



# RADIOCOMMUNICATION SYSTEM IMPACT STUDY

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## Overview

Natural Forces (the Proponent) is proposing to develop a wind energy project in West Hants, NS, consisting of up to 28 wind turbines. This project is called the Benjamins Mill Wind Project (the Project), and it will produce up to 150 MW of renewable energy. The purpose of this report is to determine any potential impacts the Project may have on nearby radiocommunication and radar systems infrastructure.

## Background

This study was conducted using the Radio Advisory Board of Canada and CanWEA (RABC-CanWEA) “Technical Information and Coordination Between Wind Turbines and Radiocommunication and Radar Systems” (2020). Wind turbines have the capacity to have a negative effect on neighbouring radiocommunication and radar systems through interference. By conducting this study early on in the development of the Project, these impacts can be better understood and appropriately mitigated.

The RABC-CanWEA guidelines (2020) provide the recommended consultation areas for each type of tower. The consultation zone is the area within which a project Proponent must consult with the radiocommunication service provider to ensure appropriate mitigation of any potential interference impacts. In addition to consultation zones around each tower, these guidelines also provide information on point-to-point (PTP) communication towers, which require more complex consultation zones along the PTP link according to the distance between towers and the Fresnel zone.

The location of the radiocommunication towers near the Project site can be determined by using Innovation, Science, and Economic Development’s (ISED, previously Industry Canada) Spectrum Direct tool, which provides the geographic coordinates of all radiocommunication and radar systems in the country. This download tool provides all of the information that is relevant to and necessary for conducting this interference study.

The following are the steps recommended by the RABC-CanWEA guidelines:

1. The wind project proponent develops a map showing the location of the proposed wind farm, to the extent that this information is available at that time. The proponent obtains and provides preliminary information for the proposed project, including project area coordinates, representative machine and proposed number of wind turbines.
2. The proponent sends notices of consultation with the proposed wind farm location and preliminary project information to all mandatory contacts operating non-disclosed systems. These mandatory contact agencies will respond in a timely fashion, no more than 21 days after initial contact.
3. The proponent determines whether any of the consultation zones for disclosed systems overlap/intersect the proposed project area, as described by these guidelines.
4. In the event that the guidelines or mandatory consultation contacts indicate that a given installation is located within a consultation zone, the proponent contacts the applicable authority/owner of the disclosed or non-disclosed systems to determine if,

in fact, further investigation is warranted. The owners of disclosed or non-disclosed systems will respond to the proponent in a timely fashion, no more than 60 days from when the proponent first contacts the owners of respective disclosed or non-disclosed systems.

5. The proponent and applicable authority/owner of the disclosed or non-disclosed systems undertake the necessary studies and identify mitigation measures to resolve the issue to the satisfaction of both parties. The wind project proponent develops a map showing the location of the proposed wind farm and all the wind turbines within it. (RABC-CanWEA 2020).

In this study, Natural Forces followed these recommended steps. The methodology that was employed can be found detailed below, along with the findings of this internal study.

## Methodology

The following steps were conducted for the radiocommunication system impact analysis:

1. Once the preliminary turbine locations were determined, all relevant federal agencies (Navigation Canada, Transport Canada, Department of National Defense, Environment and Climate Change Canada, the Royal Canadian Mounted Police, and the Canadian Coast Guard) were contacted to consult on the proposed turbine locations to ensure that minimal interference would result from the Project.
2. The location of all nearby radiocommunication and radar systems were downloaded from the ISED website. This was done by inputting the geographic coordinates for the centre of the proposed Project site and selecting a frequency range of 1-1000000 MHz to cover all possibilities in the area. The resulting list is attached in Appendix A.
3. The various radiocommunication systems that could be near the Project were selected, along with the fields necessary for the analysis (tower ID, frequency, channel type, height above ground level, latitude/longitude, station location, in-service date, and licensee name).
4. The latitude/longitude points were used to spatially display the locations.
5. The PTP towers were paired by matching the towers' Licensee Name and frequency. Once displayed spatially, these towers were connected using polylines. The consultation zone radius was determined using the equation provided by RABC-CanWEA (equation can be seen below in the Findings section). Once the size of the consultation zone was calculated, it was mapped.
6. For all of the other tower types (non-PTP), the appropriate consultation zone was created according to the RABC-CanWEA guidelines.
7. Once all of these consultation zones were mapped, they were mapped with the preliminary turbine locations to determine whether any of the towers were sited within any of the consultation zones.

## Inputs

Figure 1 shows the location of the Project and Figure 2 shows the boundaries of the Project site with the preliminary turbine locations. The characteristics of the wind turbine models under

consideration can be found in Table 1. For the purposes of this analysis, a rotor diameter of 160 m was used in the PTP links calculation.

**TABLE 1: CHARACTERISTICS OF PROPOSED TURBINE MODELS.**

<b>Characteristic</b>	<b>Range based on several proposed turbine models</b>
<b>Hub height</b>	100-131 m
<b>Rotor Diameter</b>	138-170 m
<b>Ground to blade tip height</b>	170-200 m



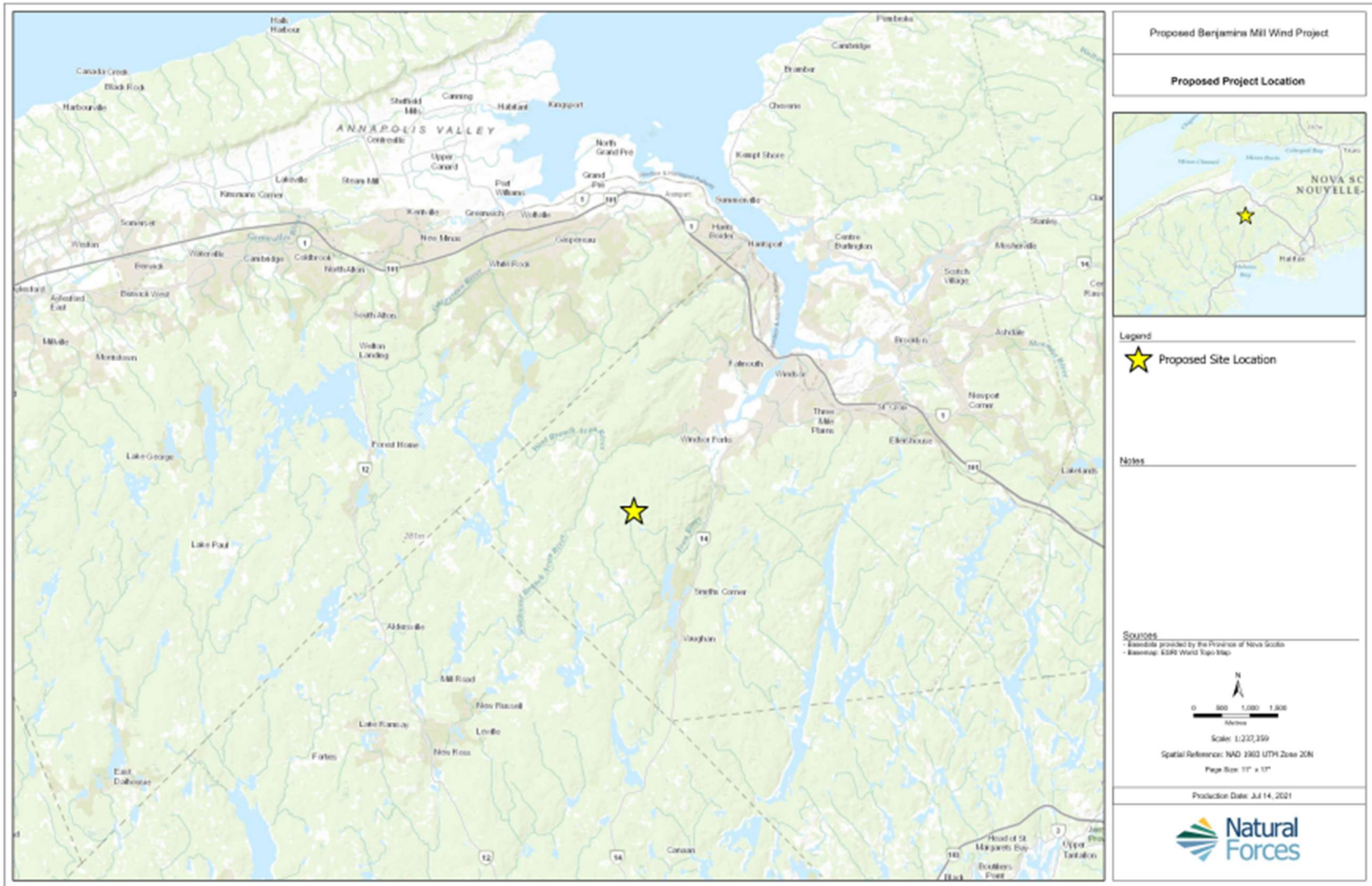


FIGURE 1: PROJECT LOCATION



**FIGURE 2: PRELIMINARY PROJECT LAYOUT AND PROJECT BOUNDARIES**



# Findings and Analysis

## Consultation with Federal Agencies

Following the RABC/CanWEA guidelines (2020), the necessary federal agencies were consulted for the Project. All of the contacts have provided the necessary approvals, which are listed in Table 2. The formal approval letters from NavCan and the Department of National Defence are attached in Appendix B. The completed Transport Canada assessment form requiring day and night marking/lighting protection is attached in Appendix C.

**TABLE 2: SUMMARY OF FEDERAL AGENCIES CONSULTED AND STATUS OF APPROVAL.**

Agency	Approval Required	Status
Transport Canada	Aeronautical Assessment Approval	Approved February 2021
Navigation Canada	Land Use Approval	Approved June 2021
Department of National Defence	Letter of Non-Objection	Approved October 2021
Royal Canadian Mounted Police	Letter of Non-Objection	Approved February 2021
Canadian Coast Guard	Radiocommunication Layout Authorization	Approved January 2021
Environment Canada	Radiocommunication Layout Authorization	Approved March 2021

## Point-to-Point Systems

According to the RABC/CanWEA guidelines (2020), the consultation zone for both the transmit and receive locations is 1 km. For the link between PTP towers, the consultation zone was calculated using the following equation:

$$L_c = R + 52\sqrt{\frac{D}{F}}$$

Where:

L<sub>c</sub> = diameter of the consultation zone (m)

R = rotor diameter of wind turbine (m)

D = distance between transmit and receive towers (km)



F = frequency of communications between transmit and receive towers (GHz).

For this Project, 160 m was used for R to reflect the most likely rotor diameter to be used for the Project. The consultation zone radius was calculated and applied to the PTP tower links based on the information from the ISED database. The links that crossed or came near the Project were noted and mapped with the preliminary turbine locations, as can be seen in Figure 3 and 4.

Table 3 shows the calculated radii of the consultation zones for these PTP links.

**TABLE 3: PTP LINKS NEAR THE PROJECT SITE AND THEIR CONSULTATION ZONE RADII**

Station Location	Owner	Frequency (GHz)	Path Length	Consultation Zone Radius
Hemlock Hill	Nova Scotia Power	7.130	~14.5 km	~117.0 m
South Canoe Lake	Nova Scotia Power	7.130		
Hemlock Hill	Nova Scotia Power	7.325	~22.6 km	~126.2 m
Newtonville	Nova Scotia Power	7.325		
Hemlock Hill	Nova Scotia Power	9.342	~12.0 km	~109.4 m
Mill Section	Nova Scotia Power	9.342		

Wind turbines that are outside the consultation zones are not expected to negatively impact the Project. Since no turbines are sited within these consultation zones, no interference is anticipated and no additional consultation is required.

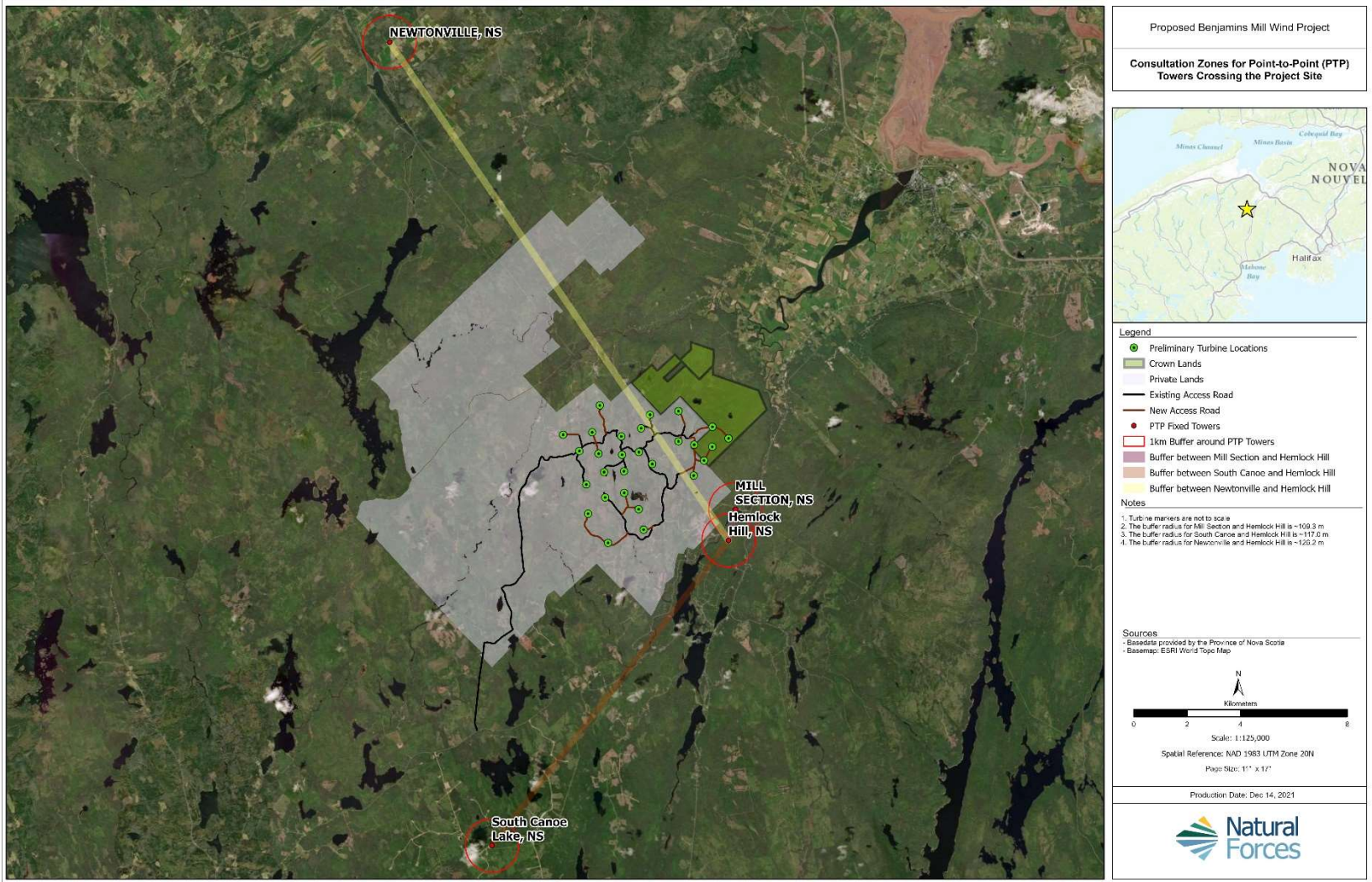


FIGURE 3: PTP LINKS AND CONSULTATION ZONES





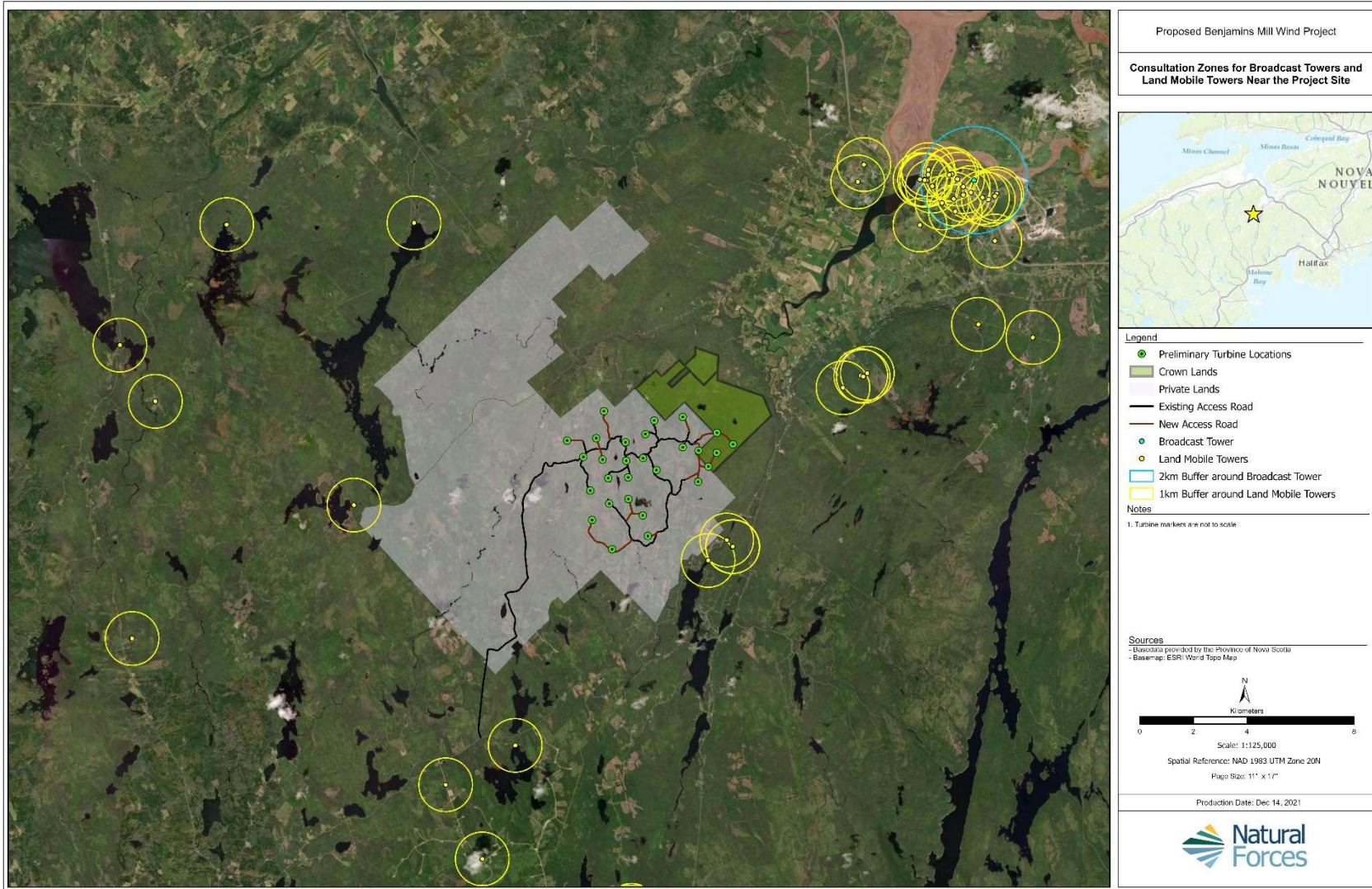
FIGURE 4: CLOSER LOOK AT THE PTP LINKS AND CONSULTATION ZONES

## **Broadcast and Land Mobile Towers Cellular Towers**

The RABC/CanWEA guidelines (2020) recommend 1 km consultation zone around land mobile towers, and a 2 km consultation zone around broadcast towers. The closest broadcast and land mobile towers to the Project site can be seen in Figure 55.

Wind turbines that are outside the consultation zones are not expected to negatively impact the Project. Since no turbines are sited within these consultation zones, no interference is anticipated and no additional consultation is required.





**FIGURE 5: BROADCAST AND LAND MOBILE TOWER CONSULTATION ZONES**

## Closure

The findings of this study indicate that little to no interference will result from the proposed Project. This analysis was done in consultation with the RABC/CanWEA guidelines on electromagnetic interference. Additionally, all of the federal agencies contacted have confirmed that the Project is expected to have no negative impacts on these radiocommunication and radar systems. These findings will be regularly consulted throughout the development and construction of the Project to continually ensure that the Project does not have any negative impacts on radiocommunication and radar systems.

## References

- Innovation, Science, and Economic Development (ISED) Canada. (2021, September 02). *Spectrum Management System - Geographical Search*. From Government of Canada: <https://sms-sgs.ic.gc.ca/frequencySearch/searchByGeographicArea?execution=e1s1>
- Radio Advisory Board of Canada (RABC) and Canadian Wind Energy Assotiation (CanWEA). (2020). *Technical Information and Coordination Process Between Wind Turbines and Radiocommunication Radar Systems*. RABC and CanWEA.

## **Appendix A: List of all nearby radiocommunication and radar systems**

## Fixed (Point-to-Point) Towers

Tower ID	Channel Type	Frequency [MHz]	Channel	Station location	Latitude (WGS84)	Longitude (WGS84)	Authorization number	Licensee name
FT-NSP6	RX_RES : null	934.2	E9	HEMLOCK HILL, NS	44.87111111	-64.225	010877171-001	NOVA SCOTIA POWER INC
FT-NSP7	TX_RES : null	934.2	E9	MILL SECTION, NS	44.88166667	-64.22194444	010877171-001	NOVA SCOTIA POWER INC
FT-NSP6	RX_RES : null	7130	C1	South Canoe Lake, NS	44.76702778	-64.33475	010100971-001	NOVA SCOTIA POWER INC
FT-NSP5	RX_RES : null	7150	C3	Newtonville, NS	45.03722222	-64.38972222	010070436-001	NOVA SCOTIA POWER INC



## Broadcast Towers

Tower ID	Channel Type	Frequency [MHz]	Channel	Height above ground level [m]	Station location	Latitude (WGS84)	Longitude (WGS84)	In-service date	Licensee name
BT-MBS1	TX_RES	1.45	1450	51.72413793	Windsor	44.99527778	-64.11361111	2011-07-14T00:00:00-04:00	Maritime Broadcasting System Limited

## Land Mobile Towers

Tower ID	Channel Type	Frequency [MHz]	Channel	Height above ground level	Station Location	Latitude (WGS84)	Longitude (WGS84)	In Service Date	Licensee Name
LM-NSP2	TX_RES: null	157.47		43.5	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	RX_RES: null	157.47 0		2	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	TX_RES: null	158.25		2	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	RX_RES: null	158.25 0		43.5	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	TX_RES: null	164.76		43.5	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	RX_RES: null	164.76 0		2	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	TX_RES: null	168.9 0		43.5	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP2	RX_RES: null	168.9 0		2	South Canoe, George Bishop Rd, NS	44.76507222	-64.34106667	2018-06-04T00:00:00-04:00	NOVA SCOTIA POWER
LM-OFF1	TX_RES: null	454.65 E372		15	2312 NEW RUSSEL ROAD, NEW ROSS, NS	44.78972222	-64.35888889	2014-09-12T00:00:00-04:00	OXFORD FROZEN FOODS
LM-OFF1	RX_RES: null	454.65 E372		0	SOUTH CANOE WIND FARM, NEW ROSS, NS [Sets: 7]	44.78972222	-64.35888889	2014-09-12T00:00:00-04:00	OXFORD FROZEN FOODS
LM-OFF1	TX_RES: null	454.65 E372		0	SOUTH CANOE WIND FARM, NEW ROSS, NS [Sets: 7]	44.78972222	-64.35888889	2014-09-12T00:00:00-04:00	OXFORD FROZEN FOODS
LM-OFF1	RX_RES: null	459.65 E372'		0	2312 NEW RUSSEL ROAD, NEW ROSS, NS	44.78972222	-64.35888889	2014-09-12T00:00:00-04:00	OXFORD FROZEN FOODS
LM-OFF1	TX_RES: null	459.65 E372'		15	2312 NEW RUSSEL ROAD, NEW ROSS, NS	44.78972222	-64.35888889	2014-09-12T00:00:00-04:00	OXFORD FROZEN FOODS
LM-OFF1	RX_RES: null	459.65 E372'		0	SOUTH CANOE WIND FARM, NEW ROSS, NS [Sets: 7]	44.78972222	-64.35888889	2014-09-12T00:00:00-04:00	OXFORD FROZEN FOODS
LM-NSP3	TX_RES: null	158.97 A375'		9	SOUTH CANOE LAKE, N.S.	44.80333333	-64.32638889	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP3	RX_RES: null	158.97 A375'		9	SOUTH CANOE LAKE, N.S.	44.80333333	-64.32638889	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NRFC1	TX_RES: null	152.33		100	Aldersville, NS	44.83694444	-64.50805556	2021-05-31T00:00:00-04:00	NEW ROSS FIRE COMMISSION
LM-NRFC1	RX_RES: null	157.905 0		100	Aldersville, NS	44.83694444	-64.50805556	2021-05-31T00:00:00-04:00	NEW ROSS FIRE COMMISSION
LM-NRFC1	TX_RES: null	770.19375 AB96		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	770.19375 AB96		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	770.44375 AB116		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	770.44375 AB116		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	770.69375 AB136		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	770.69375 AB136		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	770.94375 AB156		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	770.94375 AB156		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	800.19375 AB96'		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	800.19375 AB96'		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	800.44375 AB116'		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	800.44375 AB116'		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	800.69375 AB136'		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	800.69375 AB136'		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	TX_RES: null	800.94375 AB156'		115	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NRFC1	RX_RES: null	800.94375 AB156'		2	ALDERSVILLE, NS	44.83694444	-64.50805556	2019-03-29T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-NSP4	TX_RES: null	158.97 A375'		3	FALLS LAKE DAM, N.S.	44.86638889	-64.23666667	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP4	RX_RES: null	158.97 A375'		3	FALLS LAKE DAM, N.S.	44.86638889	-64.23666667	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-MDWH1	TX_RES: null	152.63 B697		2	West Hants NS	44.87111111	-64.22527778	2016-05-31T00:00:00-04:00	MUNICIPALITY OF DISTRICT OF WEST HANTS
LM-MDWH1	RX_RES: null	152.63 B697		114	Windsor NS , 76 Morrison Dr.	44.87111111	-64.22527778	2016-05-31T00:00:00-04:00	MUNICIPALITY OF DISTRICT OF WEST HANTS
LM-MDWH1	TX_RES: null	158.205 B697'		2	West Hants NS	44.87111111	-64.22527778	2016-05-31T00:00:00-04:00	MUNICIPALITY OF DISTRICT OF WEST HANTS
LM-MDWH1	RX_RES: null	158.205 B697'		114	Windsor NS , 76 Morrison Dr.	44.87111111	-64.22527778	2016-05-31T00:00:00-04:00	MUNICIPALITY OF DISTRICT OF WEST HANTS
LM-NSP5	TX_RES: null	151.7		2	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	RX_RES: null	151.7		114.3	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	TX_RES: null	153.74 0		2	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	RX_RES: null	153.74 0		114.3	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	TX_RES: null	157.575 0		2	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	RX_RES: null	157.575		114.3	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	TX_RES: null	160.125 0		2	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP5	RX_RES: null	160.125 0		114.3	HEMLOCK HILL, NS	44.87119444	-64.22511111	2020-08-28T00:00:00-04:00	NOVA SCOTIA POWER
LM-NSP6	TX_RES: null	158.97 A375'		6	AVON#2 HYDRO, N.S.	44.87333333	-64.22805556	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP6	RX_RES: null	158.97 A375'		6	AVON#2 HYDRO, N.S.	44.87333333	-64.22805556	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP7	TX_RES: null	158.97 A375'		3	DEAN CHAPTER LAKE, N.S.	44.88305556	-64.40444444	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP7	RX_RES: null	158.97 A375'		3	DEAN CHAPTER LAKE, N.S.	44.88305556	-64.40444444	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-MCK1	TX_RES: null	143.625 0		0	KENTVILLE EMO KINGS CO. N.S.	44.91666667	-64.49916667	1989-10-10T00:00:00-04:00	MUNICIPALITY OF THE COUNTY OF KINGS accts payable Theresa Mahoney
LM-MCK1	RX_RES: null	148.885		0	KENTVILLE EMO KINGS CO. N.S.	44.91666667	-64.49916667	1989-10-10T00:00:00-04:00	MUNICIPALITY OF THE COUNTY OF KINGS accts payable Theresa Mahoney
LM-NSL1	TX_RES: null	451.0875 E87		0	WINDSOR, NS, MOUNT MARTOCK [Sets: 20]	44.925	-64.17416667	2012-10-30T00:00:00-04:00	NOVA SKI LIMITED
LM-NSL1	RX_RES: null	456.0875 E87		0	WINDSOR, NS, MOUNT MARTOCK [Sets: 20]	44.925	-64.17416667	2012-10-30T00:00:00-04:00	NOVA SKI LIMITED
LM-MBPP1	TX_RES: null	407.7875 A68		14	ST. CROIX, NS, SALMON HOLE DAM	44.92611111	-64.03583333	1998-05-26T00:00:00-04:00	MINAS BASIN PULP AND POWER CO. LTD.
LM-MBPP1	RX_RES: null	407.7875 A68		14	ST. CROIX, NS, SALMON HOLE DAM	44.92611111	-64.03583333	1998-05-26T00:00:00-04:00	MINAS BASIN PULP AND POWER CO. LTD.
LM-MBPP1	TX_RES: null	407.7875 A68		13	ST. CROIX, NS, SALMON HOLE DAM	44.92611111	-64.03583333	1998-05-26T00:00:00-04:00	MINAS BASIN PULP AND POWER CO. LTD.
LM-MBPP1	RX_RES: null	407.7875 A68		13	ST. CROIX, NS, SALMON HOLE DAM	44.92611111	-64.03583333	1998-05-26T00:00:00-04:00	MINAS BASIN PULP AND POWER CO. LTD.
LM-DO11	TX_RES: null	773.18125 AB335		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	773.18125 AB335		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	773.43125 AB355		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	773.43125 AB355		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	773.68125 AB375		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	773.68125 AB375		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	773.93125 AB395		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	773.93125 AB395		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	774.18125 AB415		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	774.18125 AB415		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	803.18125 AB335'		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	803.18125 AB335'		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	803.43125 AB355'		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	803.43125 AB355'		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	803.68125 AB375'		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	803.68125 AB375'		99	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	TX_RES: null	803.93125 AB395'		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO11	RX_RES: null	803.93125 AB395'		0	MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office

LM-DO1	RX_RES : null	803.93125 AB395'	99 MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO1	TX_RES : null	804.18125 AB415'	0 MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-DO1	RX_RES : null	804.18125 AB415'	99 MARTOCK, NS	44.92888889	-64.16472222	2017-08-23T00:00:00-04:00	NS Dept. of Internal Services Public Safety & Field Comm. Office
LM-TWFD1	TX_RES : null	151.46	76 MARTOCK (MTT SITE), NOVA SCOTIA	44.92916667	-64.16583333	2001-06-07T00:00:00-04:00	TOWN OF WINDSOR FIRE DEPARTMENT
LM-TWFD1	RX_RES : null	151.46 0	0 MARTOCK (MTT SITE), NOVA SCOTIA	44.92916667	-64.16583333	2001-06-07T00:00:00-04:00	TOWN OF WINDSOR FIRE DEPARTMENT
LM-TWFD1	RX_RES : null	155.58 0	76 MARTOCK (MTT SITE), NOVA SCOTIA	44.92916667	-64.16583333	2001-06-07T00:00:00-04:00	TOWN OF WINDSOR FIRE DEPARTMENT
LM-TWFD1	TX_RES : null	155.58	0 MARTOCK (MTT SITE), NOVA SCOTIA	44.92916667	-64.16583333	2001-06-07T00:00:00-04:00	TOWN OF WINDSOR FIRE DEPARTMENT
LM-NSL2	TX_RES : null	451.0875 E87	10 WINDSOR, N.S., 370 SKI MARTOCK RD	44.93	-64.16277778	2012-10-30T00:00:00-04:00	NOVA SKI LIMITED
LM-NSL2	RX_RES : null	451.0875 E87	0 WINDSOR, N.S., 370 SKI MARTOCK RD	44.93	-64.16277778	2012-10-30T00:00:00-04:00	NOVA SKI LIMITED
LM-NSL2	RX_RES : null	456.0875 E87'	0 WINDSOR, N.S., 370 SKI MARTOCK RD	44.93	-64.16277778	2012-10-30T00:00:00-04:00	NOVA SKI LIMITED
LM-NSL2	TX_RES : null	456.0875 E87'	0 WINDSOR, N.S., 370 SKI MARTOCK RD	44.93	-64.16277778	2012-10-30T00:00:00-04:00	NOVA SKI LIMITED
LM-NSP8	RX_RES : null	158.97 A375'	15 FOREST HOME, N.S.	44.93527778	-64.51638889	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP8	TX_RES : null	158.97 A375'	15 FOREST HOME, N.S.	44.93527778	-64.51638889	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-DWH1	RX_RES : null	138.105 B7	0 DISTRICT OF WEST HANTS, NS [Sets: 4]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	RX_RES : null	138.105 B7	0 DISTRICT OF WEST HANTS, NS [Sets: 4]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	RX_RES : null	138.105 B7	0 DISTRICT OF WEST HANTS, NS [Sets: 18]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	RX_RES : null	138.105 B7	0 DISTRICT OF WEST HANTS, NS [Sets: 18]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	TX_RES : null	138.105 B7	0 DISTRICT OF WEST HANTS, NS [Sets: 18]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	TX_RES : null	138.105 B7	0 DISTRICT OF WEST HANTS, NS [Sets: 4]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	TX_RES : null	142.095 B7'	0 DISTRICT OF WEST HANTS, NS [Sets: 4]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-DWH1	TX_RES : null	142.095 B7'	0 DISTRICT OF WEST HANTS, NS [Sets: 18]	44.94277778	-64.08472222	2010-10-12T00:00:00-04:00	District of West Hants (EMO)
LM-TOW1	TX_RES : null	406.9875 A36	14 WINDSOR,N.S.,FALL BROOK (W.T.P.#7)	44.94694444	-64.11055556	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW1	RX_RES : null	406.9875 A36	8 WINDSOR,N.S.,FALL BROOK (W.T.P.#7)	44.94694444	-64.11055556	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW1	RX_RES : null	406.9875 A36	14 WINDSOR,N.S.,FALL BROOK (W.T.P.#7)	44.94694444	-64.11055556	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW1	TX_RES : null	406.9875 A36	8 WINDSOR,N.S.,FALL BROOK (W.T.P.#7)	44.94694444	-64.11055556	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-HCH1	RX_RES : null	169.92 A760'	0 WINDSOR, N.S. (INDUSTRIAL PARK)	44.975	-64.10333333	1984-10-17T00:00:00-04:00	HANTS COMMUNITY HOSPITAL
LM-HCH1	TX_RES : null	169.92 A760'	30 WINDSOR, N.S. (INDUSTRIAL PARK)	44.975	-64.10333333	1984-10-17T00:00:00-04:00	HANTS COMMUNITY HOSPITAL
LM-NSP9	TX_RES : null	158.97 A375'	12 LITTLE RIVER LAKE, N.S.	44.97638889	-64.46694444	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP9	RX_RES : null	158.97 A375'	12 LITTLE RIVER LAKE, N.S.	44.97638889	-64.46694444	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP10	RX_RES : null	158.97 A375'	5 BLACK RIVER LAKE, N.S.	44.97805556	-64.37833333	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP10	RX_RES : null	158.97 A375'	5 BLACK RIVER LAKE, N.S.	44.97805556	-64.37833333	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-NSP10	TX_RES : null	158.97 A375'	5 BLACK RIVER LAKE, N.S.	44.97805556	-64.37833333	2011-01-05T00:00:00-05:00	NOVA SCOTIA POWER
LM-TOW2	RX_RES : null	407.9625 A75	14 WINDSOR,N.S.,COLLEGE RD. (#6)	44.98	-64.13888889	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW2	TX_RES : null	407.9625 A75	14 WINDSOR,N.S.,COLLEGE RD. (#6)	44.98	-64.13888889	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW2	TX_RES : null	407.9625 A75	5 WINDSOR,N.S.,COLLEGE RD. (#6)	44.98	-64.13888889	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW2	RX_RES : null	407.9625 A75	5 WINDSOR,N.S.,COLLEGE RD. (#6)	44.98	-64.13888889	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW3	RX_RES : null	407.9625 A75	5 WINDSOR,N.S.,PAYZANT DRIVE (#3)	44.98472222	-64.12222222	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW3	RX_RES : null	407.9625 A75	14 WINDSOR,N.S.,PAYZANT DRIVE (#3)	44.98472222	-64.12222222	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW3	TX_RES : null	407.9625 A75	14 WINDSOR,N.S.,PAYZANT DRIVE (#3)	44.98472222	-64.12222222	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW3	TX_RES : null	407.9625 A75	5 WINDSOR,N.S.,PAYZANT DRIVE (#3)	44.98472222	-64.12222222	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW4	RX_RES : null	407.9625 A75	5 WINDSOR,N.S.,TREMINE CRESCENT (#2)	44.9875	-64.12861111	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW4	RX_RES : null	407.9625 A75	14 WINDSOR,N.S.,TREMINE CRESCENT (#2)	44.9875	-64.12861111	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW4	TX_RES : null	407.9625 A75	5 WINDSOR,N.S.,TREMINE CRESCENT (#2)	44.9875	-64.12861111	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-TOW4	TX_RES : null	407.9625 A75	14 WINDSOR,N.S.,TREMINE CRESCENT (#2)	44.9875	-64.12861111	1997-01-20T00:00:00-05:00	TOWN OF WINDSOR
LM-AVRSB1	RX_RES : null	138.18 B12	14 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	TX_RES : null	138.18 B12	9 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	RX_RES : null	138.45 B30	14 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	TX_RES : null	138.45 B30	9 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	TX_RES : null	138.705 B47	9 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	RX_RES : null	138.705 B47	14 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	TX_RES : null	142.17 B12'	14 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	RX_RES : null	142.17 B12'	9 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	RX_RES : null	142.44 B30'	9 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	TX_RES : null	142.44 B30'	14 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	TX_RES : null	142.695 B47'	14 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB1	RX_RES : null	142.695 B47'	9 WINDSOR, NS, 103 MORRISON DRIVE	44.98888889	-64.10666667	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-BV1	TX_RES : null	452.5375	0 Windsor NS [Sets: 21]	44.98888889	-64.12305556	2018-11-06T00:00:00-05:00	BIOVETRA INC.
LM-BV1	RX_RES : null	452.5375 0	6 Windsor NS	44.98888889	-64.12305556	2018-11-06T00:00:00-05:00	BIOVETRA INC.
LM-BV1	TX_RES : null	457.5375	6 Windsor NS	44.98888889	-64.12305556	2018-11-06T00:00:00-05:00	BIOVETRA INC.
LM-BV1	RX_RES : null	457.5375 0	0 Windsor NS [Sets: 21]	44.98888889	-64.12305556	2018-11-06T00:00:00-05:00	BIOVETRA INC.
LM-DWH2	RX_RES : null	138.105 B7	8 WINDSOR, NS 76 MORRISON ST	44.98944444	-64.10944444	2008-09-22T00:00:00-04:00	District of West Hants (EMO)
LM-DWH2	TX_RES : null	138.105 B7	14 WINDSOR, NS 76 MORRISON ST	44.98944444	-64.10944444	2008-09-22T00:00:00-04:00	District of West Hants (EMO)
LM-DWH2	TX_RES : null	142.095 B7'	8 WINDSOR, NS 76 MORRISON ST	44.98944444	-64.10944444	2008-09-22T00:00:00-04:00	District of West Hants (EMO)
LM-DWH2	RX_RES : null	142.095 B7'	14 WINDSOR, NS 76 MORRISON ST	44.98944444	-64.10944444	2008-09-22T00:00:00-04:00	District of West Hants (EMO)
LM-TOW5	RX_RES : null	406.9875 A36	5 WINDSOR,N.S.,IVEY LANE (#8)	44.99	-64.10361111	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW5	RX_RES : null	406.9875 A36	14 WINDSOR,N.S.,IVEY LANE (#8)	44.99	-64.10361111	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW5	TX_RES : null	406.9875 A36	5 WINDSOR,N.S.,IVEY LANE (#8)	44.99	-64.10361111	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW5	TX_RES : null	406.9875 A36	14 WINDSOR,N.S.,IVEY LANE (#8)	44.99	-64.10361111	2002-10-15T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW6	RX_RES : null	406.9875 A36	10 ALTITUDE VALVE SITE, WINDSOR, N.S.	44.99027778	-64.11861111	2002-10-08T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW6	RX_RES : null	406.9875 A36	14 ALTITUDE VALVE SITE, WINDSOR, N.S.	44.99027778	-64.11861111	2002-10-08T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW6	TX_RES : null	406.9875 A36	10 ALTITUDE VALVE SITE, WINDSOR, N.S.	44.99027778	-64.11861111	2002-10-08T00:00:00-04:00	TOWN OF WINDSOR
LM-TOW6	TX_RES : null	406.9875 A36	14 ALTITUDE VALVE SITE, WINDSOR, N.S.	44.99027778	-64.11861111	2002-10-08T00:00:00-04:00	TOWN OF WINDSOR
LM-AVRSB2	TX_RES : null	138.18 B12	9 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	RX_RES : null	138.18 B12	14 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	RX_RES : null	138.45 B30	27 WINDOR NS, INDUST. PK, IVEY LANE	44.99083333	-64.10277778	2010-12-03T00:00:00-05:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	TX_RES : null	138.45 B30	0 WINDOR NS, INDUST. PK, IVEY LANE	44.99083333	-64.10277778	2010-12-03T00:00:00-05:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	RX_RES : null	138.45 B30	14 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	TX_RES : null	138.45 B30	9 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	RX_RES : null	138.705 B47	14 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	TX_RES : null	138.705 B47	9 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	TX_RES : null	142.17 B12'	14 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD
LM-AVRSB2	RX_RES : null	142.17 B12'	9 WINDSOR, NS, WINDSOR INDUSTRIAL PK	44.99083333	-64.10277778	2011-05-11T00:00:00-04:00	ANNAPOLIS VALLEY REGIONAL SCHOOL BOARD









## **Appendix B: Formal Approvals from NavCan and DND**



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June 17, 2021

Your file  
Benjamins Mill Wind Energy Project  
Our file  
21-0255

Mr. Brenden Blotnicky  
Natural Forces Wind Inc.  
1801 Hollis Street, Suite 1205  
Halifax, NS  
B3J 3N4

**RE: Wind Farm: Wind Turbine(s) - Benjamins Mill, NS  
(See attached document(s))**

Mr. Blotnicky,

NAV CANADA has evaluated the captioned proposal and has no objection to the project as submitted. Our assessment does not constitute an approval and/or permit from other agencies.

The nature and magnitude of electronic interference to NAV CANADA ground-based navigation aids, including RADAR, due to wind turbines depends on the location, configuration, number, and size of turbines; all turbines must be considered together for analysis. The interference of wind turbines to certain navigation aids is cumulative and while initial turbines may be approved, continued development may not always be possible.

In the interest of aviation safety, it is incumbent on NAV CANADA to maintain up-to-date aeronautical publications and issue NOTAM as required. To assist us in that end, we ask that you notify us at least 10 business days prior to the start of construction. This notification requirement can be satisfactorily met by returning a completed, signed copy of the attached form and an Excel copy of the attached spreadsheet by email at [landuse@navcanada.ca](mailto:landuse@navcanada.ca) or fax at 613-248-4094. In the event that you should decide not to proceed with this project or if the structure is dismantled, please advise us accordingly so that we may formally close the file.

If you have any questions, contact the Land Use Department by email at [landuse@navcanada.ca](mailto:landuse@navcanada.ca).

**NAV CANADA's land use evaluation is based on information known as of the date of this letter and is valid for a period of 18 months, subject to any legislative changes impacting land use submissions. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Innovation, Science and Economic Development Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA engineering as deemed necessary.**

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Regards,

Land Use Office  
NAV CANADA

cc ATLR - Atlantic Region, Transport Canada



National Défense  
Defence nationale

1 Canadian Air Division HQ  
PO BOX 17000 STN Forces  
Winnipeg, MB R3J 3Y5

Date of Electronic Signature

Ms. Meg Morris  
Development Manager  
Natural Forces  
1801 Hollis Street, Suite 1205  
Halifax NS, B3J 3N4

### LETTER OF PROJECT NON-OBJECTION NATURAL FORCES

Dear Meg Morris,

Thank you for your patience on this matter and for considering DND radar, airport facilities, and radio-communication systems in your project development process. We have completed the detailed analysis of your proposed site, referenced in NAVCAN Land Use file# 21-0255, the Benjamins Mill Wind Energy Project. The results of the detailed analysis and subsequent technical and operational impact assessments have confirmed there is likely to be minimal or no interference with DND radar, flight operations, and radio-communication systems. Therefore, as a result of these findings we have no objections with your project as submitted. If however, the layout were to change/move, please re-submit that proposal for another assessment

The concurrence for this site is valid for 24 months from date of this correspondence. If the project should be cancelled or delayed during this timeframe please advise the point of contact. It should be noted that each submission is assessed on a case by case basis and as such, concurrence on this submission in no way constitutes a concurrence for similar projects in the same area, nor does it indicate that similar concurrence might be offered in another region. The issuance of this Letter of Non-Objection shall not constitute a waiver or alienation of any existing or future legal rights of the DND/CAF nor shall it be construed to create any exemptions, indemnification, approvals, rights, acceptances in favour of Natural Forces.

DND/CF expressly reserves its rights to take legal action or seek remedy for any and all liability, loss, harm, degradation of services or equipment, litigation costs, damages, judgements or expenses that arise from the adverse effects, whether incidental, indirect or causal, of the referenced NAVCAN Land Use file# 21-0255, the Benjamins Mill Wind Energy Project upon the DND/CAF radars, equipment and its provision of Air Traffic Services.

Canada 



At present DND is working with Transport Canada to make obstruction lighting compliance with Night Vision Goggles (NVG) mandatory. At present DND cannot stipulate that proponents of wind turbine farms utilize NVG compliant lighting. However, as you can imagine, the safety of our aircrews is a top priority, and as such, we ask that you consider lighting your turbines with NVG compliant lighting so that they are visible to pilots during NVG operations.

I trust that you will find this satisfactory. If you have any technical questions or concerns regarding any aspect of this investigation, please contact the undersigned.

Kind regards.

*D.M. Blakely*  
Lieutenant-Colonel  
Senior Staff Officer Aerospace  
Capabilities and Readiness

## **Appendix C: Completed Assessment Form from Transport Canada**



Transport Canada number <b>TC # 2021-016</b>
Applicant number

**AERONAUTICAL ASSESSMENT FORM  
for obstacle notice and assessment**

<b>Owner (company name)</b> Natural Forces Wind Inc		
City <b>Halifax</b>	Province/Territory <b>Nova Scotia</b>	Postal code (A1A 1A1) <b>B3J 3N4</b>
Telephone number (999-999-9999) <b>902-422-9663</b>	Email Address <b>bblotnicky@naturalforces.ca</b>	

<b>Applicant (company name)</b> Natural Forces Wind Inc		
City <b>Halifax</b>	Province/State <b>Nova Scotia</b>	Postal code (A1A 1A1) <b>B3J 3N4</b>
Telephone number (999-999-9999) <b>902-422-9663</b>	Email Address <b>bblotnicky@naturalforces.ca</b>	

Geographic Coordinates  NAD83  NAD27  WGS84      N Latitude deg 44 min 53 sec 37.8  
 For extensive structures submit geographical coordinates separately (e.g. windturbines, transmission lines, building corners).      W Longitude deg 64 min 16 sec 30.36

HEIGHTS	Feet	Metres	Structure alone	Structure with an addition
<b>A</b> Ground Elevation (AMSL)	<b>856</b>	<b>261</b>		
<b>B</b> Height of an addition to a structure				
<b>C</b> Total structure height including B (AGL)	<b>673</b>	<b>205</b>		
Overall height (A plus C) (AMSL)	<b>1,529</b>	<b>466</b>		

Is the location on lands affected by **Airport Zoning Regulations (AZRs)**?  Yes  No  
 Where the object is on lands affected by **AZRs**, a legal survey attesting conformance is required.

Nearest Aerodrome <b>Stanley Airport</b>	Have you contacted the aerodrome? <input type="radio"/> Yes <input checked="" type="radio"/> No
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Description of Project (or attached)  
**Thirty three large scale wind turbine generators with 135 m hub height and 140 m rotor diameter. At this stage, 12 of the 33 turbines are planned. Therefore, Natural Forces is seeking Transport Canada approval of all 33 possible sites.**

Notice of <input checked="" type="radio"/> New Structure <input type="radio"/> Change to existing structure	Duration <input type="radio"/> Permanent <input checked="" type="radio"/> Temporary
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Proposed Construction Date: From (yyyy-mm-dd): 2022-04-30 To (yyyy-mm-dd): 2052-04-30

Applicant Name <b>Brenden Blotnicky</b>	Telephone (999-999-9999) <b>902-880-3445</b>	Date (yyyy-mm-dd) <b>2021-01-15</b>
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**TRANSPORT CANADA ASSESSMENT (Transport Canada use only)**

Marking and lighting required (as per Standard 621)  
 Night Protection  Day Protection  Temporary Lighting  No protection required

**ATS-20-21-00050660**  
**Please note that Transport Canada does not approve the locations, we determine the day and night protection requirements only. I am unable to determine which turbines need day and night protection until such a time as you know which locations you wish to use for installation.**

Completion of this form does not constitute authorization for construction nor replace other approvals or permits.

Transport Canada Civil Aviation Inspector Name <b>Denise Murphy</b>	Date (yyyy-mm-dd) <b>2021-02-26</b>
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Note 1: This assessment expires 18 months from the date of assessment unless extended, revised, or terminated by the issuing office.  
 Note 2: If there is a change to the intended installation, a new submittal is required.