

June 28, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Ontario Ministry of Natural resources and Forestry Intent to Participate 2022

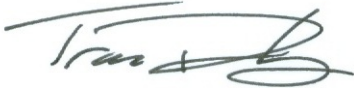
Back in 2017 the Town of Fort Frances partnered with the Ministry of Natural Resources and Forestry (MNRF) to obtain new high resolution areal photography for the Town of Fort Frances at a drastically reduced cost compared to the Town undertaking the work on our own.

We have been contacted by MNRF to gauge our interest in participating again in the same Northwestern Ontario Orthophotography Project in 2022(NWOOP 2022). Attached you will find a report from Trish Law, GIS Expert outlining the program. The Town, when we undertook our first gathering of orthophotography back in 2007, planned to refresh our imagery every 10 years, due primarily to the cost involved in obtaining that data. With the partnership between the Town and MNRF we can easily afford to update our imagery on a more frequent basis.

This item will be brought forward in the 2022 budget, however MNRF are looking for confirmation from their partners as soon as possible to finalize plans for flying spring 2022.

It is the recommendation of Administration to agree to partner with the Ministry of Natural Resources and Forestry for aerial orthophotography under the 2022 Northwestern Ontario Orthophotography Project.

Respectfully Submitted



Travis Rob, P.Eng
Manager of Operations and Facilities

Council approval of this report will agree with the recommendation of Administration to agree to partner with the Ministry of Natural Resources and Forestry for aerial orthophotography under the 2022 Northwestern Ontario Orthophotography Project.

June 10, 2021.

Report To: Travis Rob, O&F Manager

From: Trish Law, GIS Expert

**SUBJECT: Ontario Ministry of Natural Resources and Forestry (MNRF)
Invitation and Intent to Participate NWOOP2022**

In 2017 The Town of Fort Frances participated in an aerial photography acquisition project with the Ontario Ministry of Natural Resources and Forestry (MNRF) called the North West Ontario Orthophotography Project or NWOOP2017. From this, the Town was able to acquire high resolution digital imagery within the Town limits, Town islands in Rainy Lake East of Couchiching First Nation and Sunny Cove camp in Watten Township. The total cost to participate was \$1000 plus HST.

On June 9, 2021, I received an email from Bryce Matthews from the MNRF regarding intent to gather new digital aerial photography of this region in 2022, called the North West Ontario Orthophotography Project or NWOOP2022. At this time, the MNRF is looking for interested parties to be part of this data acquisition. Through this project, the MNRF would be obtaining leaf-off 20cm resolution multi-spectral imagery of Northwestern Ontario and would be offering municipalities and other interested parties the opportunity to join this project and obtain resulting imagery at a very low cost. The proposed cost is \$5-\$6 per square kilometer, with a minimum contribution of \$1000 as per the last project. Due to the small size of the area the Town would require, we would be required to submit the \$1000 minimum to receive the data products should we wish to participate. A copy of the letter of intent and acquisition flyer are attached to this report. The imagery collection would commence during the spring of 2022 and all deliverables would be received by the Town for use by February of 2023. By joining this agreement, the Town would be able to obtain current aerial imagery at a very low cost.

As with the 2017 imagery, the new imagery is a licensed product under the Queens' Printer for Ontario and as such, can be for in-house use only. If the new imagery is to be distributed to any outside organization, regardless of if they are working directly for the Town of Fort Frances or not, the existing Town of Fort Frances Geospatial Data Share Agreement will require amending to include clauses from the Ontario Geospatial Data Share Agreement set forth under the Participant Agreement and would require a minimum fee to be determined by the MNRF per square kilometer of data the Town receives. The data cannot be freely distributed as we have done in the past. The licensing agreement with the MNR for three years, after which the Town would be free to charge and license the new imagery under the fee set for by the Town of Fort Frances User Fee By-Law and the current Geospatial Data Share Agreement.

I strongly recommend signing the Participant Agreement with the MNRF to obtain updated aerial imagery of the Town.

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Respectively Submitted,

Trisha Law, MGIS
GIS Expert

Need Access to Imagery in Northwest Ontario?

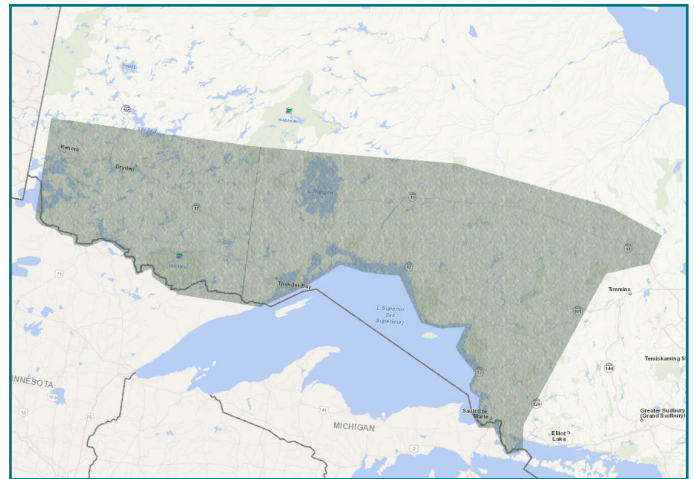
Become a Partner and Save on Collection Costs

Northwest Ontario Orthophotography Project Factsheet

Land Information Ontario (LIO) is looking for partners to acquire aerial imagery for Northwest Ontario in the spring of 2022.

The project will capture 20 cm resolution, leaf-off, multi-spectral imagery that is accurate within 60 cm "on the ground". Partners will have access to all imagery products including the orthophotography, stereo data and digital elevation surface models.

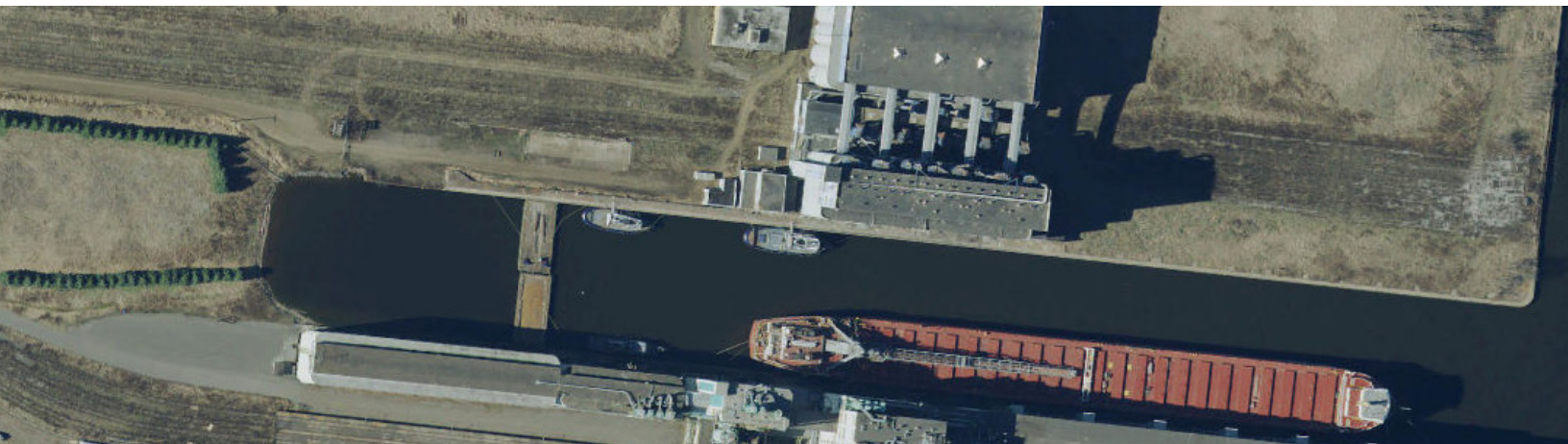
LIO pays 40 percent of acquisition costs. Remaining costs are shared by partner organizations. As more partners join, costs decrease for each partner. As a result, partners realize significant costs savings when compared to acquiring the imagery on their own.



General project target area—to be refined

Partnership Benefits:

- ✓ Access to up-to-date, high-quality imagery for mapping, analysis and interpretation.
- ✓ Save on acquisition costs—in some cases over 90 percent.
- ✓ Input into the final capture area.



LIO Imagery Acquisition Program:

Up-to-date imagery is critical for mapping as well as land use planning, asset management, research, analysis, emergency planning, compliance enforcement and much more. The Program coordinates partnerships to acquire new imagery on five-year refresh cycles. Since 2013, over 370,000 square kilometres of aerial imagery has been captured throughout Ontario.

How to Participate:

Participation requires a minimum contribution of \$1,000. Total funding commitment is based on the organization's area of interest.

An agreement between partners and the Ministry of Natural Resources and Forestry will govern funding and identify the terms and conditions of data use. The Queen's Printer for Ontario retains ownership of the data. Delivery of orthophotography to partners should occur in the following winter.

A steering committee of project partners and LIO representatives provides oversight for the project, supports the development of partnerships across public and private sectors and assists with logistics prior to acquisition.



For More Information

email: imagery@ontario.ca

visit: ontario.ca/lio

Trish Law

From: Imagery <Imagery@ontario.ca>
Sent: Wednesday, June 9, 2021 1:40 PM
To: Imagery
Cc: Matthews, Bryce (MNRF)
Subject: [External] North West Ontario Aerial Photography Project 2022 - Ministry of Natural Resources and Forestry
Attachments: Template-Letter of Intent to Participate-NWOOP2022.docx; LIO-NWOOP2020-ENG-2021-05-04.pdf

[EXTERNAL] Don't click links or attachments unless you recognize the sender and know the content is safe. You can forward suspicious messages to support@fortfrances.ca.

The Ontario Ministry of Natural Resources and Forestry (MNRF) invites you to participate in an aerial photography acquisition project of north west Ontario scheduled for the spring of 2022.

By participating in NWOOP (North West Ontario Orthophotography Project) 2022, your organization will gain access to current, high quality, high resolution aerial photography as soon as it is available at a very low cost. This photography can be used for a variety of purposes such as:

- providing a spatial reference in online mapping applications
- information and reference for land use and emergency planning
- assist with asset management mapping
- information for tax/permit compliance
- information for economic development, policy development, environmental management
- assist with various monitoring activities
- field work planning
- information to create or update mapping of any surface feature such as roads, buildings, streams, lakes, etc.

In the spring of 2017, the MNRF coordinated an aerial photography project in north west Ontario with local participants and acquired nearly 23,000 km² of aerial photography. Participants included 13 municipalities, 3 federal agencies, 3 private companies and 3 other organizations. Because of the success in 2017, we are looking to expand the acquisition in 2022 to up to 40,000 km².

This email contains information regarding the project and your potential participation. You have been contacted as you were a past participant in NWOOP 2017, (or another LIO acquisition) or potentially have an interest in participating in the project. If you are not the correct contact for your organization, please forward to that person, or reply to this email with the correct contact information.

A public virtual meeting/teleconference to discuss NWOOP 2022 has been set for September 15, 2021 at 2pm EST, 1pm CST. Connection details and phone number will be provided closer to the event. Additionally, we hope to have some presentations of applications using NWOOP 2017 (or similar data). If you have an idea for a presentation, whether from you or an application/presentation you have seen that would be beneficial for all to hear, please let me know. It would also be good to have a discussion on how well this program is serving you, and any ideas/suggestions you have on how it can be improved. Please let me know if you can make it so that we can plan accordingly.

Please find attached an information sheet for NWOOP 2022. The map in the sheet depicts the area of consideration, which is very large. We cannot collect all this area; it must be refined, and we look to all the project participants to help

us do that. As it is a shared cost initiative, your final cost of participation cannot be determined until all participants and their area of interest are known. Our goal is to acquire enough participation to bring the shared cost per participant down to less than \$5-6 per km².

If you know you would like to participate in the acquisition, you can fill out the attached *Letter of Intent to Participate* template attached. By filling out the Letter of Intent, you are not binding yourself to participate – you can withdraw at any time simply by letting us know.

NWOOP 2022 will be acquired in the spring. We start the process of finding project participants now so everyone can determine their area of interest and plan their budgets. Participants pay for their NWOOP participation in two installments; forty percent after agreement execution (by September 2022) and sixty percent after data delivery (by February 2023).

If your organization is not interested in participating, please let me know by replying to this email, so that I can remove you from my communications list.

If you have any questions at all, feel free to contact me anytime.

Sincerely,

Bryce

Bryce Matthews

Mapping and Geomatics Project Manager
Spatial Data and Support Unit
Mapping and Geomatics Services Section
Mapping and Information Resources Branch
Corporate Management and Information Division
Ontario Ministry of Natural Resources and Forestry
P.O. Box 7000, 300 Water St., 2nd Floor, North Tower
Peterborough, ON K9J 3C7
Cell: 705-313-0982
Email: bryce.matthews@ontario.ca

Ontario Imagery

imagery@ontario.ca

Discover more about Land Information Ontario:

<https://intra.ontario.ca/mnrf/mirb-lio> (internal)

<https://www.ontario.ca/page/land-information-ontario> (external)

Learn more about how [Ontario Together](#) connects government with businesses and organizations who can supply emergency products and innovative solutions to support the COVID-19 response.

Please note: As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats

<<<DATE>>>

Ontario Ministry of Natural Resources and Forestry
Corporate Management and Information Division
Mapping and Information Resources Branch
Mapping and Geomatics Services Section
Spatial Data Support Unit
300 Water Street
2nd Floor, North Tower
Peterborough, Ontario
K9J 3C7

Attention: Mapping and Geomatics Project Manager, Spatial Data Support Unit

Re: North West Ontario Orthophotography Project (NWOOP) – 2022

Letter of Intent to Commit Funding

To whom it may concern,

This letter is to inform you that the <<< **Insert Organization Name** >>> intends to participate in the project to acquire leaf off, digital orthophotography in north west Ontario during the spring of 2022. We acknowledge that the Ministry of Natural Resources and Forestry (MNRF) is the lead for this project and requires this Letter of Intent to Commit Funding as the first component of organizational commitment to the project. It is expected that this letter gives the MNRF the ability to continue with the management and implementation of the project, which will include formalizing the participation and developing the funding model. Subject to the appropriate financial approvals, <<< **Insert Organization Name** >>> agrees that they will genuinely pursue funding and a firm commitment for this project but recognize that, should their Council or Board not approve such an expenditure, they will have no legal obligation to provide funding.

It is understood that participation in the NWOOP 2022 project will evolve through a phased approach, prior to organizations making a final commitment to the amount of funding required. We accept the phases for the project, as described below:

1. A minimum funding contribution of \$1,000.00 is required to become a NWOOP 2022 participant. No funding is required until the agreements have been finalized.
2. Organizations provide MNRF with a Letter of Intent to Commit Funding, along with an Esri shapefile outlining their area(s) of interest, using the NWOOP2022 tile index. **(Deadline – October 6, 2021)**
3. MNRF will use the shapefiles provided by each organization, apply the funding model (based on the value of the accepted contract for the acquisition), and

provide all organizations with the calculated cost for their portion of the project area.

4. Organizations will then accept their funding commitment or decide not to participate in the shared cost project, by notifying the MNRF Project Manager.
5. Upon receipt of acceptance (or withdrawal) from the registered organizations MNRF will rerun the funding model and provide adjusted costs to all participating organizations.
6. Once the final calculations have been completed, and each organization has acknowledged their commitment, a legal agreement will be provided to formalize the funding commitment and participation of each organization.

An ESRI shape file will be provided to the MNRF Mapping and Geomatics Project Manager with the submission of this letter. The ESRI shape file will define the area of interest for <<< **Insert Organization Name** >>> so that it can be used to calculate the shared costs required for the project.

Provided that sufficient funding has been committed by October 6, 2021, to complete the entire project, the undersigned agrees to attempt to formalize the funding commitment through the signature of a legal agreement after the acquisition (flight) to conclude June 2022. If funding for the entire project is insufficient, a meeting will be held to determine whether to limit the scope of the project (extent or products), cancel the project, or seek additional funding. In the event that the scope of the project is limited, the commitment above will be reconsidered.

This arrangement presents a unique opportunity for public and private sector organizations to collaborate in a project of this magnitude in order to satisfy a wide variety of business needs. We look forward to seeing this project realized and offer our support in the goals and objectives of developing this partnership.

Sincerely,

<<<**Name**>>>

<<<**Position**>>>

<<<**Organization**>>>

<<<**Phone#:**>>>

<<<**E-mail Address:**>>>