada and Alberta; Thematic - Beacon
3. Imagery: Southern Alberta Partners, Earthstar Geographics

Noise Level (dBA)

- 30 to 35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- Receptor
- Project Development Area
- Local Assessment Area (1.5km)
- Regional Assessment Area (3km)
- Substation
- Third Party Facility
- Railway
- Road

0 1 2
kilometres

(At original document size of 11x17) 1:35,000

N

Stantec

Project Location — Prepared by NF on 2025-12-15
NW ¼, NE ¼ and SW ¼ 11-023-28 W4M, Alberta

Project — 145400058

Beacon AI Centers – Indus Project

Figure No.
2

Title

Project Noise Contours

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6.3 Low Frequency Noise Analysis

AUC Rule 012 assesses LFN by the presence of a clear tone between 20 Hz and 250 Hz, and where the difference between the overall C-weighted sound level and the overall A-weighted sound level is equal to, or greater than 20 dB. The presence of both conditions at a receptor indicates the potential for LFN concerns. The ASL and third-party facility noise contributions are not included in the LFN analysis.

A presence of tones below 250 Hz are commonly identified from post-construction field noise measurements rather than during the design stage because equipment noise emission data in one-third octave bands (needed for identifying tones) is typically not available from the manufacturers. Sound generated by modern power plants does not generally have low frequency tonal components unless there is a deficiency in the aerodynamic design of some component equipment.

Table 10 presents the predicted A-weighted and C-weighted sound levels at the receptors. Results in Table 10 show that the dBC minus dBA values are below 20 dB at R1, R2, R3, and R11; however, above 20 dB at R4, R5, R6, R7, R8, R9 and R10.

Table 10 Low Frequency Noise Analysis

Receptor ID	Predicted Daytime and Nighttime Project Only Sound Level		dBC minus dBA (dB)	Equal to or Greater than 20 dB?
	dBA	dBC		
R1	37.4	55.6	18.2	No
R2	38.8	56.9	18.1	No
R3	36.0	54.7	18.7	No
R4	28.2	50.9	22.7	Yes
R5	25.2	48.9	23.7	Yes
R6	28.8	50.2	21.4	Yes
R7	27.2	50.3	23.1	Yes
R8	36.2	57.2	21.0	Yes
R9	29.4	52.3	22.9	Yes
R10	32.0	52.8	20.8	Yes
R11	35.6	53.9	18.3	No

Notes:

dB = decibel; dBA = decibel, A-Weighted; dBC = decibel, C-weighted

Health Canada's Guidance for Evaluating Human Health Effects in Impact Assessment: NOISE (Health Canada Noise Guidance) also recommends using ANSI 2005 standard to assess the LFN effect. ANSI 2005 indicates that the sum of the sound levels in the 16 Hz, 31.5 Hz and 63 Hz octave bands be less than 70 dB.

Table 11 presents the predicted sound levels at the 16 Hz, 31.5 Hz and 63 Hz frequency bands at the receptors R4 through R10. The sound level at the 16 Hz band is assumed to be the same as at the 31.5 Hz band because most manufacturers can only provide noise information from 31.5 Hz and higher. The logarithmic sum of sound levels in the 16 Hz, 31.5 Hz, and 63 Hz band is compared to the Health Canada Noise Guidance threshold of 70 dB. The results indicate that the sums of sound levels in the 16 Hz, 31.5 Hz, and 63 Hz bands at R4 through R10 are all below 70 dB.

Table 11 Low Frequency Noise Analysis (Health Canada Noise Guidance)

Receptor ID	Predicted Daytime and Nighttime Project Only Sound Level (dB)			Sum (dB) of 16 Hz, 31.5 Hz and 63 Hz[a]
	16 Hz	31.5 Hz	63 Hz	
R4	51.9	51.9	46.5	55.5
R5	49.9	49.9	44.5	53.5
R6	51.1	51.1	45.8	54.7
R7	51.3	51.3	45.7	54.9
R8	58.4	58.4	52.5	61.9
R9	53.6	53.6	47.6	57.1
R10	53.6	53.6	48.3	57.2

Notes:

[a] Logarithmic addition of 16 Hz, 31.5 Hz and 63 Hz

dB = decibel; Hz = Hertz

Therefore, based on the LFN requirements of AUC Rule 012 and in conjunction with Health Canada Noise Guidance, this assessment concludes that LFN effect at all receptors is not expected.

7 Application Case

The Application Case determines the cumulative sound levels by combining the Baseline Case (i.e., ASL and third-party facility results) and Project Case sound levels together. These results are compared to the PSLs to verify the Project's status of compliance.

Table 12 summarizes the cumulative sound levels of Project at the receptors. The results indicate the cumulative sound levels meet the PSLs at all receptors. Therefore, the Project complies with the AUC Rule 012 requirements.

Table 12 Application Case Results

Receptor	Project Case Sound Level (dBA)		Baseline Case Sound Level (dBA)		Cumulative Sound Level [a] (dBA)		Permissible Sound Level (dBA)		Meet PSLs?
	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime	
R1	37.4	37.4	45.0	35.0	46	39	50	40	Yes
R2	38.8	38.8	45.0	35.0	46	40	50	40	Yes
R3	36.0	36.0	45.0	35.0	46	39	50	40	Yes
R4	28.2	28.2	45.0	35.0	45	36	50	40	Yes
R5	25.2	25.2	50.0	40.0	50	40	55	45	Yes
R6	28.8	28.8	50.0	40.0	50	40	55	45	Yes
R7	27.2	27.2	50.0	40.0	50	40	55	45	Yes
R8	36.2	36.2	45.0	35.0	46	39	50	40	Yes
R9	29.4	29.4	45.0	35.0	45	36	50	40	Yes
R10	32.0	32.0	45.0	35.0	45	37	50	40	Yes
R11	35.6	35.6	45.0	35.0	45	38	50	40	Yes

Notes:

[a] Logarithmic addition of Project Case and Baseline Case; the values are rounded to the nearest whole number before comparison to PSL according to AUC Rule 012

dBA = decibel, A-Weighted

8 Mitigation Measures

The Project requires mitigation measures that are inherent in the designs to achieve compliance with the PSLs of AUC Rule 012. Mitigation measures will be implemented during Project design. The assessment results presented in the previous sections include the application of mitigation measures. Mitigation measures for Project Case components are summarized as follows:

- Implementation of mitigation measures for the QPAC modulars to achieve 60 dBA at 10 m for each modular. This may be achieved in conjunction with the manufacturer supply modifications, or implementation of additional mitigation measures for the original QPAC modulars, including additional genset exhaust silencers, genset ventilation exhaust silencers, acoustic louvers for radiator and air filtration module, and enhanced modular roof system;
- Installation of additional silencers for HRSG stack outlets;
- Installation of additional silencers for Siemens GT air intake filter houses;
- Utilization of low-noise ACC units, or installation of silencers for ACC inlets and outlets to meet specified acoustic performance of ACC in Table 8 and Table A.1;
- Installation of silencers for the generation building ventilation inlets and outlets;
- Installation of acoustic barriers on the east side of GSU transformers;
- Installation of silencers for the air-cooled chiller outlets;
- Installation of acoustic louvers for the air-cooled chiller inlets; and
- Installation of acoustic barriers on the east and south sides of four data halls.

9 Assumptions

The following assumptions or conditions were included in the assessment:

- Plot plan and equipment layout are based on the information and drawings provided for current design (i.e., Site Plan, Drawing No. -A-100 (1), Rev2, 2025.12.05);
- The Project needs to provide 1,200 MW power from two QPAC generation pods and four Siemens SGT-800 3x1 CCGT blocks during normal operation. Noise modelling has been completed based upon more conservative assumption that all 100 gensets in two QPAC generation pods, and all four Siemens SGT-800 3x1 CCGT blocks will operate continuously at the maximum rated capacity, i.e., the power facility will produce 1,494 MW power output during normal operation;
- All doors of the generation buildings are closed during operation;
- All equipment is continuously operating at 100% capacity;
- The Siemens generation buildings are built with pre-engineered wall and roof panel configurations to achieve sound transmission class rating of 45 or higher;
- The data center buildings are built with pre-engineered wall and roof panel configurations to achieve sound transmission class rating of 45 or higher;
- The acoustic performance of the Project equipment components after implementation of mitigation measures will meet the values specified in Table 7, Table 8, and Table A.1; and
- The total sound power level of the substation will not exceed 93 dBA. A separate NIA for the substation will be conducted associated with its AUC application.

10 Conclusion

Noise effect from the Project was assessed at 11 receptors R1 through R11. The PSLs for the receptors were determined according to the AUC Rule 012 requirements. Baseline Case sound levels at the receptors were determined using the prescribed ASL and existing third-party facilities noise effect based on the baseline field program. Noise model was compiled using manufacturers data, owner's engineering specifications and drawings, representative noise emission levels from similar equipment, and acoustic calculations. Cumulative sound levels of the Application Case were predicted and compared with the PSLs.

The modeling results indicate that the predicted cumulative sound levels of the Application Case meet the daytime and nighttime PSLs at all receptors. Also, based on AUC Rule 012 prescribed approach and Health Canada Noise Guidance, low frequency noise effect is not expected at all receptors. This NIA concludes that the Project complies with the AUC Rule 012 requirements.

11 Acoustic Practitioners Information

Table 13 Practitioners Information

Name	Yong Ma, P.Eng	Jonathan Chui, P.Eng, INCE
Title	Senior Acoustic Engineer	Senior Noise Specialist
Role	• Project Noise lead • Noise emission and modelling • NIA report author	• Quality Review
Training and experience	• Over 25 years of experience in acoustic consulting • Member of the APEGA	• Over 23 years of experience in acoustic consulting • Member of the APEGA and the INCE

Notes:

APEGA = Association of Professional Engineers and Geoscientists of Alberta; INCE = Institute of Noise Control Engineers of the USA; NIA = noise impact assessment

12 References

ANSI (American National Standards). 2005. Quantities and Procedures for Description and Measurement of Environmental Sound – Part 4: Noise Assessment and Prediction of Long-term Community Response (ANSI S12.9-2005/Part 4). New York, 2005.

AUC (Alberta Utilities Commission). 2024. Rule 012, Noise Control, version September 30, 2024 – present. Alberta, Canada.

Bies and Hansen. Engineering Noise Control. – Theory and Practice. Forth Edition, 2009. Spon Press, 2009.

DataKustik. 2025. DataKustik GmbH Cadna/A Computer Aided Noise Abatement (CadnaA) Model, Version 2025 (build:209.5501), Munich, Germany.

Health Canada. 2023. Health Canada's Guidance for Evaluating Human Health Effects in Impact Assessment: NOISE. Health Canada, December 2023.

ISO (International Organization for Standardization). 1993. International Standard ISO 9613-1, ISO 9613-2, Acoustics – Attenuation of Sound During Propagation Outdoors. Part 1: Calculation of Absorption of Sound by the Atmosphere. Geneva, Switzerland.

ISO. 1996. International Standard ISO 9613-1, ISO 9613-2, 2024. Acoustics – Attenuation of sound during propagation outdoors. Part 2: General Method of Calculation. Geneva, Switzerland.

Appendices

Appendix A

Sound Power Levels

Table A.1 Source Sound Power Levels of Project (dB re 1pW)

Source Name	PWL (dB) in Octave Band Center Frequency (Hz) per Unit [a]									dBA
	31.5	63	125	250	500	1000	2000	4000	8000	
QPAC Genset Exhaust Outlet with 90-degree Directivity	94	92	93	78	77	73	74	80	80	85
QPAC Genset Ventilation Exhaust Outlet with 90-degree Directivity	83	85	85	83	78	77	76	78	79	85
QPAC Modular Roof	78	81	87	85	80	79	78	80	81	87
QPAC Modular Side Source	82	85	91	89	84	83	82	84	85	91
Air-Cooled Chiller Outlet	87	82	87	78	71	68	64	73	73	79
Air-Cooled Chiller Inlet	87	84	89	84	74	71	76	76	73	83
Pump Enclosure	80	79	82	79	77	75	72	70	65	80
CFLC-5000 Condensing Boiler Outlet with 90-degree Directivity	78	79	81	77	76	75	73	69	66	80
Data Hall Building Envelope	97	93	88	78	72	64	63	58	56	77
Substation	91	94	96	93	88	88	85	83	77	93
HRSG Stack Exit (with 90-degree directivity)	103	101	93	83	84	81	85	83	81	91
HRSG Stack Casing	107	109	97	94	92	92	85	84	80	96
HRSG Body	107	111	97	97	94	92	89	87	80	98
HRSG Transition Duct	111	110	102	95	95	96	93	92	71	100
GT Exhaust Diffuser	120	117	114	100	89	83	85	84	88	100
GT Combustion Air Inlet Filter House	100	99	95	81	83	84	78	79	77	88
GT Combustion Air Inlet Filter House Duct	101	104	100	97	96	93	90	87	84	98
GT Enclosure Ventilation Outlet	100	92	95	87	77	70	75	70	67	84
GT Enclosure Ventilation Inlet	88	90	91	79	74	73	80	80	76	86

Source Name	PWL (dB) in Octave Band Center Frequency (Hz) per Unit [a]									dBA
	31.5	63	125	250	500	1000	2000	4000	8000	
GT Enclosure	109	104	110	108	103	99	98	96	91	106
GT Lube Oil Package	107	101	95	92	90	87	84	81	75	93
GT Generator	116	103	113	100	97	98	98	95	96	105
ACC Steam Duct	95	97	90	85	81	78	94	75	64	95
ACC Intake	93	92	93	89	86	84	80	73	67	89
ACC Outlet	92	91	92	88	85	83	79	72	66	88
Generator Cooling Inlet	109	108	106	103	102	98	98	95	89	105
Generator Cooling Outlet	105	101	107	92	89	85	87	83	79	95
GSU Transformer	92	95	97	92	90	88	82	77	72	92
Generation Building Roof	114	104	97	82	73	64	64	61	59	84
Generation Building Walls	114	104	97	82	73	64	64	61	59	84
Generation Building Ventilation Exhaust	92	86	77	68	67	68	69	74	75	79
Generation Building Ventilation Intake	92	86	77	68	67	68	69	74	75	79
Pumps and Boiler Feed Water Pumps	99	101	103	95	96	98	100	96	91	105
Auxiliary Boiler	92	91	89	90	88	86	85	82	76	92
Steam Turbine	88	92	87	91	100	103	104	102	97	109
Steam Turbine Generator	102	106	117	107	104	103	102	96	90	109
ST Lube Oil Cooler	102	105	105	102	99	95	92	89	81	101
Water Treatment Units	95	93	88	85	87	87	85	83	80	92

Note:

[a] PWL includes mitigation measures, if applicable

Table A.2 Source Sound Power Levels of Third-Party Facility (dB re 1pW)

Source Name	PWL (dB) in Octave Band Center Frequency (Hz)									dBA
	31.5	63	125	250	500	1000	2000	4000	8000	
AER #1	86	87	84	80	81	81	79	79	66	86
AER #2	101	96	93	85	85	82	76	70	68	87
AER #3	78	78	70	64	62	51	37	39	36	62

Appendix D - Groundwater Tables

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon AI Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
1	128362	NE-11-23-28-W4M	Morban, Gywn	E	0.38	54.86	---	---	---	---	54.86	---	53.64	16-Mar-77	Domestic	New Well
2	128363	NE-11-23-28-W4M	Gowdy, G.D.	E	0.38	33.53	---	---	---	---	---	7.62	---	18-Jan-73	Domestic	Chemistry
3	128364	NE-11-23-28-W4M	Gowdy Farms	E	0.38	37.19	---	---	---	---	35.97	6.10	9.45	12-Aug-81	Domestic & Stock	New Well
4	128365	SW-12-23-28-W4M	Gowdy, D.T.	E-SE	0.96	38.10	---	---	---	---	---	10.67	---	8-Apr-76	Domestic	Chemistry
5	286276	NE-10-23-28-W4M	Tucker, Robyn/Mike	W-NW	1.40	42.67	---	---	35.05	42.67	12.19	9.81	7.62	25-Oct-96	Domestic	New Well
6	1023401	9-14-23-28-W4M	Schemenaiur, Ken	N-NE	1.48	47.24	---	---	41.15	47.24	5.18	8.63	4.88	6-Jul-21	Domestic	New Well
7	1240103	8-15-23-28-W4M	Griffith, Art	NW	1.52	47.24	---	---	41.15	47.24	9.75	7.32	8.53	2-Dec-03	Domestic	New Well
8	128369	NE-14-23-28-W4M	Schemenauer, Ken	N-NE	1.66	19.81	---	---	---	---	---	---	---	20-Jun-79	Domestic	Chemistry
9	155156	NE-14-23-28-W4M	Schemenauer, Ken	N-NE	1.66	33.53	---	---	15.24	21.34	6.71	9.75	5.49	22-Mar-91	Domestic	New Well
10	128368	NW-14-23-28-W4M	Schemenauer, Ken	N-NW	1.67	18.29	---	---	---	---	---	---	---	18-Nov-76	Domestic	Chemistry
11	1021184	NW-14-23-28-W4M	Schneider, Paul	N-NW	1.67	45.72	---	---	33.53	45.72	11.58	5.30	4.88	18-May-06	Domestic	New Well
12	1021571	NW-14-23-28-W4M	Schneider, Paul	N-NW	1.67	39.62	---	---	33.53	39.62	10.97	4.27	8.23	4-Jul-07	Domestic	New Well
13	1021573	NW-14-23-28-W4M	Schneider, Paul	N-NW	1.67	51.82	---	---	39.62	51.82	11.28	3.72	6.10	23-Jul-07	Domestic	New Well
14	9511036	15-10-23-28-W4M	Stahl, Ed	W-NW	1.68	39.62	---	---	32.00	38.10	29.87	9.66	5.49	21-Aug-17	Industrial	New Well
15	1305512	NE-12-23-28-W4M	Reuben Steel Estate	E	1.69	41.76	---	---	35.66	41.76	30.48	18.14	9.14	27-Mar-13	Domestic	New Well
16	1240104	9-15-23-28-W4M	Griffith, Art	NW	1.82	47.24	---	---	41.15	47.24	9.14	5.17	5.18	1-Dec-03	Domestic	New Well
17	128367	NW-13-23-28-W4M	Bricker, Art	NE	2.01	48.77	---	---	18.29	24.38	6.10	9.14	3.05	26-Jan-89	Domestic	New Well
18	128375	NE-15-23-28-W4M	Walker, O.	NW	2.05	41.15	---	---	---	---	---	---	---	11-Dec-79	Domestic	Chemistry
19	289594	NE-15-23-28-W4M	Hansen, Lonnie	NW	2.05	54.86	---	---	48.77	54.86	6.10	6.43	5.18	7-May-98	Domestic	New Well
20	291519	NE-15-23-28-W4M	Hansen, Lonnie	NW	2.05	41.15	---	---	35.05	41.15	6.10	4.11	3.05	17-Jun-98	Domestic	New Well
21	284522	NE-15-23-28-W4M	Hansen, Lonnie#4786	NW	2.05	22.86	---	---	10.67	16.76	11.58	5.70	7.32	25-Jul-02	Domestic	New Well
22	128361	NW-10-23-28-W4M	Busslinger, W.	W	2.06	39.62	---	---	---	---	15.85	10.36	2.74	28-Feb-66	Domestic	Well Inventory
23	128366	13-13-23-28-W4M	Hanlan, Roy	N-NE	2.06	48.77	---	---	36.58	48.77	6.10	4.57	5.49	31-Jul-78	Domestic	New Well
24	286370	SW-15-23-28-W4M	Griffith, Art	W-NW	2.21	57.91	---	---	51.51	57.61	9.14	5.73	7.62	20-Dec-96	Domestic	New Well
25	1476541	4-23-23-28-W4M	Rushfeldt, Pat	N-NW	2.29	24.38	---	---	11.28	23.16	---	4.39	3.96	9-Jul-12	Domestic	New Well
26	128298	SE-2-23-28-W4M	Summers, Merle	S-SE	2.30	27.43	---	---	---	---	---	5.18	---	1-Jan-53	Domestic	Chemistry
27	128455	4-23-23-28-W4M	Four Leaf Clover Trucking	N-NW	2.31	13.72	---	---	---	---	10.67	5.79	5.18	21-Nov-80	Domestic & Stock	New Well
28	128456	4-23-23-28-W4M	Four Leaf Clover Trucking	N-NW	2.31	164.59	---	---	---	---	13.11	3.35	3.35	18-Nov-80	Domestic & Stock	New Well
29	1023178	4-23-23-28-W4M	Gerrard, Leonard	N-NW	2.43	35.05	---	---	28.96	35.05	11.58	28.99	6.71	2-Oct-19	Domestic	New Well
30	1155012	SW-23-23-28-W4M	Bray, Terry	N	2.45	24.38	---	---	15.24	24.38	12.19	10.74	8.23	3-Jun-03	Domestic	New Well
31	157643	SE-2-23-28-W4M	Summers, M.	S	2.45	30.48	---	---	18.29	30.48	12.19	6.40	10.06	7-Jun-91	Domestic	New Well
32	185166	SE-2-23-28-W4M	Summers Farms	S	2.45	30.48	---	---	21.34	30.48	10.67	6.71	7.62	31-Jul-93	Domestic	New Well
33	211198	SW-2-23-28-W4M	Schultz, Dave	S-SW	2.46	29.26	---	---	17.07	29.26	12.19	4.57	10.67	18-May-93	Domestic	New Well
34	241755	SW-23-23-28-W4M	Acres Dev	N	2.46	50.29	---	---	---	---	40.54	14.63	9.14	1-May-72	Domestic	New Well
35	289596	SW-23-23-28-W4M	Melin Hldg	N	2.46	30.48	---	---	18.29	30.48	9.14	14.02	7.92	28-Aug-97	Domestic	New Well
36	257271	SW-23-23-28-W4M	Rushfeldt, R.	N	2.46	54.86	---	---	25.91	32.00	24.38	9.14	6.10	25-Oct-94	Domestic	New Well
37	128458	SW-23-23-28-W4M	Kriz, Wayne	N	2.46	---	---	---	---	---	---	---	---	6-Jul-83	Domestic	Chemistry
38	128443	SW-23-23-28-W4M	Herman Ent	N	2.46	73.15	---	---	---	---	---	12.19	9.14	13-Aug-75	Domestic	New Well
39	128446	SW-23-23-28-W4M	Schack, A.	N	2.46	87.17	---	---	---	---	---	18.29	---	22-Apr-75	Domestic	Chemistry
40	128447	SW-23-23-28-W4M	Coral Constr	N	2.46	18.29	---	---	6.10	12.19	---	4.57	3.05	22-Feb-73	Domestic	New Well
41	128448	SW-23-23-28-W4M	Simpson, A.V.	N	2.46	51.82	---	---	---	---	49.38	30.48	6.10	13-Jul-73	Domestic	New Well
42	128449	SW-23-23-28-W4M	Fox, Victor	N	2.46	60.96	---	---	19.81	53.34	4.57	4.57	3.05	21-Mar-78	Domestic	New Well
43	128450	SW-23-23-28-W4M	Acres Dev	N	2.46	48.77	---	---	15.24	30.48	---	4.57	3.05	1-Feb-73	Domestic	New Well
44	1023106	1-22-23-28-W4M	Visscher, Harold	N-NW	2.48	47.24	---	---	41.15	46.94	12.13	5.27	6.40	2-May-19	Domestic	New Well
45	128371	NW-15-23-28-W4M	Fournier	NW	2.62	64.31	---	---	---	---	31.09	1.52	6.10	1-Jun-71	Domestic	New Well
46	128372	NW-15-23-28-W4M	Harmeson, Clayton	NW	2.62	55.17	---	---	---	---	30.78	2.44	5.49	1-Jun-71	Domestic	New Well
47	128373	NW-15-23-28-W4M	Janzen, Ed	NW	2.62	54.86	---	---	---	---	32.31	1.52	3.05	18-May-72	Domestic	New Well
48	128374	NW-15-23-28-W4M	Lapeare, Bev	NW	2.62	45.72	---	---	---	---	---	---	---	3-Apr-89	Domestic	Chemistry
49	285162	NW-15-23-28-W4M	Singer, Martin/Ellie	NW	2.62	48.77	---	---	36.58	48.77	12.19	9.11	9.14	13-Apr-96	Domestic	New Well
50	128454	5-23-23-28-W4M	Four Leaf Clover Trucking	N	2.70	13.72	---	---	---	---	6.10	3.35	3.05	12-Nov-80	Domestic & Stock	New Well
51	1610862	1-16-23-28-W4M	Sungreen Landscaping	W-NW	2.71	41.15	---	---	32.00	38.10	5.49	6.41	4.57	31-Jul-14	Commercial	New Well
52	128297	SW-1-23-28-W4M	Zigmond, Philip M.	S-SE	2.72	41.15	---	---	38.10	41.15	4.57	3.05	10.67	1-May-71	Domestic	New Well
53	286278	5-23-23-28-W4M	Pennacchetti, Jim #1	N	2.72	152.40	---	---	10.67	19.81	11.89	11.16	8.23	11-Apr-97	Domestic	New Well
54	128436	SE-22-23-28-W4M	Basslinger, W.	N-NW	2.73	39.62	---	---	---	---	---	---	---	1-Jan-77	Domestic	Chemistry
55	147544	SE-22-23-28-W4M	Fisher, Harold, #2554	N-NW	2.73	27.43	---	---	15.24	27.43	11.58	6.49	6.40	17-Oct-94	Domestic	New Well

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon AI Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
56	147493	SE-22-23-28-W4M	Feddema, Rick #2352	N-NW	2.73	48.77	---	---	9.14	15.24	17.68	2.44	6.71	8-Mar-94	Domestic	New Well
57	286277	5-23-23-28-W4M	Pennacchetti, Jim #2	N-NW	2.75	91.44	---	---	18.29	24.38	11.58	16.46	7.01	14-Apr-97	Domestic	New Well
58	128472	5-24-23-28-W4M	Bricker, A.G.	N-NE	2.79	45.72	---	---	---	---	7.62	6.10	6.10	28-Jan-61	Domestic	New Well
59	165068	6-23-23-28-W4M	Gailbreth, Robert	N	2.80	103.63	---	---	94.49	100.58	9.14	19.81	8.53	7-Aug-91	Domestic	New Well
60	125201	NW-7-23-27-W4M	Allison, D. Ross	E	2.84	137.16	---	---	---	---	118.87	39.62	6.71	25-Mar-76	Domestic	New Well
61	128470	2-24-23-28-W4M	Staalduinen	NE	2.85	39.62	---	---	31.09	38.10	12.19	15.24	3.66	31-Jul-79	Domestic	New Well
62	128459	WH-23-23-28-W4M	Gieck, E.	N	2.85	48.77	---	---	---	---	---	3.66	---	17-Apr-73	Domestic	Chemistry
63	128460	WH-23-23-28-W4M	Rosenke, L.R.	N	2.85	18.29	---	---	---	---	---	---	---	16-Sep-74	Domestic	Chemistry
64	128461	WH-23-23-28-W4M	Petrie, Gary	N	2.85	39.01	---	---	---	---	39.01	3.66	24.38	1-Sep-73	Domestic	New Well
65	128462	WH-23-23-28-W4M	Krahulic, W.	N	2.85	39.62	---	---	---	---	---	---	---	15-Sep-77	Domestic	Chemistry
66	290619	SW-7-23-27-W4M	Foothills Nurseries	E-SE	2.96	43.59	---	---	30.48	40.23	11.58	15.51	8.23	19-Jan-99	Domestic	New Well
67	291495	SW-7-23-27-W4M	Foothills Nurseries	E-SE	2.96	43.59	---	---	22.25	37.49	8.84	13.90	8.53	20-Jan-99	Domestic	New Well
68	1155011	SE-16-23-28-W4M	Glab, Daniel	W-NW	2.99	30.48	---	---	24.38	30.48	6.10	3.12	4.57	12-Jun-03	Domestic	New Well
69	150768	SE-16-23-28-W4M	Aldo Mgmt Svc	W-NW	3.00	48.77	---	---	39.62	45.72	25.30	7.62	10.97	31-Mar-90	Domestic	New Well
70	152347	SE-16-23-28-W4M	Siewert, Garth	W-NW	3.00	44.20	---	---	38.10	42.67	42.67	7.01	2.44	21-Jun-90	Domestic	New Well
71	235117	NW-6-23-27-W4M	Tiegs, Barbara	SE	3.00	36.58	---	---	24.38	36.58	7.32	15.54	3.05	20-Oct-93	Domestic	New Well
72	299381	SE-16-23-28-W4M	Glab, Daniel	W-NW	3.00	36.58	---	---	30.48	36.58	9.75	5.46	8.84	9-Jan-02	Domestic	New Well
73	1611064	10-23-23-28-W4M	St. Mary'S Malankara Orthodox Church	N	3.04	77.72	---	---	67.06	74.68	5.49	8.25	4.88	27-Mar-20	Other	New Well
74	128471	SE-24-23-28-W4M	Van Staalduinen, Bert	NE	3.14	30.48	---	---	21.34	30.48	6.10	9.14	3.05	21-Jun-88	Domestic & Stock	New Well
75	286279	SW-22-23-28-W4M	Cusack, Darrell	NW	3.18	54.86	---	---	47.24	54.86	12.19	8.53	8.84	3-May-97	Domestic	New Well
76	128299	3-3-23-28-W4M	Moffat Communications	SW	3.22	22.86	---	---	14.33	22.86	11.89	4.57	10.67	12-Sep-85	Domestic & Industrial	New Well
77	128463	NW-23-23-28-W4M	Acres Dev Ltd	N	3.25	18.29	---	---	12.19	18.29	---	9.14	2.44	15-Dec-72	Domestic	New Well
78	128464	NW-23-23-28-W4M	Cote, Emil	N	3.25	36.58	---	---	24.38	30.48	---	9.14	9.14	13-Sep-74	Domestic	New Well
79	128465	NW-23-23-28-W4M	Corral Constr	N	3.25	18.29	---	---	7.62	12.19	---	6.10	3.05	9-Feb-73	Domestic	New Well
80	128466	NW-23-23-28-W4M	Acres Dev	N	3.25	18.29	---	---	7.62	10.67	---	4.57	3.05	28-Feb-72	Domestic	New Well
81	128467	NW-23-23-28-W4M	Doug, Don	N	3.25	---	---	---	---	---	---	---	---	20-Aug-87	Domestic & Stock	Chemistry
82	128468	NE-23-23-28-W4M	C&O Industries	N	3.25	24.38	---	---	12.19	24.38	6.71	9.14	6.10	13-Sep-80	Domestic & Industrial	New Well
83	260356	NE-23-23-28-W4M	Antliff, Harold	N	3.25	12.19	---	---	6.10	12.19	6.10	4.57	5.49	13-Sep-95	Domestic	New Well
84	289686	NE-23-23-28-W4M	Laganis, Nadio	N	3.25	45.72	---	---	39.62	45.72	9.45	12.74	8.53	14-Aug-97	Domestic	New Well
85	290582	NW-23-23-28-W4M	Don, Doug #98-2	N	3.25	54.86	---	---	16.15	23.77	---	4.27	3.96	13-Oct-98	Domestic	New Well
86	288246	NW-23-23-28-W4M	Don, Doug	N	3.25	50.90	---	---	34.44	45.42	---	9.97	3.35	11-Nov-97	Domestic	New Well
87	218148	NE-23-23-28-W4M	Antliff, Harold	N	3.25	48.77	---	---	33.53	48.77	9.14	9.14	7.62	6-Aug-93	Domestic	New Well
88	285163	NW-23-23-28-W4M	Becmann, Peter	N	3.25	18.29	---	---	5.79	8.84	---	2.53	3.05	14-May-96	Domestic	New Well
89	241046	NW-23-23-28-W4M	Don, Cameron	N	3.25	42.67	---	---	36.58	42.67	6.10	12.25	3.96	26-May-94	Domestic	New Well
90	297825	NW-23-23-28-W4M	Chwala, Zbigniew/Barbara	N	3.25	73.15	---	---	60.96	73.15	5.49	10.67	5.49	22-Nov-01	Domestic	New Well
91	296487	NE-23-23-28-W4M	Laganis, Nadio	N	3.25	48.77	---	---	42.67	48.77	10.36	8.93	7.01	1-Mar-01	Domestic	New Well
92	125249	NW-18-23-27-W4M	Niederlay, G.	E-NE	3.26	30.48	---	---	21.34	28.96	6.10	16.76	2.74	1-Sep-73	Domestic	New Well
93	125250	NW-18-23-27-W4M	Harmeson, L.	E-NE	3.26	59.44	---	---	---	---	59.44	---	3.05	27-May-76	Domestic	New Well
94	1610175	NW-23-23-28-W4M	Chwala, Zbigniew	N	3.26	89.92	---	---	30.48	36.58	6.10	3.75	2.74	13-Apr-05	Domestic	New Well
95	1020973	NW-23-23-28-W4M	Woody, Delbert	N	3.26	59.44	---	---	41.15	59.44	11.58	10.36	3.05	14-Feb-05	Domestic	New Well
96	1021954	NE-4-23-28-W4M	Schneider, Paul	W-SW	3.31	47.24	---	---	35.05	47.24	11.58	18.44	4.57	22-Feb-10	Domestic	New Well
97	128381	NE-16-23-28-W4M	Sparshu, Gary/Theresa	W-NW	3.31	---	---	---	---	---	---	---	---	28-Nov-80	Domestic	Chemistry
98	128382	NE-16-23-28-W4M	Rowand, Brian	W-NW	3.31	---	---	---	---	---	---	---	---	13-May-85	Domestic	Chemistry
99	147072	NE-16-23-28-W4M	Griffith, Art	W-NW	3.31	51.82	---	---	39.62	51.82	17.07	10.67	7.01	24-Oct-89	Stock	New Well
100	1022181	15-4-23-28-W4M	Beyond Foam Insulation	W-SW	3.32	48.77	---	---	42.67	47.24	14.02	15.24	6.40	7-Nov-11	Domestic	New Well
101	9906211	13-23-23-28-W4M	Gautreau, Jerry	N	3.32	60.96	---	---	34.44	43.89	---	9.45	2.44	25-Jun-21	Domestic	New Well
102	1022182	15-4-23-28-W4M	Beyond Foam Insulation	W-SW	3.33	51.82	---	---	45.72	50.29	15.54	17.16	6.10	10-Nov-11	Domestic	New Well
103	131455	NE-34-22-28-W4M	Troyan, J.	S	3.33	27.43	---	---	---	---	---	---	---	23-Jun-76	Domestic	Chemistry
104	131456	NE-34-22-28-W4M	Summers, Merle	S	3.33	21.34	---	---	18.29	21.34	9.14	3.66	12.19	1-Jan-67	Domestic	New Well
105	287261	NE-34-22-28-W4M	Summers, Gord	S	3.33	30.48	---	---	22.86	30.48	12.19	3.08	7.62	8-Sep-97	Domestic	New Well
106	1021955	15-4-23-28-W4M	Schneider, Paul	W-SW	3.35	47.24	---	---	35.05	47.24	11.58	15.27	5.79	22-Feb-10	Domestic	New Well
107	1022139	15-4-23-28-W4M	Schneider, Paul	W-SW	3.36	44.20	---	---	39.62	42.67	14.63	15.67	5.49	27-Oct-11	Domestic	New Well
108	1475827	13-18-23-27-W4M	Palmer, Jeff	E-NE	3.38	36.58	---	---	23.47	29.57	29.57	16.30	3.05	24-Oct-06	Domestic	New Well
109	9681605	13-18-23-27-W4M	1094468 Ab Ltd	NE	3.38	64.62	---	---	22.86	25.91	5.18	18.25	3.35	20-Apr-21	Domestic	New Well
110	9681606	4-19-23-27-W4M	1094468 Ab Ltd	NE	3.42	35.05	---	---	22.86	28.96	5.18	9.10	3.05	20-May-21	Domestic	New Well

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon AI Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
111	1021926	NE-4-23-28-W4M	Janzen, Curt	W-SW	3.45	45.72	---	---	33.53	45.72	11.58	16.97	8.53	20-Jul-09	Domestic	New Well
112	1022138	15-4-23-28-W4M	Schneider, Paul	W-SW	3.45	60.35	---	---	54.25	58.83	13.26	12.04	4.88	26-Oct-11	Domestic	New Well
113	125253	13-18-23-27-W4M	Marchbank, J.	E-NE	3.46	30.48	---	---	18.29	30.48	6.40	3.05	5.49	1-Jan-74	Domestic	New Well
114	128441	NE-22-23-28-W4M	Thalmau, Ted	N-NW	3.46	15.24	---	---	---	---	---	4.57	7.32	---	Domestic	Well Inventory
115	128442	NE-22-23-28-W4M	Meyer, Wm/Linda	N-NW	3.46	28.96	---	---	10.67	16.76	6.10	9.14	4.88	1-Nov-88	Domestic	New Well
116	1635000	NE-22-23-28-W4M	Habib, Bonnie	N-NW	3.47	28.04	---	---	15.24	21.34	5.49	5.18	5.49	11-Mar-03	Unknown	New Well
117	128431	1-21-23-28-W4M	Dvorkin Meat Packers Ltd	NW	3.48	50.29	---	---	39.62	49.99	15.24	21.34	14.02	18-Oct-79	Unknown	New Well
118	128432	1-21-23-28-W4M	Dvorkin Meat Packaging Ltd	NW	3.48	47.24	---	---	38.10	44.20	9.14	9.14	3.66	27-Sep-80	Stock	New Well
119	128469	16-23-23-28-W4M	Apex Bldg Systems	N-NE	3.48	42.67	---	---	24.38	42.67	17.98	7.62	24.38	16-Oct-81	Domestic	New Well
120	1022180	15-4-23-28-W4M	Beyond Foam Insulation	W-SW	3.49	48.77	---	---	42.67	48.77	12.80	18.35	4.27	7-Nov-11	Domestic	New Well
121	1023458	3-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	3.53	47.24	---	---	39.62	45.72	11.28	11.98	2.44	18-Oct-21	Domestic	New Well
122	9681620	14-18-23-27-W4M	10944068 Ab Ltd	E-NE	3.54	64.31	---	---	21.34	27.43	8.23	17.04	6.71	4-May-21	Domestic	New Well
123	1022004	10-4-23-28-W4M	Busic Ivan	W-SW	3.56	47.24	---	---	41.15	47.24	11.58	13.72	3.35	23-Sep-10	Domestic	New Well
124	286275	14-4-23-28-W4M	Mountain Rose Ranches	W-SW	3.56	41.45	---	---	35.36	41.45	6.10	11.67	5.79	27-Jun-97	Domestic	New Well
125	128440	16-22-23-28-W4M	Thelman, Ted	N-NW	3.59	38.10	---	---	---	---	15.24	5.49	1.22	12-Nov-62	Domestic	Well Inventory
126	131467	NW-35-22-28-W4M	Alta Wheat Pool	S-SE	3.61	22.86	---	---	18.29	22.25	---	7.01	14.33	28-Nov-88	Domestic	New Well
127	131461	NW-35-22-28-W4M	Brassard, George	S-SE	3.61	30.48	---	---	---	---	---	24.38	---	15-Mar-66	Domestic	Well Inventory
128	131462	NW-35-22-28-W4M	Kemble, V.C.	S-SE	3.61	13.72	---	---	---	---	---	3.66	---	7-Jul-78	Domestic	Chemistry
129	131463	NW-35-22-28-W4M	Komble, V.	S-SE	3.61	36.58	---	---	---	---	---	7.62	---	8-Nov-79	Domestic	Chemistry
130	131464	NW-35-22-28-W4M	Kemble	S-SE	3.61	36.58	---	---	---	---	---	18.29	---	6-Feb-80	Domestic	Chemistry
131	131465	NW-35-22-28-W4M	Cowan	S-SE	3.61	---	---	---	---	---	---	---	---	4-Oct-83	Domestic	Chemistry
132	131459	NW-35-22-28-W4M	Kemble, V.	S-SE	3.61	18.29	---	---	---	---	---	4.57	---	12-Feb-76	Domestic	Chemistry
133	151404	NW-35-22-28-W4M	Hill, Laird	S-SE	3.61	18.29	---	---	12.80	16.76	16.76	4.27	12.50	23-Apr-90	Domestic	New Well
134	151367	NW-35-22-28-W4M	Marsh, Barr	S-SE	3.61	27.43	---	---	15.24	27.43	15.85	3.35	15.85	16-Sep-89	Industrial	New Well
135	152915	NW-35-22-28-W4M	Little Edgewater Hldg Ltd	S-SE	3.61	33.53	---	---	15.24	21.34	12.19	2.74	10.36	3-Aug-90	Domestic	New Well
136	288398	NW-35-22-28-W4M	Little Edgewater Hldg Ltd	S-SE	3.61	33.53	---	---	24.38	33.53	12.19	4.45	10.67	2-Dec-97	Domestic	New Well
137	297815	NW-35-22-28-W4M	Little Edgewater Hldg Ltd	S-SE	3.61	24.38	---	---	15.24	24.38	6.10	4.48	7.62	24-Aug-01	Domestic	New Well
138	1023490	3-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	3.63	41.15	---	---	33.53	39.62	11.28	11.06	3.66	26-Oct-21	Domestic	New Well
139	9681619	14-18-23-27-W4M	10944068 Ab Ltd	E-NE	3.64	33.83	---	---	21.34	27.43	5.49	15.57	3.35	3-May-21	Domestic	New Well
140	286274	14-4-23-28-W4M	Mountain Rose Ranches	W-SW	3.68	41.15	---	---	35.05	41.15	5.49	9.85	5.18	25-Jun-97	Domestic	New Well
141	1020911	SW-19-23-27-W4M	Keith, Gary	NE	3.70	77.72	---	---	53.34	77.72	12.19	11.64	1.83	12-May-04	Domestic	New Well
142	1020912	SW-19-23-27-W4M	Keith, Gary	NE	3.70	76.20	---	---	57.91	76.20	10.67	5.76	3.66	31-Aug-04	Domestic	New Well
143	2096167	SW-19-23-27-W4M	Harmesynn, Lawney	NE	3.71	59.44	---	---	---	---	---	---	---	30-Jun-77	Domestic	Well Inventory
144	125257	SW-19-23-27-W4M	Forques, W.L.	NE	3.72	106.68	---	---	---	---	---	24.38	---	25-Oct-74	Domestic	Chemistry
145	125258	SW-19-23-27-W4M	Petran	NE	3.72	26.52	---	---	17.98	24.99	4.27	9.14	2.44	22-Oct-75	Domestic	New Well
146	125259	SW-19-23-27-W4M	Mckee Constr	NE	3.72	30.48	---	---	12.19	30.48	6.10	12.19	3.05	26-Jul-79	Domestic	New Well
147	125265	SW-19-23-27-W4M	Cran, Duncan	NE	3.72	45.72	---	---	25.91	30.48	---	11.28	2.44	1-Nov-83	Domestic	New Well
148	125266	SW-19-23-27-W4M	Keith, G.	NE	3.72	85.34	---	---	---	---	---	---	---	30-Nov-83	Domestic	Chemistry
149	125267	SW-19-23-27-W4M	Harmesynn, Lawney	NE	3.72	47.24	---	---	10.67	47.24	6.10	12.19	3.66	6-May-85	Domestic	New Well
150	125268	SW-19-23-27-W4M	Lasslop, Alfredo	NE	3.72	35.05	---	---	16.76	35.05	6.10	16.76	5.49	16-Apr-86	Domestic	New Well
151	125269	SW-19-23-27-W4M	Lasslop, Alfredo	NE	3.72	48.77	---	---	---	---	---	18.29	4.88	15-Apr-86	Domestic	New Well
152	125272	SW-19-23-27-W4M	Wallace, John	NE	3.72	22.86	---	---	16.76	22.86	---	4.27	4.57	29-Apr-88	Domestic	New Well
153	125274	SW-19-23-27-W4M	Keith, Gary B.	NE	3.72	60.96	---	---	---	---	---	---	---	11-Aug-89	Domestic	Chemistry
154	159024	SW-19-23-27-W4M	Wallis, John	NE	3.72	21.34	---	---	9.14	21.34	8.53	5.49	3.66	17-Sep-91	Domestic	New Well
155	159804	SW-19-23-27-W4M	Keith, Gary	NE	3.72	73.15	---	---	9.14	15.24	6.10	10.67	5.79	30-Oct-91	Domestic	New Well
156	159916	SW-19-23-27-W4M	Keith, Gary	NE	3.72	39.62	---	---	10.67	16.76	6.71	8.53	5.49	20-Aug-91	Domestic	New Well
157	159917	SW-19-23-27-W4M	Keith, Gary #2	NE	3.72	77.72	---	---	9.14	16.76	6.71	9.14	5.49	23-Aug-91	Domestic	New Well
158	147565	SW-19-23-27-W4M	Creamer, Joe/Lucy #2633	NE	3.72	51.82	---	---	15.24	27.43	11.58	6.07	5.49	10-Mar-95	Domestic	New Well
159	147566	SW-19-23-27-W4M	Creamer, Joe/Lucy #2632	NE	3.72	51.82	---	---	15.24	27.43	11.58	7.41	5.49	9-Mar-95	Domestic	New Well
160	147593	SW-19-23-27-W4M	Creamer, Joe/Lucy #2778	NE	3.72	31.09	---	---	15.24	31.09	4.27	11.89	26.52	25-Aug-95	Domestic	Deepened
161	225093	SW-19-23-27-W4M	Czornobay, Perry	NE	3.72	36.58	---	---	18.29	36.58	6.10	14.63	2.44	20-May-93	Domestic	New Well
162	186600	SW-19-23-27-W4M	Meston, Scott/Debra	NE	3.72	71.63	---	---	---	---	---	---	---	4-Dec-92	Domestic	Chemistry
163	295891	SW-19-23-27-W4M	Williamson, Gay	NE	3.72	36.58	---	---	22.56	29.26	---	8.56	4.27	26-Apr-01	Domestic	New Well
164	125248	SE-18-23-27-W4M	Thomas, D.R.	E	3.73	18.29	---	---	---	---	---	---	---	18-Dec-63	Domestic	Chemistry
165	125199	SW-6-23-27-W4M	Braunworth, E.	SE	3.74	30.48	---	---	22.86	28.96	---	15.24	4.57	28-Jan-74	Stock	New Well

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon AI Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
166	125200	SW-6-23-27-W4M	Braunworth, Fred	SE	3.74	32.00	---	---	17.37	21.95	---	10.36	6.10	24-Dec-85	Domestic	New Well
167	1023174	5-19-23-27-W4M	Vandeburgt, Ray	NE	3.74	18.29	---	---	12.19	18.29	7.01	7.35	2.13	17-Oct-19	Domestic	New Well
168	150765	SE-7-23-27-W4M	Friesen Farm	E-SE	3.74	48.77	---	---	42.67	48.77	8.53	16.46	3.66	22-Feb-90	Domestic	New Well
169	9681610	3-19-23-27-W4M	1094468 Ab Ltd	E-NE	3.75	35.05	---	---	21.34	27.43	5.18	15.60	3.05	20-May-21	Domestic	New Well
170	128426	SE-21-23-28-W4M	Parrish & Heimbecker	NW	3.77	41.45	---	---	11.89	13.72	---	2.74	6.10	20-Oct-67	Stock	Well Inventory
171	128427	SE-21-23-28-W4M	Parrish & Heimbecker	NW	3.77	51.82	---	---	---	---	15.24	0.61	3.66	26-Nov-64	Stock	Well Inventory
172	128428	SE-21-23-28-W4M	Parrish	NW	3.77	30.48	---	---	---	---	7.01	5.18	6.71	4-Feb-65	Domestic	Well Inventory
173	128429	SE-21-23-28-W4M	Parrish & Heimbecker	NW	3.77	24.38	---	---	10.67	22.86	5.79	3.66	3.05	7-May-70	Domestic	New Well
174	128430	SE-21-23-28-W4M	Parrish & Heimbecker	NW	3.77	2.74	---	---	---	---	---	---	---	27-Jan-65	Domestic	Chemistry
175	128433	SE-21-23-28-W4M	Chalmers, Doug	NW	3.77	30.48	---	---	---	---	---	13.72	---	17-Mar-80	Domestic	Chemistry
176	128377	SW-16-23-28-W4M	Sutherland, Gary	W-NW	3.78	36.58	---	---	---	---	---	3.66	---	10-Jan-06	Domestic & Stock	Well Inventory
177	128378	SW-16-23-28-W4M	Sutherland, Gary	W-NW	3.78	47.24	---	---	---	---	14.63	0.61	5.49	1-Jan-60	Domestic	Well Inventory
178	128379	SW-16-23-28-W4M	Sutherland, Gary	W-NW	3.78	48.77	---	---	24.38	48.77	9.14	---	7.62	27-Aug-84	Domestic	New Well
179	128380	SW-16-23-28-W4M	Sutherland, Gary	W-NW	3.78	42.67	---	---	6.10	18.29	7.32	6.10	5.49	31-Jan-86	Domestic	New Well
180	128346	SW-16-23-28-W4M	Landmark Farms Ltd	W-NW	3.78	37.80	---	---	28.65	37.80	16.76	1.68	12.19	11-Sep-89	Domestic	New Well
181	128473	NE-24-23-28-W4M	Belyea, James E.	NE	3.79	51.82	---	---	---	---	---	---	---	3-Sep-86	Domestic	Chemistry
182	128474	NE-24-23-28-W4M	Meston, Debra	NE	3.79	---	---	---	---	---	---	---	---	7-Apr-86	Domestic	Chemistry
183	128475	NE-24-23-28-W4M	Belyea, James E.	NE	3.79	55.47	---	---	31.09	55.47	5.18	21.34	3.35	19-Jan-89	Domestic & Stock	New Well
184	1023453	SW-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W	3.79	47.24	---	---	41.15	45.72	10.97	14.78	7.62	15-Oct-21	Domestic	New Well
185	1023457	3-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	3.79	35.05	---	---	28.96	33.53	11.58	7.47	6.40	12-Oct-21	Domestic	New Well
186	9681609	3-19-23-27-W4M	1094468 Ab Ltd	E-NE	3.81	65.53	---	---	27.43	30.48	5.18	17.11	3.05	30-Apr-21	Domestic	New Well
187	1023456	3-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	3.82	59.44	---	---	53.95	59.44	13.56	12.65	4.88	7-Oct-21	Domestic	New Well
188	128437	NW-22-23-28-W4M	Pryzner, Stan	N-NW	3.83	12.19	---	---	---	---	---	1.83	---	17-Jun-59	Domestic	Chemistry
189	128438	NW-22-23-28-W4M	Pryzner, Stan	N-NW	3.83	44.20	---	---	38.10	44.20	8.53	2.74	6.40	20-Oct-68	Domestic	New Well
190	9681618	15-18-23-27-W4M	10944068 Abltd	E-NE	3.84	28.96	---	---	22.86	28.96	5.18	14.11	3.05	30-Apr-21	Domestic	New Well
191	1476812	4-25-23-28-W4M	Reimer, Earl	N-NE	3.85	24.38	---	---	12.50	18.59	---	9.49	8.53	10-Sep-15	Domestic	New Well
192	131453	5-34-22-28-W4M	Summers, Merl	S	3.86	28.96	---	---	6.10	28.96	6.10	10.67	6.10	24-Oct-85	Domestic & Stock	New Well
193	131466	11-35-22-28-W4M	Alta Wheat Pool	S-SE	3.88	18.29	---	---	14.33	17.37	---	2.44	12.80	26-Oct-87	Domestic	New Well
194	1022310	14-4-23-28-W4M	Watier, Ray	W-SW	3.90	41.15	---	---	35.05	39.62	17.83	12.69	11.58	12-Dec-12	Domestic	New Well
195	1023455	4-9-23-28-W4M	Simpson Ranchin C/O Shepard Development Corp	W-SW	3.90	39.62	---	---	33.53	39.62	11.77	12.01	9.75	18-Oct-21	Domestic	New Well
196	1023454	4-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	3.91	53.34	---	---	45.72	51.82	11.31	13.96	7.92	13-Oct-21	Domestic	New Well
197	1476381	2-19-23-27-W4M	Sim Flo Systems Inc	E-NE	3.91	32.00	---	---	19.20	26.82	---	13.56	4.57	9-Jul-10	Domestic	New Well
198	1476342	2-19-23-27-W4M	Sim-Flo Systems Inc	E-NE	3.91	32.00	---	---	19.20	26.82	26.82	13.56	4.57	9-Jul-10	Domestic	New Well
199	9681613	3-19-23-27-W4M	10944068 Ab Ltd.	E-NE	3.94	47.24	---	---	22.86	34.14	5.18	14.20	2.44	31-May-21	Domestic	New Well
200	1023452	4-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	3.95	41.15	---	---	35.05	41.15	11.46	19.81	3.66	20-Oct-21	Domestic	New Well
201	9681617	2-19-23-27-W4M	1094468 Ab Ltd	E-NE	3.97	41.15	---	---	22.86	32.00	5.18	14.91	4.88	21-May-21	Domestic	New Well
202	9681614	3-19-23-27-W4M	10944068 Ab Ltd	E-NE	3.98	41.15	---	---	22.86	35.05	5.18	13.72	3.05	28-May-21	Domestic	New Well
203	125251	NE-18-23-27-W4M	Moor, Leonard M.	E-NE	3.98	27.43	---	---	---	---	---	---	---	10-Jul-81	Domestic	Chemistry
204	125252	NE-18-23-27-W4M	Bretin, Vern	E-NE	3.98	22.86	---	---	15.24	21.34	12.19	12.50	8.23	22-Nov-86	Domestic	New Well
205	297823	NE-18-23-27-W4M	Mckinnon, Christine	E-NE	3.98	27.43	---	---	19.81	27.43	5.79	11.95	5.49	21-Aug-01	Domestic	New Well
206	1610805	10-35-22-28-W4M	Indus Arena	S-SE	4.02	42.67	---	---	22.56	31.70	14.63	1.94	14.63	28-Sep-13	Commercial	New Well
207	1610806	10-35-22-28-W4M	Indus Arena	S-SE	4.02	42.67	---	---	21.64	32.31	14.02	1.84	14.02	30-Sep-13	Observation	New Well
208	131468	NE-35-22-28-W4M	Indus Rink	SE	4.02	62.48	---	---	30.48	53.34	---	4.57	18.29	15-Jan-75	Municipal	New Well
209	131469	NE-35-22-28-W4M	Indus School	SE	4.02	30.48	---	---	---	---	---	---	---	12-Dec-58	Domestic	Chemistry
210	131470	NE-35-22-28-W4M	Indus School	SE	4.02	48.77	---	---	---	---	---	3.05	---	16-Oct-72	Domestic	Well Inventory
211	131471	NE-35-22-28-W4M	Thomas, A.	SE	4.02	21.34	---	---	---	---	---	6.10	---	2-Dec-60	Domestic	Well Inventory
212	131472	NE-35-22-28-W4M	Indus School	SE	4.02	36.58	---	---	---	---	---	3.05	---	3-Mar-67	Domestic	Well Inventory
213	131473	NE-35-22-28-W4M	Winkler, F.	SE	4.02	32.00	---	---	21.34	27.43	19.20	11.58	5.79	1-Jul-76	Domestic	New Well
214	131474	NE-35-22-28-W4M	Curling Rink	SE	4.02	36.58	---	---	---	---	36.58	4.27	---	---	Unknown	New Well
215	131475	NE-35-22-28-W4M	Thomas, Victor	SE	4.02	30.48	---	---	---	---	---	---	---	19-Mar-82	Domestic	Chemistry
216	131476	NE-35-22-28-W4M	Vizina, D.	SE	4.02	45.72	---	---	---	---	---	---	---	16-Aug-83	Domestic	Chemistry
217	153935	NE-35-22-28-W4M	Bow Valley Ag.Soc./Neil Miller	SE	4.02	27.43	---	---	21.34	25.91	---	2.44	16.76	30-Dec-86	Domestic	New Well
218	9681148	15-32-22-28-W4M	Solid Rock Baptist Church	SW	4.03	48.77	---	---	30.48	42.67	19.20	6.55	7.92	7-Apr-16	Domestic	New Well
219	128301	NW-4-23-28-W4M	Keller, Kurt	W-SW	4.03	27.43	---	---	21.34	25.91	19.81	8.53	9.14	29-Mar-73	Domestic & Stock	New Well
220	157660	NW-16-23-28-W4M	Begg, Jack	W-NW	4.03	23.77	---	---	---	---	18.29	5.18	0.30	31-May-91	Domestic & Stock	New Well

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon Al Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
221	244332	NW-4-23-28-W4M	Mountain Rose Ranches	W-SW	4.03	42.67	---	---	36.58	42.67	8.53	21.95	8.53	19-Apr-94	Domestic	New Well
222	241044	NW-16-23-28-W4M	Begg, Jack	W-NW	4.03	42.67	---	---	36.58	42.67	6.10	5.43	9.45	16-Apr-94	Domestic	New Well
223	291502	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	32.61	---	---	26.52	32.61	8.53	9.05	8.23	11-Nov-98	Domestic	New Well
224	291503	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	48.77	---	---	42.67	48.77	9.14	9.54	8.53	13-Nov-98	Domestic	New Well
225	291504	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	28.96	---	---	22.86	28.96	6.10	5.06	5.18	25-Nov-98	Domestic	New Well
226	291505	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	30.48	---	---	24.38	30.48	6.40	3.11	5.49	11-Oct-98	Domestic	New Well
227	291506	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	39.62	---	---	33.53	39.62	11.28	8.75	7.92	24-Nov-98	Domestic	New Well
228	291507	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	30.48	---	---	24.38	30.48	9.14	7.74	8.53	16-Nov-98	Domestic	New Well
229	291508	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	27.43	---	---	21.34	27.43	9.45	4.72	8.23	14-Nov-98	Domestic	New Well
230	291509	NW-4-23-28-W4M	Gehrken, Joseph	W-SW	4.03	42.67	---	---	36.58	42.67	9.14	6.46	8.23	14-Nov-98	Domestic	New Well
231	154038	SH-19-23-27-W4M	Olson, Bryan/Shirley	NE	4.04	49.38	---	---	25.30	38.10	7.62	13.11	7.62	24-Sep-90	Domestic	New Well
232	154039	SH-19-23-27-W4M	Olson, Bryan/Shirley	NE	4.04	55.47	---	---	42.67	55.47	8.23	11.58	8.23	19-Sep-90	Domestic	New Well
233	154040	SH-19-23-27-W4M	Olson, Bryan/Shirley	NE	4.04	50.60	---	---	38.10	50.60	6.10	12.80	6.10	28-Sep-90	Domestic	New Well
234	128434	9-21-23-28-W4M	Larrett, Al	NW	4.04	45.72	---	---	9.14	24.38	10.97	5.18	10.36	1-May-72	Domestic	New Well
235	1130035	NW-4-23-28-W4M	Ashdown, Rollie	W-SW	4.06	48.77	---	---	42.67	48.77	15.54	8.44	6.71	23-Mar-05	Domestic	New Well
236	1130036	NW-4-23-28-W4M	Ashdown, Rollie	W-SW	4.06	48.77	---	---	42.67	48.77	11.58	10.03	7.01	21-Mar-05	Domestic	New Well
237	1130037	NW-4-23-28-W4M	Ashdown, Rollie	W-SW	4.06	48.77	---	---	42.67	48.77	14.02	9.45	5.18	18-Mar-05	Domestic	New Well
238	9681616	2-19-23-27-W4M	1094468 Ab Ltd	E-NE	4.07	35.05	---	---	19.81	28.96	8.23	13.94	7.62	30-Apr-21	Domestic	New Well
239	128478	SE-26-23-28-W4M	Nichols, Glen	N	4.07	24.38	---	---	15.24	24.38	12.19	10.67	10.67	10-May-89	Domestic	New Well
240	161927	SW-26-23-28-W4M	Belland, Darlene	N	4.07	35.97	---	---	29.87	35.97	4.27	10.67	3.05	20-Jan-92	Domestic	New Well
241	152496	SW-26-23-28-W4M	Paul Smith & Co	N	4.07	54.86	---	---	30.48	48.77	6.10	12.19	24.38	3-Jul-90	Domestic	New Well
242	131452	15-32-22-28-W4M	Harriman, H.G.	SW	4.08	70.10	---	---	64.01	68.58	12.19	12.19	10.97	21-Jul-79	Domestic	New Well
243	131450	NE-32-22-28-W4M	Harriman, H.	SW	4.10	22.86	---	---	---	---	---	7.62	---	15-Mar-79	Domestic	Well Inventory
244	131451	NE-32-22-28-W4M	---	SW	4.10	36.58	---	---	---	---	7.92	6.71	12.19	28-Jun-55	Domestic	Well Inventory
245	128439	13-22-23-28-W4M	Pryzner, Stan	N-NW	4.10	30.48	---	---	22.86	25.91	12.80	2.44	12.19	22-Jun-68	Stock	New Well
246	1023451	4-9-23-28-W4M	Simpson Ranching C/O Shephard Development Cor	W	4.10	47.24	---	---	41.15	47.24	11.13	10.12	3.35	22-Oct-21	Domestic	New Well
247	1023447	4-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	4.11	41.15	---	---	35.05	41.15	10.97	12.04	10.36	15-Oct-21	Domestic	New Well
248	1023448	4-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W-SW	4.11	53.34	---	---	39.62	45.72	11.28	9.14	5.49	20-Oct-21	Domestic	New Well
249	9681615	2-19-23-27-W4M	10944068 Ab Ltd	E-NE	4.11	35.05	---	---	19.81	27.43	8.53	13.97	8.53	29-Apr-21	Domestic	New Well
250	1600026	12-4-23-28-W4M	Ashdown, Rolly	W-SW	4.11	54.86	---	---	42.67	51.82	12.34	8.90	10.06	27-May-03	Domestic	New Well
251	9681312	7-19-23-27-W4M	Gill, Surinder	E-NE	4.12	36.58	---	---	22.86	30.48	8.84	12.37	8.23	27-Jun-18	Domestic	New Well
252	1023449	4-9-23-28-W4M	Simpson Ranching C/O Shepard Development Corp	W	4.13	40.54	---	---	33.53	39.62	10.97	6.71	8.23	21-Oct-21	Domestic	New Well
253	9681195	2-27-23-28-W4M	Wiebe, Peter	N-NW	4.15	28.96	22.86	28.96	19.81	27.43	5.79	0.62	3.05	26-Sep-16	Domestic	New Well
254	131479	-35-22-28-W4M	Mckee	S-SE	4.15	19.81	---	---	---	---	---	---	---	14-Jan-85	Domestic	Chemistry
255	1611161	6-19-23-27-W4M	Virk, Asad	NE	4.17	77.72	---	---	50.29	72.85	6.10	8.73	3.66	2-Aug-22	Domestic	New Well
256	1023811	NW-4-23-28-W4M	Hussain, Suleman	W-SW	4.18	47.24	---	---	41.15	45.72	11.58	6.49	7.92	18-Dec-23	Domestic	New Well
257	1611225	6-19-23-27-W4M	Virk, Asad	NE	4.20	60.05	---	---	18.29	42.67	6.10	12.00	3.66	21-Nov-23	Domestic	New Well
258	1020920	SW-25-23-28-W4M	Kokot Calvin	N-NE	4.20	59.44	---	---	16.76	22.86	12.19	15.70	5.49	26-Apr-98	Domestic	New Well
259	1021432	SW-25-23-28-W4M	Schneider, Paul	N-NE	4.20	28.96	---	---	22.86	27.43	11.58	6.10	9.14	25-Jan-07	Domestic	New Well
260	128476	SW-25-23-28-W4M	Kokot, Walter	N-NE	4.21	30.48	---	---	---	---	---	---	---	11-Feb-83	Domestic	Chemistry
261	1475038	SE-19-23-27-W4M	Mcnab, Dave & Carol	NE	4.23	27.43	---	---	18.29	24.38	24.38	12.19	3.05	12-May-03	Domestic	New Well
262	1305964	12-8-23-27-W4M	Geldenhuys, Hendrick	E	4.23	24.38	---	---	15.24	24.38	13.41	14.69	4.88	25-Sep-23	Domestic & Stock	New Well
263	292584	SE-27-23-28-W4M	Wiebe, Peter	N-NW	4.24	22.86	---	---	16.76	22.86	4.88	2.04	3.35	5-May-99	Domestic	New Well
264	125277	NW-19-23-27-W4M	Cran, D. #Hole 2	NE	4.29	60.96	---	---	---	---	4.57	---	---	1-Jun-74	Unknown	New Well
265	125279	NW-19-23-27-W4M	Cran, D. #Hole 4	NE	4.29	48.77	---	---	36.58	42.67	4.57	12.19	3.96	1-Jun-74	Unknown	New Well
266	125280	NW-19-23-27-W4M	Hitchcock, Bradley	NE	4.29	9.14	---	---	---	---	---	---	---	8-Apr-86	Domestic	Chemistry
267	125281	NW-19-23-27-W4M	Karg, John	NE	4.29	31.09	---	---	6.71	31.09	6.10	8.23	4.27	18-Jan-88	Domestic	New Well
268	131477	9-35-22-28-W4M	Indus Curling Rink	SE	4.30	67.06	---	---	25.91	28.96	---	3.81	16.46	1-Nov-83	Domestic	New Well
269	128358	16-8-23-28-W4M	Zimmer, A.	W	4.32	54.86	---	---	---	---	9.75	6.10	8.53	17-Nov-81	Domestic & Stock	New Well
270	128435	NE-21-23-28-W4M	Butler, Wayne	NW	4.33	30.48	---	---	---	---	---	---	---	21-Mar-83	Domestic	Chemistry
271	150053	NE-21-23-28-W4M	Kunz, Al	NW	4.33	67.06	---	---	48.77	54.86	6.40	7.62	3.66	8-Mar-90	Domestic	New Well
272	1555305	NE-21-23-28-W4M	Professional Pipe	NW	4.33	96.93	---	---	29.87	35.97	12.04	4.64	5.79	28-Apr-03	Domestic	New Well
273	1555604	NE-21-23-28-W4M	Professional Pipe	NW	4.33	59.44	---	---	44.20	51.82	13.26	5.34	9.75	25-Sep-06	Other	New Well
274	294629	NE-21-23-28-W4M	Professional Pipe & Tube Sales	NW	4.33	121.01	---	---	48.77	70.10	---	6.64	5.49	19-Jul-00	Domestic	New Well
275	287262	SW-35-22-28-W4M	Starby, Gene	S-SE	4.35	22.86	---	---	14.33	21.64	---	3.60	10.36	28-Oct-97	Domestic	New Well

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon AI Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
276	239935	SW-35-22-28-W4M	Schultz, Terry #1	S-SE	4.35	24.38	---	---	16.76	22.86	6.10	3.35	19.81	9-May-94	Domestic	New Well
277	239939	SW-35-22-28-W4M	Schultz, Terry #2	S-SE	4.35	18.29	---	---	11.28	17.37	6.10	3.66	13.72	10-May-94	Domestic	New Well
278	131478	EH-35-22-28-W4M	Thomas, Victor	S-SE	4.35	18.29	---	---	---	---	---	3.05	---	26-Mar-74	Domestic	Chemistry
279	131460	SW-35-22-28-W4M	Bray, Harvey	S-SE	4.35	18.29	---	---	---	---	12.19	---	9.14	14-Oct-88	Domestic	New Well
280	131457	SW-35-22-28-W4M	Armstrong, Larry	S-SE	4.35	19.20	---	---	---	---	19.20	7.62	10.97	4-Oct-75	Domestic	New Well
281	131458	SW-35-22-28-W4M	Dalton, K.	S-SE	4.35	17.37	---	---	---	---	17.37	6.71	---	19-Oct-75	Domestic	New Well
282	125254	SE-19-23-27-W4M	Tiessen, Art	E-NE	4.37	45.72	---	---	39.62	45.72	---	---	3.05	16-Jul-74	Domestic	New Well
283	125255	SE-19-23-27-W4M	Mckee Constr	E-NE	4.37	42.67	---	---	10.67	28.96	5.79	13.72	6.10	3-May-77	Domestic	New Well
284	125256	SE-19-23-27-W4M	Harmesynn, Lawney W.	E-NE	4.37	30.48	---	---	18.29	30.48	9.14	13.72	9.14	14-Jun-89	Domestic	New Well
285	125198	SE-6-23-27-W4M	Bexson, R. Owen	SE	4.38	18.29	---	---	---	---	---	10.67	---	23-Nov-72	Domestic & Stock	Chemistry
286	241757	SE-6-23-27-W4M	Hilton, D.H.	SE	4.38	21.34	---	---	---	---	---	14.63	---	14-Apr-78	Domestic	Chemistry
287	225074	SW-33-22-28-W4M	Bray, Harvey	S-SW	4.39	27.43	---	---	17.98	21.95	---	3.32	15.24	11-Nov-93	Domestic	New Well
288	1155003	SE-35-22-28-W4M	Busslinger, Darcy	S-SE	4.41	36.58	---	---	24.38	36.58	12.19	5.03	12.19	31-Jul-03	Domestic	New Well
289	1155004	SE-35-22-28-W4M	Busslinger, Darcy	S-SE	4.41	24.38	---	---	18.29	24.38	12.19	6.22	15.24	24-Mar-03	Domestic	New Well
290	2066065	NW-8-23-27-W4M	Wellwood-Sawatzky, Debora	E	4.46	15.24	---	---	9.14	15.24	9.75	8.84	7.01	23-Mar-14	Domestic	New Well
291	125202	NW-8-23-27-W4M	Anderson, Jim	E	4.47	24.38	---	---	18.29	21.34	---	12.80	8.53	21-Apr-80	Domestic	New Well
292	169014	NW-8-23-27-W4M	Wenstrom, Gilbert	E	4.47	23.47	---	---	14.33	19.51	---	9.45	6.10	24-Sep-92	Domestic	New Well
293	9681443	9-6-23-27-W4M	Poffenroth, Josh	E-SE	4.48	36.58	---	---	25.91	33.53	5.18	15.22	3.66	14-Oct-19	Domestic	New Well
294	128481	7-27-23-28-W4M	Thalman, Ted	N-NW	4.49	20.12	---	---	---	---	9.45	0.76	5.49	16-Jul-62	Domestic	Well Inventory
295	161192	SE-25-23-28-W4M	Staalduinen, Bart/Fritz, M./S.	N-NE	4.51	55.47	---	---	40.23	55.47	6.10	4.57	5.18	14-Jan-89	Domestic	New Well
296	128360	NE-8-23-28-W4M	Zimmer, A.A.	W	4.52	48.77	---	---	24.38	48.77	6.10	6.10	5.49	4-Feb-86	Domestic	New Well
297	2093777	NE-8-23-28-W4M	Zimmer, A.A.	W	4.52	55.47	---	---	---	---	---	---	---	4-Nov-77	Domestic & Stock	Well Inventory
298	1305585	3-35-22-28-W4M	Dugdale, Keith	S-SE	4.55	24.38	---	---	18.29	24.38	14.94	2.18	12.80	16-Sep-14	Domestic	New Well
299	1020923	SE-8-23-28-W4M	Luck, Carson	W	4.57	70.10	---	---	30.48	67.06	9.14	7.25	7.32	15-Jan-04	Domestic	Deepened
300	125275	14-19-23-27-W4M	Wallace, John	NE	4.57	39.62	---	---	30.48	36.58	14.02	22.86	11.58	10-Sep-84	Stock	New Well
301	238646	15-21-23-28-W4M	Kunz, Al	NW	4.57	58.22	---	---	33.83	55.17	6.10	7.53	1.83	21-Mar-94	Domestic	New Well
302	1475433	9-5-23-28-W4M	Buckley, Sheila	W-SW	4.58	36.58	---	---	24.38	32.31	32.31	8.24	9.14	20-Jan-05	Domestic	New Well
303	1305657	1-25-23-28-W4M	Williams, Lewis	N-NE	4.59	48.77	---	---	42.67	48.77	30.48	8.58	7.01	14-Jan-16	Domestic	New Well
304	128353	SE-8-23-28-W4M	Wenngatz Constr	W	4.59	40.23	---	---	12.19	39.01	15.54	5.49	7.92	19-Jun-81	Domestic	New Well
305	128354	SE-8-23-28-W4M	Wenngatz Constr	W	4.59	32.00	---	---	9.14	30.48	9.45	5.18	7.32	1-Jun-81	Domestic	New Well
306	128355	SE-8-23-28-W4M	Sutherland, Gary	W	4.59	41.15	---	---	35.05	41.15	5.79	10.97	5.79	9-Jul-87	Domestic	New Well
307	154950	SE-8-23-28-W4M	Schaffrath, Ingo	W	4.59	67.06	---	---	12.19	18.29	7.32	5.79	7.01	8-Mar-91	Domestic	New Well
308	241045	SE-17-23-28-W4M	Zimmer Farms	W-NW	4.59	48.77	---	---	36.58	48.77	6.10	5.43	5.18	18-Apr-94	Domestic	New Well
309	1155002	NW-32-22-28-W4M	Olson, Donna	SW	4.63	42.67	---	---	36.58	42.67	9.14	8.15	7.62	19-Jun-03	Domestic	New Well
310	131445	NW-32-22-28-W4M	Morris, W.	SW	4.64	24.38	---	---	---	---	---	---	---	29-Jan-73	Domestic	Chemistry
311	131446	NW-32-22-28-W4M	Morris, Wayne	SW	4.64	28.96	---	---	22.86	28.96	---	4.57	6.10	26-Jun-73	Domestic	New Well
312	131447	NW-32-22-28-W4M	Turuk, S.	SW	4.64	30.48	---	---	---	---	---	---	---	12-Dec-72	Domestic	Chemistry
313	131448	NW-32-22-28-W4M	Morris, Wayne	SW	4.64	30.48	---	---	18.29	30.48	---	9.14	5.49	5-Sep-72	Domestic	New Well
314	131449	NW-32-22-28-W4M	Morris, Wayne	SW	4.64	30.48	---	---	23.77	30.48	8.84	20.73	8.53	7-Jul-77	Stock	New Well
315	286364	NW-32-22-28-W4M	Wiebe, Darryl	SW	4.64	53.34	---	---	47.24	53.34	30.48	17.19	27.74	29-Aug-96	Domestic	New Well
316	251817	8-8-23-28-W4M	Marathon Constr Ltd	W-SW	4.67	28.65	---	---	13.11	28.65	13.11	3.05	12.19	4-Apr-73	Domestic	New Well
317	1140385	8-5-23-28-W4M	Planet Wide Investments	W-SW	4.68	53.34	---	---	47.24	53.34	7.01	---	11.58	27-Oct-07	Domestic	New Well
318	125203	14-8-23-27-W4M	Wenstrom, Gil	E	4.68	10.67	---	---	---	---	---	3.05	---	25-Nov-70	Domestic	Chemistry
319	125204	14-8-23-27-W4M	Wenstrom, Gil	E	4.68	24.38	---	---	---	---	---	3.66	---	30-Nov-70	Domestic	Chemistry
320	157593	SE-35-22-28-W4M	Busslinger, Darcy #2	S-SE	4.69	42.67	---	---	36.58	42.67	12.19	6.40	13.72	25-May-94	Domestic	New Well
321	157594	SE-35-22-28-W4M	Busslinger, Darcy #3	S-SE	4.69	42.67	---	---	36.58	42.67	12.19	6.10	13.72	25-May-94	Domestic	New Well
322	157595	SE-35-22-28-W4M	Busslinger, Darcy #1	S-SE	4.69	48.77	---	---	42.67	48.77	12.19	6.10	13.72	25-May-94	Domestic	New Well
323	164703	SE-35-22-28-W4M	Indus Hldg	S-SE	4.69	42.67	---	---	24.38	30.48	12.19	13.72	10.67	31-Mar-92	Domestic	New Well
324	164706	SE-35-22-28-W4M	Indus Hldg	S-SE	4.69	42.67	---	---	18.29	30.48	6.10	13.72	11.28	1-Apr-92	Domestic	New Well
325	164709	SE-35-22-28-W4M	Indus Hldg	S-SE	4.69	41.45	---	---	23.16	41.45	6.10	11.58	5.49	3-Apr-92	Domestic	New Well
326	198158	SE-35-22-28-W4M	Indus Hldg	S-SE	4.69	41.15	---	---	28.96	41.15	6.10	7.92	11.58	12-Dec-92	Domestic	New Well
327	198159	SE-35-22-28-W4M	Indus Hldg	S-SE	4.69	42.67	---	---	30.48	42.67	6.10	7.62	9.14	15-Dec-92	Domestic	New Well
328	131431	16-28-22-28-W4M	Khan, I.	S	4.70	22.86	---	---	16.76	22.86	3.35	---	3.05	17-Oct-75	Domestic & Stock	New Well
329	1140312	NW-17-23-27-W4M	Wardrop Eng Inc.	E-NE	4.71	28.96	---	---	24.38	28.96	5.49	12.95	4.57	2-Dec-08	Domestic	New Well
330	183405	8-19-23-27-W4M	Harmeson, Loni	E-NE	4.73	35.05	---	---	22.86	35.05	6.10	9.14	4.57	15-Apr-93	Domestic	New Well

TABLE 1a

Water Wells Within a 5 km Radius of Site

Beacon Al Centers - Indus

Water Well Number	Well ID*	Location	Well Owner	Direction From Site	Distance From Site km**	Total Depth m	Top of Screen m	Bottom of Screen m	Top of Perforation m	Bottom of Perforation m	Bottom of Casing m	Depth to Water m	Bedrock Depth m	Date of Information	Proposed Use For Well	Type of Work
331	1475428	9-5-23-28-W4M	Buckley, Shiela	W-SW	4.74	36.58	---	---	26.21	33.22	33.22	10.89	7.01	25-Jan-05	Domestic	New Well
332	128330	8-5-23-28-W4M	Schelb	W-SW	4.74	30.48	---	---	---	---	---	---	---	2-Nov-81	Domestic	Chemistry
333	250873	NW-17-23-27-W4M	Dugdale, A. C/Owestern Chinook	E-NE	4.75	24.38	---	---	16.76	24.38	6.10	16.76	3.05	25-Nov-94	Domestic	New Well
334	290015	NW-5-23-27-W4M	Kristensen, Darlene	E-SE	4.76	30.48	---	---	16.76	25.91	---	13.56	4.57	31-Aug-98	Domestic	New Well
335	1022764	11-8-23-27-W4M	Morris, Jay	E	4.77	22.86	---	---	16.76	21.34	14.63	6.60	12.80	31-Aug-16	Domestic	New Well
336	1475802	NE-5-23-28-W4M	Schelb, Tom & Lisa	W-SW	4.78	48.77	---	---	39.93	45.72	45.72	7.03	8.53	7-Dec-04	Domestic	New Well
337	1475030	14-8-23-27-W4M	Sawatsky, Debra	E	4.80	22.86	---	---	12.19	18.29	18.29	9.50	3.66	20-May-03	Domestic	New Well
338	128327	NE-5-23-28-W4M	Metro Realty	W-SW	4.80	36.58	---	---	29.57	35.66	---	1.22	10.36	1-Jun-72	Domestic	New Well
339	151434	NE-5-23-28-W4M	Schelb, Hans Thomas	W-SW	4.80	45.72	---	---	39.62	45.72	12.19	6.10	10.67	5-Jan-90	Domestic	New Well
340	151375	NE-5-23-28-W4M	Schelb, Hans Thomas#Well 2	W-SW	4.80	50.29	---	---	41.15	50.29	12.19	6.71	9.75	3-Jan-90	Domestic	New Well
341	241832	NE-5-23-28-W4M	Groszko, Vernon	W-SW	4.80	39.62	---	---	---	---	---	---	---	28-Sep-79	Domestic	Chemistry
342	241833	NE-5-23-28-W4M	Weiss, S.	W-SW	4.80	41.15	---	---	27.43	41.15	13.72	2.44	9.14	15-Jun-80	Domestic	New Well
343	202601	NE-5-23-28-W4M	Nachtigall, Henry	W-SW	4.80	47.24	---	---	28.96	47.24	6.10	4.27	4.57	26-Apr-93	Domestic	New Well
344	226498	NE-5-23-28-W4M	Hudye, Alan	W-SW	4.80	27.43	---	---	---	---	---	---	---	31-Jul-92	Domestic	Chemistry
345	221063	9-19-23-27-W4M	Van Staal Duinen, Bart	NE	4.81	31.70	---	---	22.56	31.70	6.71	16.03	3.96	11-Jul-95	Domestic	New Well
346	286269	15-19-23-27-W4M	Van Staaldwnen, Bart	NE	4.83	36.58	---	---	27.43	33.53	7.62	6.25	4.27	7-Nov-96	Domestic	New Well
347	1140384	8-5-23-28-W4M	Planet Wide Investments	W-SW	4.83	22.86	---	---	16.76	22.86	6.71	---	6.10	20-Oct-07	Domestic	New Well
348	1475780	14-26-22-28-W4M	Marshall, Larry	S-SE	4.84	24.38	---	---	14.33	21.34	21.34	4.72	13.11	5-Nov-02	Domestic	New Well
349	294396	NW-27-22-28-W4M	Shrake, Gordon	S	4.85	39.62	---	---	33.53	39.62	10.06	4.36	9.45	26-Nov-99	Domestic	New Well
350	292949	NE-19-23-27-W4M	776268 Alta Ltd	NE	4.86	36.58	---	---	26.21	35.05	---	14.78	3.96	5-Nov-99	Domestic	New Well
351	242116	8-5-23-28-W4M	Walz, P.	W-SW	4.86	36.58	---	---	12.19	33.53	10.06	7.92	7.92	8-Sep-75	Domestic	New Well
352	125282	NE-19-23-27-W4M	Mckee Constr	NE	4.86	22.86	---	---	10.67	22.86	6.10	10.67	3.05	21-Sep-78	Domestic	New Well
353	128310	8-5-23-28-W4M	Walz, Paul	W-SW	4.86	33.53	---	---	---	---	---	15.24	---	17-Mar-78	Domestic	Chemistry
354	128479	NW-26-23-28-W4M	Dbo Investments	N	4.87	146.30	---	---	32.00	36.58	---	4.57	4.88	8-May-80	Municipal	New Well
355	128480	NE-26-23-28-W4M	Honoroski, H.	N	4.87	24.38	---	---	---	---	---	---	---	25-Nov-82	Domestic	Chemistry
356	1022799	15-36-22-28-W4M	Permacast	SE	4.87	36.58	---	---	21.95	32.00	21.95	---	2.74	3-Nov-16	Commercial	New Well
357	1475807	9-27-23-28-W4M	Ford, Ross	N	4.89	73.15	---	---	48.16	58.22	58.22	7.85	3.35	9-Jan-03	Domestic	New Well
358	147507	NW-21-23-28-W4M	Maclean, Gary #2412	NW	4.90	39.62	---	---	27.43	39.62	23.47	7.01	4.88	29-Apr-94	Domestic	New Well
359	147123	NW-21-23-28-W4M	Mclean, Gary	NW	4.90	35.05	---	---	22.86	35.05	12.19	6.10	8.84	14-Jun-89	Domestic & Stock	New Well
360	147125	NW-21-23-28-W4M	Mclean, Gary	NW	4.90	73.15	---	---	---	---	17.98	12.19	15.54	12-Jun-89	Domestic & Stock	New Well
361	147228	NW-21-23-28-W4M	Mclean, Gary #1115	NW	4.90	51.82	---	---	33.53	51.82	17.68	---	15.54	15-Aug-95	Stock	Reconditioned
362	286866	NW-21-23-28-W4M	Bensmiller, Tommy	NW	4.90	91.44	---	---	60.96	91.44	13.11	15.85	10.36	9-Apr-97	Domestic	New Well
363	296412	NW-21-23-28-W4M	Maclean, Gary	NW	4.90	42.67	---	---	30.48	42.67	19.81	15.24	13.72	20-Jun-01	Domestic	New Well
364	1305022	SW-30-23-27-W4M	Schurness, Allen	NE	4.91	61.87	---	---	55.78	61.87	35.36	16.43	10.36	12-Aug-03	Domestic	New Well
365	1140383	8-5-23-28-W4M	Planet Wide Investments	W-SW	4.91	53.34	---	---	47.24	53.34	7.01	---	6.10	23-Oct-07	Domestic	New Well
366	128357	NH-8-23-28-W4M	Zimmer, A.A.	W	4.92	55.47	---	---	---	---	---	53.34	---	4-Apr-78	Domestic	Chemistry
367	131433	NE-28-22-28-W4M	Weech, Glen	S-SW	4.93	39.62	---	---	---	---	---	---	---	21-Mar-84	Domestic	Chemistry
368	290003	NE-28-22-28-W4M	Green Briar Stables	S-SW	4.93	67.06	---	---	54.86	67.06	12.19	3.66	7.62	24-Aug-98	Domestic	New Well
369	240942	SW-30-23-27-W4M	Schurness, Allen	NE	4.94	73.15	---	---	48.77	54.86	20.73	6.89	2.74	8-Jul-94	Domestic	New Well
370	189331	SW-30-23-27-W4M	Schernus, Allen	NE	4.94	48.77	---	---	36.58	48.77	12.50	3.66	2.13	3-Nov-91	Domestic	New Well
371	125451	SW-30-23-27-W4M	Nichols, Ralph	NE	4.94	24.38	---	---	18.29	24.38	12.19	11.28	10.67	11-Jun-88	Domestic	New Well
372	128329	EH-5-23-28-W4M	Calder Cranes Ltd	W-SW	4.95	73.15	---	---	---	---	---	---	---	27-Aug-84	Domestic	Deepened
373	125288	SW-20-23-27-W4M	Bailie, Bill	E-NE	4.95	23.47	---	---	13.72	18.29	---	12.50	3.66	12-Jul-82	Domestic	New Well
374	169186	16-27-23-28-W4M	Lutz, Erwin	N	4.95	79.25	---	---	47.24	50.29	6.10	10.06	5.79	13-Aug-92	Domestic	New Well
375	1023270	1-5-23-28-W4M	Schneider, Paul	W-SW	4.99	35.05	---	---	28.96	35.05	11.64	10.67	5.79	28-Sep-20	Domestic	New Well
376	128477	NW-25-23-28-W4M	Litwiniuk, Res	N-NE	4.99	50.29	---	---	---	---	---	---	---	10-May-83	Domestic	Chemistry

Notes:

--- - not available

* - Government of Alberta (GoA). 2025. Alberta Water Well Information Database. Provided to Montrose Environmental Solutions Canada Inc. by the Groundwater Information Centre (GIC) November 2025. Uploaded to Prometheus Montrose Field Data Portal November 1, 2025. Accessed on November 6, 2025.

** - When no specific project location available, site location is the centre of the LSD or the centre of the quarter section when LSD is not specified.
- the presence and location of these wells were not field verified by Montrose personnel.

TABLE 1b

Active Surface Water and Groundwater Licences Within a 5 km Radius of Site

Beacon Al Centers - Indus

Licence Number	User Number	Applicant	Interim Licence Number	Approval ID	Water Allocation ID	Legal Location	Source	Quantity (m^3)	PUMP RATE (Surface Water - m^3/sec Ground Water - m^3/day)	Consumptive Use (m^3)	Specific Purpose	Licence Type	Licensed Date	Expiry Date
Groundwater Users														
1	1977-04-22-0001	Rustic Acres Water Society	08734	33293	13682	NE-28-022-28-W4	Unnamed Aquifer	2470	32.7	2470	Subdivisions/Condominium-Townhouses/Mobile Homes-Complexes/Cooperatives/Colonies	Term Licence	29-Apr-77	---
2	2001-09-19-0003	Mckinnon, Christine	00217092 00 00	217092	144489	NE-18-023-27-W4	Unnamed Aquifer	50	---	50	Stockwatering	Term Licence	16-Feb-05	15-Feb-30
3	2003-01-27-0002	Ford, Ross	00204171 00 00	204171	145702	NE-27-023-28-W4	Unnamed Aquifer	45.5	---	45.5	Stockwatering	Term Licence	20-Sep-05	19-Sep-30
4	1995-01-26-0003	Josef & Margaret Gehrken	L20573	24320	2674	NW-04-023-28-W4	Unnamed Aquifer	8630	261.85	8630	Subdivisions/Condominium-Townhouses/Mobile Homes-Complexes/Cooperatives/Colonies	Water Resources Interim Licence	24-Oct-95	---
5	2020-12-04-0002	St. Mary'S Malankara Orthodox Church - Calgary	00470834 00 00	470834	375258	NE-23-023-28-W4	Unnamed Aquifer	1000	10	1000	Institutions/Senior-Nursing-Children's Homes/Correctional Centres/Schools/Training Centres/Hospitals/Fire Protection	Term Licence	09-Feb-24	08-Feb-49
6	2024-02-01-0002	2249324 Alberta Ltd	---	DAUT0016283	DRALOC0009382	SE-16-023-28-W4	---	---	---	0	Agricultural/Industrial/Oilfield Services	Term Licence	22-May-24	21-May-34
7	2024-02-01-0002	2249324 Alberta Ltd	---	DAUT0016283	DRALOC0009383	SE-16-023-28-W4	Unknown aquifer	1250	3.4	1250	Agricultural/Industrial/Oilfield Services	Term Licence	22-May-24	21-May-34
8	2017-02-22-0001	Perma-Cast Concrete Contracting Ltd.	---	DAUT0016865	DRALOC0012498	NE-36-022-28-W4	Unnamed Aquifer - Unclassified	500	32.7	500	Cement & Concrete Plants	Term Licence	30-Nov-18	29-Nov-28
9	2017-07-10-0001	Bow Valley Agricultural Society	---	DAUT0016918	DRALOC0012858	NE-35-022-28-W4	Unnamed Aquifer - Unclassified	750	27.2	750	Parks & Recreation/Campgrounds	Term Licence	23-Oct-17	22-Oct-28
10	2017-07-10-0001	Bow Valley Agricultural Society	---	DAUT0016918	DRALOC0012859	NE-35-022-28-W4	Unnamed Aquifer - Unclassified	750	89.6	750	Parks & Recreation/Campgrounds	Term Licence	23-Oct-17	22-Oct-28
Surface Water Users														
1	---	Rocky View County	---	DAUT0023679	DRALOC0024170	SW-09-023-28-W4	---	0	---	0	Regional Water Lines/Regional Municipal Supply Systems	Term Licence	18-Jul-25	17-Jul-50
2	---	Rocky View County	---	DAUT0023679	DRALOC0027699	SW-10-023-28-W4	---	0	---	0	Regional Water Lines/Regional Municipal Supply Systems	Term Licence	18-Jul-25	17-Jul-50

Notes:

--- - not available

- Government of Alberta (GoA). 2025. *Environmental Record Viewer (ERV) - Water Act*. Accessed in November 2025

- this information was extracted directly from an existing database and was not verified by Montrose personnel

Appendix E - Soil Quality Results

Table 1

Soil Analytical Results for the Indus Project

Beacon AI Centers - Indus

Sample Point		KW033	KW033	KW033	KW034	KW034	KW034	KW035	KW035	KW035	KW035	KW036	ABT1 - Agricultural	ABT1 - Natural Area	ABT1 - Residential / Parkland	ABT1 - Commercial / Industrial	ABT1 - Salt Guideline for Topsoil (Good)	ABT1 - Salt Guideline for Subsoil (Good)
Horizon		Ap	Bt	Ck	Ap	Btj	Ckg	Ap	Bt	BCk	Ck	Ap						
Depth (m)		0-0.16	0.16-0.38	0.38-0.9	0-0.38	0.38-0.6	0.6-1	0-0.16	0.16-0.27	0.27-0.37	0.37-1	0-0.14						
Sample Date		03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24						
MSI Sample Number		40354240603108	40354240603109	40354240603110	40354240603111	40354240603112	40354240603113	40354240603114	40354240603115	40354240603116	40354240603117	40354240603118						
Salinity																		
Lab pH		7	7.4	7.7	6.8	7.4	7.4	***5.3***	7.2	7.6	7.9	6.8	6.0-8.5^{ES}	6.0-8.5^{ES}	6.0-8.5^{ES}	6.0-8.5^{ES}	NS	NS
Lab EC	dS/m	0.35	0.51	0.5	0.54	0.78	0.69	0.26	0.51	1.53	1.13	0.39	-	-	-	4.0	2.0	3.0
SAR		0.2	0.2	0.3	0.2	0.6	0.6	0.7	0.6	0.4	1.9	0.3	-	-	-	12	4.0	4.0
TGR	tons/ac	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NS	NS	NS	NS	NS	NS
Soluble Ions																		
Na	mg/kg	4	7	8	6	15	15	14	13	14	58	9	NS	NS	NS	NS	NS	NS
Ca	mg/kg	25.8	56	31.5	42.6	48.7	43.5	19.4	29.4	89.2	34.7	42	NS	NS	NS	NS	NS	NS
Mg	mg/kg	7.3	10.5	13.6	11.8	14.1	12.3	6.4	11.5	43.7	38.2	12.7	NS	NS	NS	NS	NS	NS
K	mg/kg	15	3	3	76	16	10	6	2	3	3	26	NS	NS	NS	NS	NS	NS
Cl	mg/kg	6	31	38	16	83	61	8	63	236	60	8	NS	NS	NS	NS	NS	NS
Cl	mg/L	9	37	54	15	**119**	90	8	86	**345**	87	7	NS	NS	NS	NS	NS	NS
SO_4	mg/kg	14	25.6	21.4	42.6	63.1	75.2	37.4	21	28.3	171	22	NS	NS	NS	NS	NS	NS
Saturation	%	71	84	71	110	70	68	95	73	68	69	107	NS	NS	NS	NS	NS	NS
Physical and Aggregate Properties																		
TOC	%	3.35	1.32	---	4.72	---	---	3.76	1.56	---	---	4.38	NS	NS	NS	NS	-	-
$CaCO_3$ Equivalent	%	0.44	2.58	9.34	0.58	<0.20	0.38	0.23	0.31	7.52	16.9	0.41	NS	NS	NS	NS	-	-
Sieve >75 µm	%	33.6	43.5	28.9	24.3	34.1	43.5	32.7	30.4	32.6	27.5	30.8	NS	NS	NS	NS	-	-
Classification	ABT1	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	NS	NS	NS	NS	-	-
Sand	%	36	37	38	26	38	21	62	38	42	32	41	-	-	-	-	-	-
Silt	%	40	32	32	48	31	28	22	33	28	30	34	-	-	-	-	-	-
Clay	%	24	31	30	26	31	51	16	29	30	38	25	-	-	-	-	-	-
Classification	(CSSC)	Loam	Clay Loam	Clay Loam	Loam	Clay Loam	Clay	Sandy Loam	Clay Loam	Clay Loam	Clay Loam	Loam	-	-	-	-	-	-
Soil Quality Guidelines for Salinity																		
Soil Horizon		Topsoil	Subsoil	Subsoil	Topsoil	Subsoil	Subsoil	Topsoil	Subsoil	Subsoil	Subsoil	Topsoil	-	-	-	-	-	-
Salinity Rating		Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	-	-	-	-	-	-
Sodicity Rating		Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	-	-	-	-	-	-

Notes:

--- - not analyzed

NS - not specified

ES - indicates guideline for Direct Soil Contact (ecological) exposure pathway

ABT1 - *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (EPA 2024)

Bold - indicates chloride in mg/L does not meet the delineation threshold of 100 mg/L for Agricultural or 120 mg/L for Natural Area, Residential/Parkland, Commercial/Industrial

Italics - EC and/or SAR values do not meet the "good" topsoil rating category

Italics - EC and/or SAR values do not meet the "good" subsoil rating category

Italics - indicates values do not meet applicable guidelines

Good topsoil - EC <2.0 dS/m; SAR <4.0

Fair topsoil - EC 2.0 to 4.0 dS/m; SAR 4.0 to 8.0

Poor topsoil - EC 4.0 to 8.0 dS/m; SAR 8.0 to 12

Unsuitable topsoil - EC >8.0 dS/m; SAR >12

Good subsoil - EC <3.0 dS/m; SAR <4.0

Fair subsoil - EC 3.0 to 5.0 dS/m; SAR 4.0 to 8.0

Poor subsoil - EC 5.0 to 10 dS/m; SAR 8.0 to 12

Unsuitable subsoil - EC >10 dS/m; SAR >12

Table 1

Soil Analytical Results for the Indus Project

Beacon Al Centers - Indus

Sample Point		KW036	KW036	KW036	KW037	KW037	KW037	KW037	KW038	KW038	KW038	KW038	ABT1 - Agricultural	ABT1 - Natural Area	ABT1 - Residential / Parkland	ABT1 - Commercial / Industrial	ABT1 - Salt Guideline for Topsoil (Good)	ABT1 - Salt Guideline for Subsoil (Good)
Horizon		Bt	BCk	Ck	Ap	Ahe	Btgj	C	Ap	Btsa	Csk1	Csk2						
Depth (m)		0.14-0.24	0.24-0.58	0.58-1	0-0.22	0.22-0.27	0.27-0.53	0.53-1	0-0.18	0.18-0.3	0.3-0.65	0.65-1						
Sample Date		03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24						
MSI Sample Number		40354240603119	40354240603120	40354240603121	40354240603122	40354240603123	40354240603124	40354240603125	40354240603126	40354240603127	40354240603128	40354240603129						
Salinity																		
Lab pH		7.1	7.6	7.9	***5.6***	6.3	6.7	6.6	6.8	7.1	7	7.7	6.0-8.5[ES]	6.0-8.5[ES]	6.0-8.5[ES]	6.0-8.5[ES]	NS	NS
Lab EC	dS/m	0.59	0.85	0.8	1.16	0.59	1.03	1.12	0.32	***4.64***	***6.89***	***9.99***	-	-	-	4.0	2.0	3.0
SAR		0.3	0.3	0.2	0.4	0.7	0.7	0.7	1.5	3.6	***8.8***	***14.5***	-	-	-	12	4.0	4.0
TGR	tons/ac	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.6	11.9	NS	NS	NS	NS	NS	NS
Soluble Ions																		
Na	mg/kg	9	9	7	20	25	28	29	35	345	708	1300	NS	NS	NS	NS	NS	NS
Ca	mg/kg	60.1	69.1	46.7	98.9	58.7	88	106	22.8	393	299	261	NS	NS	NS	NS	NS	NS
Mg	mg/kg	11.8	17.2	30.2	27	16.8	24	26.3	8.2	285	262	403	NS	NS	NS	NS	NS	NS
K	mg/kg	5	3	3	110	44	18	16	16	10	10	20	NS	NS	NS	NS	NS	NS
Cl	mg/kg	50	93	90	14	9	66	88	8	26	93	99	NS	NS	NS	NS	NS	NS
Cl	mg/L	62	**128**	**121**	12	8	78	**101**	6	33	**138**	**153**	NS	NS	NS	NS	NS	NS
SO_4	mg/kg	18	22.4	24.9	140	102	177	214	66.8	2600	2990	4700	NS	NS	NS	NS	NS	NS
Saturation	%	82	73	75	119	115	85	87	121	81	67	65	NS	NS	NS	NS	NS	NS
Physical and Aggregate Properties																		
TOC	%	1.82	---	---	5.59	4.27	---	---	4.45	---	---	---	NS	NS	NS	NS	-	-
$CaCO_3$ Equivalent	%	2.44	4.44	10.4	0.39	0.47	0.31	0.27	0.3	0.39	7.32	16.1	NS	NS	NS	NS	-	-
Sieve >75 µm	%	33.6	32.4	28.5	10	12	19.5	21.3	23.6	8.7	4.2	10	NS	NS	NS	NS	-	-
Classification	ABT1	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	NS	NS	NS	NS	-	-
Sand	%	41	42	35	21	21	33	34	28	21	22	28	-	-	-	-	-	-
Silt	%	28	26	29	48	49	29	25	45	45	46	38	-	-	-	-	-	-
Clay	%	31	32	36	31	30	38	41	26	34	32	34	-	-	-	-	-	-
Classification	(CSSC)	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay	Loam	Clay Loam	Clay Loam	Clay Loam	-	-	-	-	-	-
Soil Quality Guidelines for Salinity																		
Soil Horizon		Subsoil	Subsoil	Subsoil	Topsoil	Topsoil	Subsoil	Subsoil	Topsoil	Subsoil	Subsoil	Subsoil	-	-	-	-	-	-
Salinity Rating		Good	Good	Good	Good	Good	Good	Good	Good	Fair	Poor	Poor	-	-	-	-	-	-
Sodicity Rating		Good	Good	Good	Good	Good	Good	Good	Good	Good	Poor	Unsuitable	-	-	-	-	-	-

Notes:

--- - not analyzed

NS - not specified

ES - indicates guideline for Direct Soil Contact (ecological) exposure pathway

ABT1 - *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (EPA 2024)

Bold - indicates chloride in mg/L does not meet the delineation threshold of 100 mg/L for Agricultural or 120 mg/L for Natural Area, Residential/Parkland, Commercial/Industrial

Italics - EC and/or SAR values do not meet the "good" topsoil rating category

Italics - EC and/or SAR values do not meet the "good" subsoil rating category

Italics - indicates values do not meet applicable guidelines

Good topsoil - EC <2.0 dS/m; SAR <4.0

Fair topsoil - EC 2.0 to 4.0 dS/m; SAR 4.0 to 8.0

Poor topsoil - EC 4.0 to 8.0 dS/m; SAR 8.0 to 12

Unsuitable topsoil - EC >8.0 dS/m; SAR >12

Good subsoil - EC <3.0 dS/m; SAR <4.0

Fair subsoil - EC 3.0 to 5.0 dS/m; SAR 4.0 to 8.0

Poor subsoil - EC 5.0 to 10 dS/m; SAR 8.0 to 12

Unsuitable subsoil - EC >10 dS/m; SAR >12

Table 1

Soil Analytical Results for the Indus Project

Beacon Al Centers - Indus

Sample Point		KW039	KW039	KW039	KW039	KW040	KW040	KW040	KW040	KW041	KW041	KW041	ABT1 - Agricultural	ABT1 - Natural Area	ABT1 - Residential / Parkland	ABT1 - Commercial / Industrial	ABT1 - Salt Guideline for Topsoil (Good)	ABT1 - Salt Guideline for Subsoil (Good)
Horizon		Ap	Ahesa	Btsgj	C	Ap	Bm	BC	Ck	Ap	Bmk	Bcsak						
Depth (m)		0-0.19	0.19-0.25	0.25-0.4	0.45-0.9	0-0.15	0.15-0.25	0.25-0.47	0.47-1	0-0.35	0.35-0.5	0.5-0.75						
Sample Date		03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24						
MSI Sample Number		40354240603130	40354240603133	40354240603131	40354240603132	40354240603134	40354240603135	40354240603136	40354240603137	40354240603138	40354240603139	40354240603140						
Salinity																		
Lab pH		6.8	7.1	7.3	7.4	***5.1***	6.7	6.9	7.8	7.1	7.2	7.4	6.0-8.5[ES]	6.0-8.5[ES]	6.0-8.5[ES]	6.0-8.5[ES]	NS	NS
Lab EC	dS/m	*3.18*	*4.27*	***3.32***	2.98	0.47	0.56	0.96	1.31	0.79	***4.49***	***3.97***	-	-	-	4.0	2.0	3.0
SAR		3.9	*5*	***4.3***	3	0.9	0.8	0.5	2.3	0.8	2.4	2.5	-	-	-	12	4.0	4.0
TGR	tons/ac	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NS	NS	NS	NS	NS	NS
Soluble Ions																		
Na	mg/kg	341	475	252	171	16	19	15	70	29	196	180	NS	NS	NS	NS	NS	NS
Ca	mg/kg	287	380	224	230	17.5	38.2	56.1	39.5	65	371	314	NS	NS	NS	NS	NS	NS
Mg	mg/kg	150	186	84.8	75.2	4.9	11.8	23.6	37.9	25	236	175	NS	NS	NS	NS	NS	NS
K	mg/kg	110	80	30	20	17	3	3	3	18	10	20	NS	NS	NS	NS	NS	NS
Cl	mg/kg	80	117	87	201	8	13	147	64	7	132	42	NS	NS	NS	NS	NS	NS
Cl	mg/L	75	**118**	**124**	**287**	9	17	**212**	98	8	**193**	63	NS	NS	NS	NS	NS	NS
SO_4	mg/kg	1760	2470	1230	869	60	123	34.8	229	49.3	1870	1710	NS	NS	NS	NS	NS	NS
Saturation	%	106	98	70	70	93	77	69	65	87	68	67	NS	NS	NS	NS	NS	NS
Physical and Aggregate Properties																		
TOC	%	6.36	4.12	---	---	3.82	1.62	---	---	3.59	---	---	NS	NS	NS	NS	-	-
$CaCO_3$ Equivalent	%	0.88	0.51	0.29	0.38	<0.20	0.22	0.22	17.3	0.84	4.31	10.9	NS	NS	NS	NS	-	-
Sieve >75 µm	%	21.1	15.9	19	29.2	33.5	12.3	25.1	25.4	32	16.5	14.1	NS	NS	NS	NS	-	-
Classification	ABT1	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	NS	NS	NS	NS	-	-
Sand	%	24	24	38	38	35	28	28	32	33	32	26	-	-	-	-	-	-
Silt	%	50	53	29	27	41	46	44	30	40	37	40	-	-	-	-	-	-
Clay	%	26	23	33	35	24	26	28	38	27	31	34	-	-	-	-	-	-
Classification	(CSSC)	Silt Loam	Silt Loam	Clay Loam	Clay Loam	Loam	Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	-	-	-	-	-	-
Soil Quality Guidelines for Salinity																		
Soil Horizon		Topsoil	Topsoil	Subsoil	Subsoil	Topsoil	Subsoil	Subsoil	Subsoil	Topsoil	Subsoil	Subsoil	-	-	-	-	-	-
Salinity Rating		Fair	Poor	Fair	Good	Good	Good	Good	Good	Good	Good	Fair	-	-	-	-	-	-
Sodicity Rating		Good	Fair	Fair	Good	Good	Good	Good	Good	Good	Good	Good	-	-	-	-	-	-

Notes:

--- - not analyzed

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Fair topsoil - EC 2.0 to 4.0 dS/m; SAR 4.0 to 8.0

Poor topsoil - EC 4.0 to 8.0 dS/m; SAR 8.0 to 12

Unsuitable topsoil - EC >8.0 dS/m; SAR >12

Good subsoil - EC <3.0 dS/m; SAR <4.0

Fair subsoil - EC 3.0 to 5.0 dS/m; SAR 4.0 to 8.0

Poor subsoil - EC 5.0 to 10 dS/m; SAR 8.0 to 12

Unsuitable subsoil - EC >10 dS/m; SAR >12

Table 1

Soil Analytical Results for the Indus Project

Beacon Al Centers - Indus

Sample Point		KW041	KW042	KW042	KW042	KW042	KW042	KW043	KW043	KW043	KW043	KW043	ABT1 - Agricultural	ABT1 - Natural Area	ABT1 - Residential / Parkland	ABT1 - Commercial / Industrial	ABT1 - Salt Guideline for Topsoil (Good)	ABT1 - Salt Guideline for Subsoil (Good)
Horizon		Ck	Ap	Ah	Bg	Cgj	Ck	Ap	Ahe	Btjg	Cg1	Cg2						
Depth (m)		0.75-1	0-0.12	0.12-0.25	0.25-0.4	0.4-0.6	0.6-1	0-0.2	0.2-0.29	0.29-0.39	0.39-0.6	0.6-1						
Sample Date		03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24	03-Jun-24						
MSI Sample Number		40354240603141	40354240603142	40354240603143	40354240603144	40354240603145	40354240603146	40354240603147	40354240603148	40354240603149	40354240603150	40354240603151						
Salinity																		
Lab pH		7.6	6.7	7.4	7.5	7.6	7.7	6.7	6.6	7.1	7.2	6.9	6.0-8.5[ES]	6.0-8.5[ES]	6.0-8.5[ES]	6.0-8.5[ES]	NS	NS
Lab EC	dS/m	2.94	0.34	0.53	0.76	***3.12***	2.89	0.82	0.88	1.6	1.82	1.83	-	-	-	4.0	2.0	3.0
SAR		1.8	0.4	0.5	0.8	0.8	1.2	0.6	1.4	1.4	1.3	1	-	-	-	12	4.0	4.0
TGR	tons/ac	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NS	NS	NS	NS	NS	NS
Soluble Ions																		
Na	mg/kg	115	9	16	19	70	72	29	47	55	57	47	NS	NS	NS	NS	NS	NS
Ca	mg/kg	267	25.6	50.5	48	459	274	77.4	56	104	132	141	NS	NS	NS	NS	NS	NS
Mg	mg/kg	110	8.1	17.2	15.6	140	81.9	23	20.2	37.3	46.6	44.7	NS	NS	NS	NS	NS	NS
K	mg/kg	20	32	4	2	<9	7	100	45	29	26	23	NS	NS	NS	NS	NS	NS
Cl	mg/kg	59	8	9	12	229	132	19	17	30	65	180	NS	NS	NS	NS	NS	NS
Cl	mg/L	87	8	10	19	**269**	**207**	14	18	43	92	**240**	NS	NS	NS	NS	NS	NS
SO_4	mg/kg	1180	37.2	96.9	138	1330	873	129	255	432	489	347	NS	NS	NS	NS	NS	NS
Saturation	%	68	98	94	64	85	63	134	94	70	70	75	NS	NS	NS	NS	NS	NS
Physical and Aggregate Properties																		
TOC	%	---	4.47	3.05	---	---	---	5.59	4	---	---	---	NS	NS	NS	NS	-	-
$CaCO_3$ Equivalent	%	20.9	0.6	0.62	0.46	4.08	16.5	0.53	0.35	0.21	0.27	0.22	NS	NS	NS	NS	-	-
Sieve >75 µm	%	18	24	19	12	5.8	15.5	20	20	13.7	13.5	23.8	NS	NS	NS	NS	-	-
Classification	ABT1	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	Fine-Grained	NS	NS	NS	NS	-	-
Sand	%	26	27	24	23	20	30	31	27	22	27	36	-	-	-	-	-	-
Silt	%	42	49	49	48	48	38	36	46	47	37	26	-	-	-	-	-	-
Clay	%	32	24	27	29	32	32	33	27	31	36	38	-	-	-	-	-	-
Classification	(CSSC)	Clay Loam	Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	-	-	-	-	-	-
Soil Quality Guidelines for Salinity																		
Soil Horizon		Subsoil	Topsoil	Topsoil	Subsoil	Subsoil	Subsoil	Topsoil	Topsoil	Subsoil	Subsoil	Subsoil	-	-	-	-	-	-
Salinity Rating		Good	Good	Good	Good	Fair	Good	Good	Good	Good	Good	Good	-	-	-	-	-	-
Sodicity Rating		Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	-	-	-	-	-	-

Notes:

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Fair topsoil - EC 2.0 to 4.0 dS/m; SAR 4.0 to 8.0

Poor topsoil - EC 4.0 to 8.0 dS/m; SAR 8.0 to 12

Unsuitable topsoil - EC >8.0 dS/m; SAR >12

Good subsoil - EC <3.0 dS/m; SAR <4.0

Fair subsoil - EC 3.0 to 5.0 dS/m; SAR 4.0 to 8.0

Poor subsoil - EC 5.0 to 10 dS/m; SAR 8.0 to 12

Unsuitable subsoil - EC >10 dS/m; SAR >12