



ASSET INVENTORY REPORT

2024



Prepared by CE Strategies

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INTRODUCTION

Project Background

CE Strategies (CES) partnered with Grand Council Treaty #3 on a 911 & Infrastructure Mapping project to protect and identify existing systems and structures within Treaty #3 communities and to draw attention to any gaps in emergency services. As part of this project, an infrastructure inventory serves as a vital resource, supplying essential information to empower communities in implementing highly effective and efficient emergency management strategies. The asset inventory plays a crucial role for Treaty #3 to provide a more comprehensive approach to asset management and planning.

Purpose of the Asset Inventory

A comprehensive inventory of infrastructure is vital when making informed decisions about future development and investment opportunities, in addition to supporting day-to-day community operations. Understanding what currently exists on the land will allow planning teams to better understand gaps and tailor planning to the specific needs and characteristics of the community.

In addition to building internal capacity for understanding and managing community infrastructure, an asset inventory will:



Assist with planning and decision-making



Establish gaps & prioritize direction



Centralize data on existing structures



Present data in an accessible format

This document highlights existing infrastructure with the assistance of maps to visualize their locations. Additionally, all collected GIS data, hard copy maps and digital maps will be provided to the community and are property of Wabauskang First Nation (WFN).

Methodology

A vast amount of data was acquired and processed to complete this inventory. Field collection techniques were combined with data input and analysis to produce a comprehensive database of assets within WFN's reserve lands. The following outlines the steps involved during this study:

1. INFORMATION GATHERING

Relevant files, maps, and plans were gathered and used as a foundation for the inventory.

2. FIELD DATA COLLECTION

GPS points and photos of assets were documented, and drone imagery collected.

3. DATA COMPILATION

Existing documents and field data were digitized and processed into a database.

4. REPORT CREATION

Data was compiled into an online GIS, asset maps created, and a report was generated.



COMMUNITY OVERVIEW

Community Profile

The community of Wabauskang First Nation (WFN) is a signatory to Treaty #3 and the community member have inhabited northwestern Ontario since time immemorial. The community is situated near Ear Falls, Ontario off of Highway 105 and is approximately 67 kilometers north of Dryden. The community resides along the shores of Wabauskang Lake and is approximately 32.5 square kilometers in size.

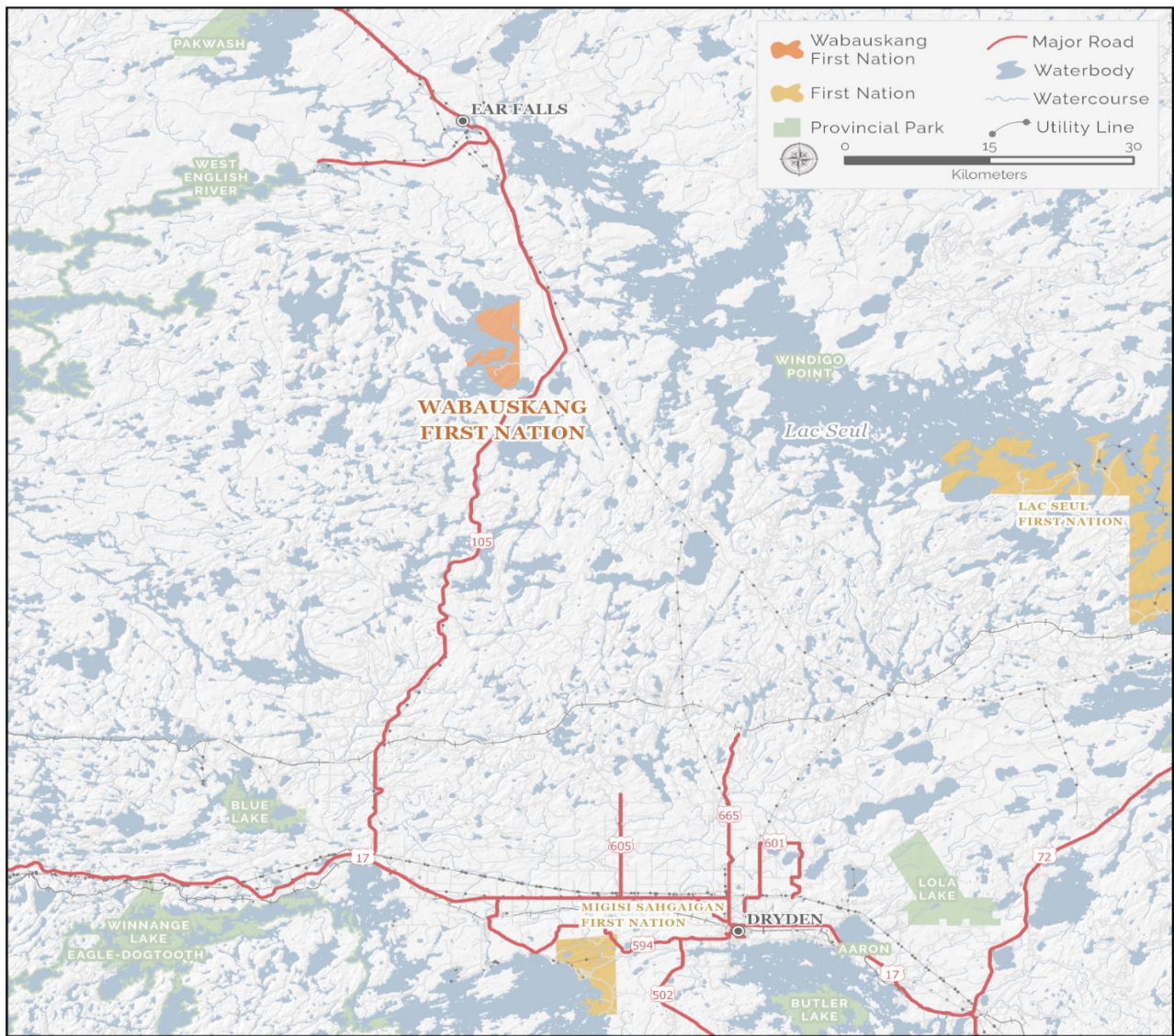


Figure 1 Community Location Map

Demographics

The people who reside in WFN have participated in several censuses over the past two decades. Census information was sourced from Statistics Canada for the years 2006 and 2016. It is important to note, that this information may not be comprehensive and may contain gaps due to its source.

Total Registered Population

The registered population of WFN is 392, which is broken down further below. These values are accurate as of August 2024.

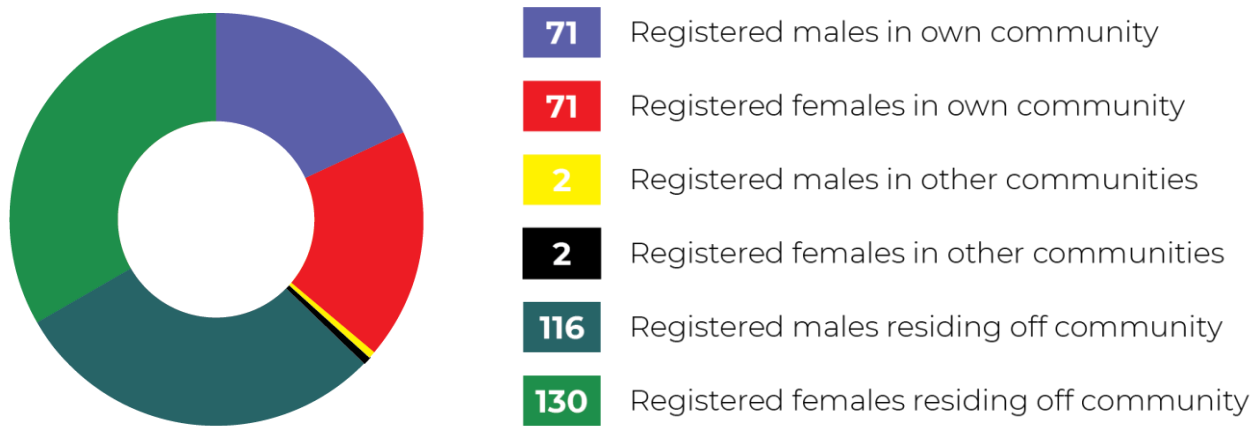


Figure 2: Total Registered Population

Population Living in Community

Based on the census data, the population residing in the community has fluctuated in the past decade. In 2016, the community saw a 23% decrease in its population, dropping from a total of 85 members in 2006 to 65 members almost a decade later. However, since then there has been a steady increase in membership as the updated registered population count states that 142 people are currently living on reserve land.

Based on the census data, there is a noticeable shift over time as the population ages. Between 2006 and 2016, there was a 28.57% decrease in members aged 0-19 and a 12.5% decrease in members aged 20-64. The number of members aged 65 and over during these years stayed the same. These changes increased the median age from 24.8 in 2006, to 33.6 in 2016.¹ The charts below illustrate this change:

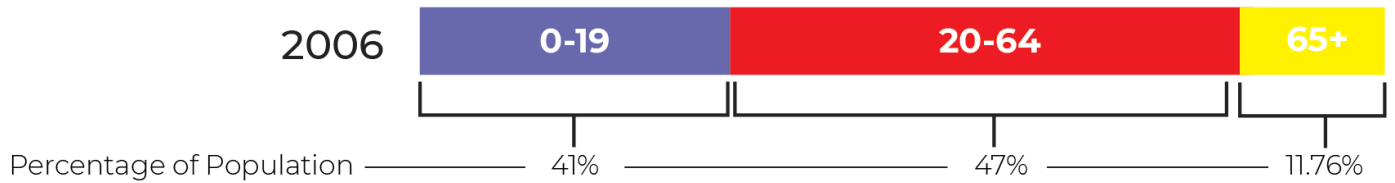


Figure 3: Percentage of Population 2006

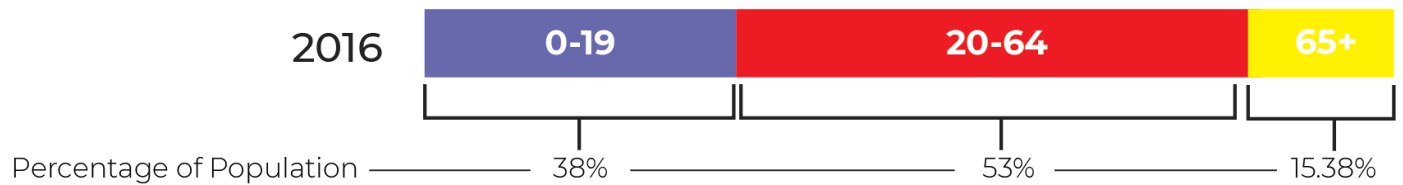


Figure 4: Percentage of Population 2016



INFRASTRUCTURE INVENTORY

Overview

Wabauskang First Nation is home to a healthy and active community who enjoy modern amenities while staying in touch with their history and traditional ways of life.

All buildings, land assets, and utilities within WFN have been mapped via GPS point data collection and drone surveying. Photos of all assets were taken during field work and have been attached to their respective GPS points in the database which continues to be updated as community input is provided.

All community infrastructure has been summarized in the sections to follow. Tabular information for each asset can be provided upon request or can be accessed and downloaded through the community's MapAki portal.

Community Overview Map

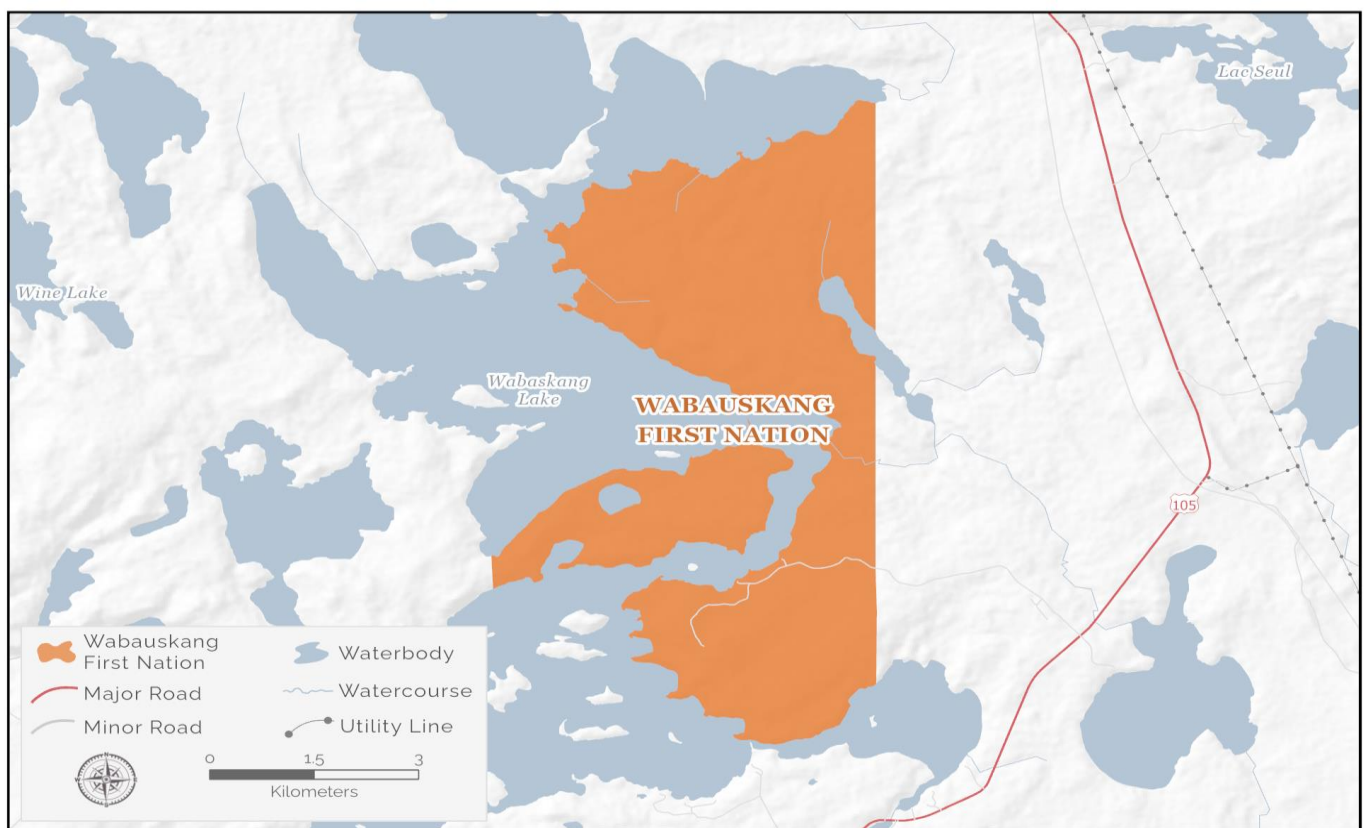


Figure 5: Community Overview Map

Buildings

In total, **58 buildings** were assessed in the inventory. Within the final database, these buildings have been organized by a residential or non-residential status, in addition to descriptions and other relevant information. There is opportunity in the database to further assign attributes regarding addressing information, house residents, year of build, etc.

Community Buildings

There were **18 non-residential buildings** that were assessed within WFN's reserve, including community, commercial, and industrial structures. It is important to note that the Jam Plant is no longer used for canning and preserving but is currently a warehouse.



1 Band Office



1 Pump House



1 Community Hall



1 Old Jam Plant (warehouse)



1 Youth Centre



1 Prevention Services Center



1 Water Treatment Plant



10 Sheds



1 Garage

Residential Buildings

There were **40 residential buildings** assessed within WFN. These included single family residences, new builds and duplexes. Storage structures such as sheds and garages were also mapped and spatially joined to their respective residential home.



29 Single Family Residences



4 Duplex Units



7 New Builds

-  Non-Residential Building
-  Single Family Residence
-  Multi-Family Residence
-  Forested Area
-  Waterbody

0 75 150
Meters



Figure 6: Buildings Map



Land Assets

There were **14 land assets** mapped during the inventory, including cultural features and recreational sites. Below is a breakdown of the land assets within WFN's reserve boundaries:



1 Skating Rink



1 Cemetery



1 Playground



1 Pavillion



7 Propane Tanks



1 Property Bar



1 Stand-Pipe



1 Community Garden

Graveyard

Within the community, there is once cemetery that holds burial sites of members who have passed on. This site is located off of Main Road and is just outside of the residential area.

Recreational Areas

WFN encourages recreational activities and time spent outside by offering a playground located centrally amongst the residential area within the reserve boundary. It has features such as swings, benches, slides as well as a climbing structure. Directly across the street from the playground is a secondary recreation area that is currently used as a skating rink in the winter months.

The community also has a small garden located near the old Jam Plant.





	Hydro Pole		Graveyard		Building
	Propane		Playground		Road
	Stand-Pipe		Rink		Forested Area
	Property Bar		Garden		Waterbody

0 75 150
Meters

Figure 7: WFN's Land Asset Map



Utilities

Within the asset inventory, **287 utility assets** were mapped. These assets include infrastructure related to electricity such as hydro poles, as well as those related to water maintenance and servicing such as culverts, sewers, fire hydrants, curb side water valves and the main water line. All water line and septic information was collected by Superior Locates and incorporated into this report.



38 Hydro Poles



14 Fire Hydrants



25 Culverts



77 Septic Tank Lids



16 Storm Sewers



40 Septic Fields



2 Sanitary Sewers



72 Water Valves



3 Manholes

Hydro

Visible hydro pole locations have been mapped via high resolution drone imagery. Wabauskang First Nation is connected to an off-reserve grid, operated by Hydro One Network Inc., and has power throughout the community. Within the community, there are **38 hydro poles**.

Water

Wabauskang First Nation operates its own water system. Domestic water is drawn from Wabauskang Lake and follows the main water line to the water treatment plant, where it is carefully treated and declared safe for residents to drink.

There were also **25 culverts** mapped within the community, **16 storm sewers** and **72 water valves**. The water valves total is a combination of curbstops and main water valves. It is important to note that some valves may have been missed due to over-growth, obstacles, or obstructions. In some cases, valves that were not visible were able to be located with a metal detector. Additionally, **14 fire hydrants** were mapped around the community,

Waste Disposal

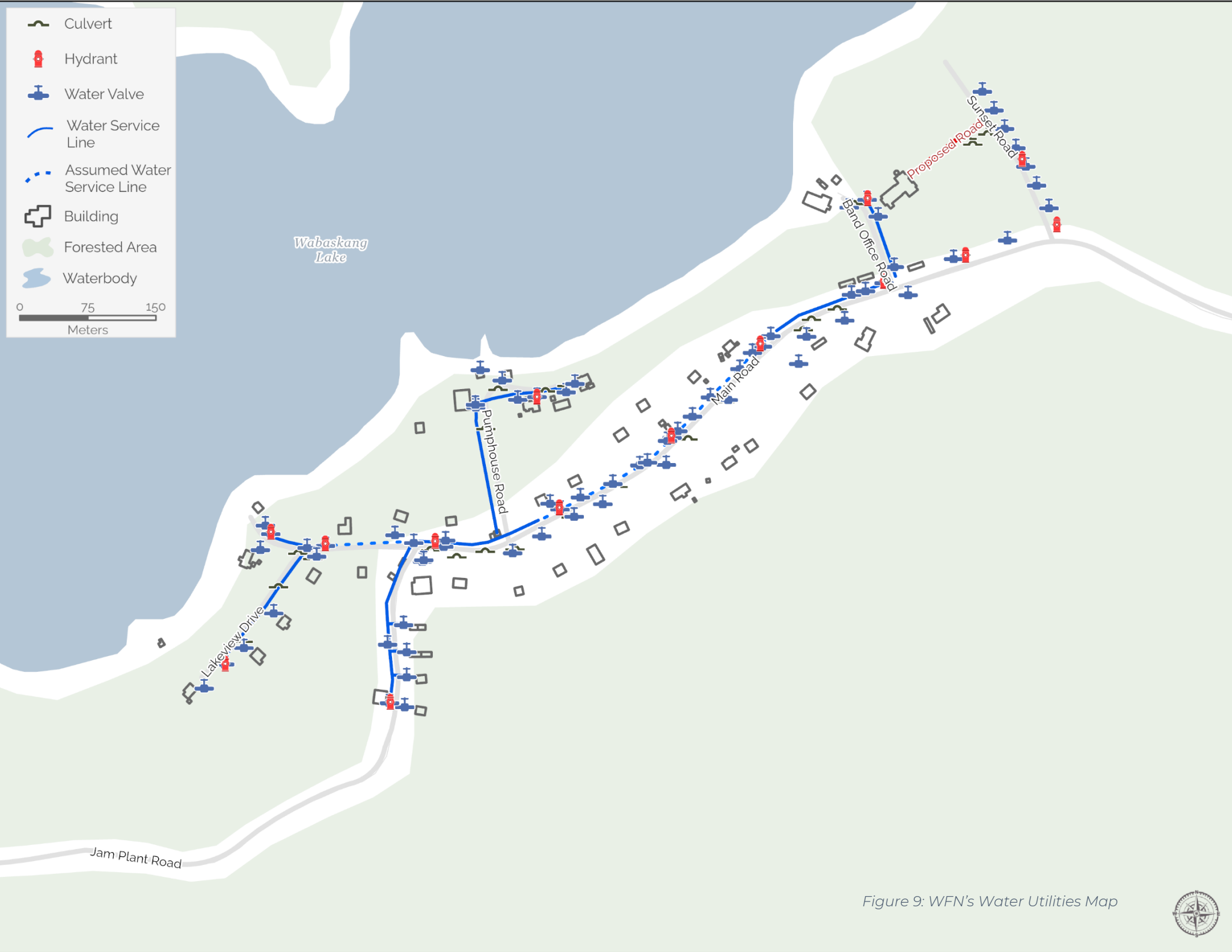
Wabauskang First Nation relies on a septic system as their method of wastewater management. Every home and building in the community operate with a septic system. **40 total septic fields** were documented in the community with sanitary main lines connecting the building to the septic system on 149 Main Road, 151 Main Road, 2 Jam Plant Road, as well as a system connecting 4 houses along Jam Plant Road to one septic field.













Figure 8: WFN's Waste Utilities Map





-  Culvert
-  Hydrant
-  Water Valve
-  Water Service Line
-  Assumed Water Service Line
-  Building
-  Forested Area
-  Waterbody

0 75 150
Meters

Figure 9: WFN's Water Utilities Map



TRANSPORTATION

Roads

Highway 105 is the main access to Wabauskang First Nation. From Vermillion Bay (Hwy 17) it is about 76.5 kilometers drive down to the Main Road turnoff. Main Road is WFN's primary access road and runs straight through the community. The community also has five other secondary roads: Band Office Road, Jam Plant Road, Lakeview Drive, Pumphouse Road and Sunset Road. Additionally, there are two proposed roads within the reserve boundary and as of 2024, Sunset Road is still under construction.

Community members do not have access to any grocery stores or gas stations within the reserve boundaries. The closest town that offers these conveniences is about 36 kilometers away in Ear Falls². Otherwise, WFN community members must travel 117 kilometers to Dryden where they can access a larger variety of city services including healthcare and emergency care services.

Airways

There is no airport located within the community, however, there is an airport located 13 kilometers northwest of Ear Falls which community members can easily access if needed³. For access to an international airport, community members must drive approximately 389 kilometers to Winnipeg.

Waterways

Wabauskang First Nation is located on the shores of Wabauskang Lake. Water access is easily available for the community by using the boat launch located by the pumphouse near the water treatment plant, or from docks along Lakeview Drive.

MAPAKI



ACCESS. MANAGE. VIEW.

Using a survey grade drone and high-accuracy GPS, spatial data was collected on infrastructure such as buildings, roads, curb stops, water lines, hydrants, and more. Once the in-field data collection had been completed, everything was consolidated into MapAki, an online GIS database. MapAki combines spatial data of WFN's community assets with supporting information and media, to provide a comprehensive overview of your infrastructure in one accessible location.

Integrating MapAki

In addition to the static maps created for this report, WFN has been provided with secure access to their data via MapAki, an interactive map that allows users to access and interact with their data. This digital map supports quick and informed decision-making that is critical to planning success. In addition to providing detailed statistics on your assets, MapAki has custom-built tools that can be used to query, measure, and analyze the proximity of features. Having access to this information promotes a broad awareness of your community infrastructure and can be essential in future planning.



Accessing Your Database

Once you access your map using the **URL** and **passcode** that was provided to you, the map will be centered on your community. To navigate the map, you can simply click and drag it using your mouse or scroll pad. To zoom in, use your scroll bar, or make a pinch motion on your touchscreen device.

The map **legend** is in the bottom right corner of MapAki. It highlights all the available data layers in the map using icons, and shows which layers are visible in your map with a checked box. Layers can be turned on and off. Along the left side of the legend, there are a variety of icons that represent different **tools** that can be used to further explore your data for quick and easy analysis.

In addition to all collected GIS data on MapAki, hard copy maps produced in the project will be provided to the community and become **property of WFN**.

GLOSSARY

Asset: We have defined an asset in this report as any physical structures or infrastructure above or underground, developed land areas, or culturally sensitive areas.

Dataset/Database: Any collection of data.

GPS: Global Positioning System. A satellite based navigational system that provides location and time of anywhere on the Earth.

MapAki: Web-based data viewer created by CE Strategies. It allows users to view all their spatial data in a map format. Users can log in securely and view community information, create their own data, print maps, view photos and review documents, from any computer at any time.

Spatial Data: Any data that can be represented by a location, size and shape of an object on the earth. For example, a building, lake, river, road, etc.

Spatial Join: Matching data based on their relative spatial locations.

REFERENCES

- ¹*Crown-Indigenous Relations and Northern Affairs Canada* (2024, May 03) Government of Canada. Retrieved September 25, 2024, from https://fnp-ppn.aadnc-aandc.gc.ca/fnp/Main/Search/FNRegPopulation.aspx?BAND_NUMBER=191&lang=eng
- ² *Health Services* (n.d) The Township of Ear Falls. Retrieved September 25, 2024, from <https://ear-falls.com/residents/community-services/health-services/>
- ³*Wabauskang First Nation*. (2023, September 07). Northwest Health Line. Retrieved September 25, 2024, from <https://www.northwesthealthline.ca/displayservice.aspx?id=152846#:~:text=Location%3A,E%20shores%20of%20Wabauskang%20Lake>