

APPENDIX B

GHG CALCULATIONS

Table 1: Baseline GHG Quantification - Setapuktuk Wind Project

Project # 23-9204

Power Generation via Coal			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Coal	556,295,040	kWh/year	Based on 42% of electricity generated by NSPI in Q1 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Coal Generated Electricity	1.0502	kg CO ₂ e/kWh	[Source: EIA, 2023]
Conversion Factor	0.001	t CO ₂ e/kWh	1 kg = 0.001 Tonnes
Emissions	584,216.04	t CO ₂ e/year	B5*B8*B9
Power Generation via Oil			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Oil	79,470,720	kWh/year	Based on 6% of electricity generated by NSPI in Q1 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Oil Generated Electricity	1.1089	kg CO ₂ e/kWh	[Source: EIA, 2023]
Conversion Factor	0.001	t CO ₂ e/kWh	1 kg = 0.001 Tonnes
Emissions	88,121.29	t CO ₂ e/year	B14*B17*B18
Power Generation via Natural Gas			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Natrual Gas	132,451,200	kWh/year	Based on 10% of electricity generated by NSPI in Q1 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Natural Gas Generated Electricity	0.4374	kg CO ₂ e/kWh	[Source: EIA, 2023]
Conversion Factor	0.001	t CO ₂ e/kWh	1 kg = 0.001 Tonnes
Emissions	57,936.21	t CO ₂ e/year	B23*B26*B27
Power Generation via Wind			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Wind	556,295,040	kWh/year	Based on 42% of electricity generated by NSPI in Q1 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Wind Generated Electricity	0	t CO ₂ e/kWh	
Emissions	0	t CO ₂ e/year	B32*B35
Total Emissions	730,273.55	t CO ₂ e/year	B10+B19+B28

User input data

Compiled data

Table 2: Construction Phase GHG Quantification - Setapuktuk Project

Project # 23-9204

Turbine Transportation			
Parameter/Variable	Value	Unit	Comments
Transportation Vehicle			
Heavy Duty Truck (Diesel)	1 ea		
Distance Travelled	54,050.79 km		From manufacturing facility to Dafeng Port, China and Straight of Canso Superport, Mulgrave, NS, to Wind Turbine Laydowns (includes all the wind turbine components for all wind turbines).
Freight Weight	80.00 tonne		Based on weights provided in NREL's 2015 Report [NREL, 2017]. Estimate of each component; 960 tonnes/12 components
Marine Cargo and Containers (Diesel)	1 ea		
Distance Travelled	1,252,800 km		From Dafeng Port, China, to Straight of Canso Superport, Mulgrave, NS, (includes 54 WT).
Freight Weight	960.00 tonne		Based on weights provided in NREL's 2015 Report [NREL, 2017]. Estimate of each component; 960 tonnes/12 components
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Heavy Duty Truck	132 g CO ₂ e/tonne-km		Converted from imperial to metric units. Source (US EPA, 2025).
Conversion Factor	0.000001 t CO ₂ e/tonne-km		1 g = 0.000001 Tonnes
Emissions	571.62 t CO ₂ e/year		B16*B17*B18*B24*B25
Marine Cargo and Containers (Diesel)	15.1 g CO ₂ e/tonne-km		Freight emissions for calculating GHGs from freight (materials delivery, shipment of product to market, etc.) [Source: GHGenius v5.0d]
Conversion Factor	0.000001 t CO ₂ e/tonne-km		1 g = 0.000001 Tonnes
Emissions	18,160.59 t CO ₂ e/year		B20*B21*B27*B28
Tower Foundation and Pedestal			
Parameter/Variable	Value	Unit	Comments
Concrete Production Quantity	2,036,250 kg		Based on a volume of 905 m ³ (per Wind Turbine Pad) and concrete density of 2,250 kg/m ³
	2,036 tonne		1 kg = 0.001 Tonnes
Concrete Truck	22.00 tonne/truck		Source: Ready Mixed Concrete Association of Ontario, n.d
	93 ea		(B34/B35) Required trucks per Turbine Pad
Turbine Pad Steel	81 tonnes/pad		Based on weights provided by the client
Heavy Duty Truck	38 tonne/truck		No more than 49,500 Gross Vehicle Weight (Assumed unladen weight of 11.5 tonnes)
	3 ea		(B34/B35) Required trucks per Turbine Pad
Concrete/Steel Transportation Distances			
Distance Travelled (freight)	2,145.32 km		Based on one-way trip from Concrete and Steel Supplier to each Wind Turbine Pad
Distance Travelled (no freight)	2,145.32 km		Based on one-way trip from each Wind Turbine Pad to Concrete and Steel Supplier
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Concrete Production	300 g CO ₂ e/kg		0.3 kg CO ₂ e/kg [Source: GHGenius v5.0d].
Concrete Truck (freight)	135 g CO ₂ e/tonne-km		Freight emissions for calculating GHGs from freight (materials delivery, shipment of product to market, etc.) [Source: GHGenius v5.0d].
Concrete Truck (no freight)	1,106 g CO ₂ e/km		Emissions for calculating GHGs where the volume of fuel consumed is unknown but the distance travelled is known [Source: GHGenius v5.0d].
General Steel Production	1.5 t CO ₂ e/tonne		Estimated from the UK's mixture of steel types, excluding stainless steel (Inventory of Carbon & Energy (ICE), Version 2.0).
Heavy Duty Truck (freight)	132 g CO ₂ e/tonne-km		Converted from imperial to metric units. Source (US EPA, 2025).
Heavy Duty Truck (no freight)	837 g CO ₂ e/km		Converted from imperial to metric units. Source (US EPA, 2025).
Conversion Factor	0.000001 t CO ₂ e/g		1 g = 0.000001 Tonnes
Concrete Production Emissions	32,987.25 t CO ₂ e/year		B33*B45*B52*54(WT)
Concrete Truck (freight) Emissions	592.56 t CO ₂ e/year		B35*B36*B42*B47*B53
Concrete Truck (no freight) Emissions	220.66 t CO ₂ e/year		B36*B43*B48*B53
Steel Production Emissions	6,561.00 t CO ₂ e/year		B33*B45*54(WT)
Heavy Duty Truck (freight) Emissions	32.33 t CO ₂ e/year		B39*B40*B42*B51*B53
Heavy Duty Truck (no freight) Emissions	5.39 t CO ₂ e/year		B40*B42*B52*B53
Total Tower Foundation and Pedestal	40,399.19 t CO ₂ e/year		B46+B47+B48
Total Emissions (Construction Phase)	59,131.40 t CO ₂ e		B26+B29+B61

User input data

Compiled data

Table 3: Construction Phase GHG Quantification - Setapuktuk Wind Power Project

Project # 23-9204

Wind Energy			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generation via Wind	1,324,512,000	kWh/year	See Equation
$kWh = 54 \text{ Turbines} \times \frac{8.0 \text{ MW}}{\text{Turbine}} \times \frac{365 \text{ days}}{\text{year}} \times \frac{24 \text{ hours}}{\text{day}} \times 0.35 \times \frac{1000 \text{ kW}}{\text{MW}} = 1,324,512,000 \text{ kWh/year}$			
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Wind Generated Electricity	0	t CO ₂ e/kWh	
Emissions	0	t CO ₂ e/year	B5*B8
Maintenance			
Parameter/Variable	Value	Unit	Comments
Nacelle Components Replacement	11,431	kg/Turbine	15% of Nacelle [Source: Source: Padey et al., 2012, (Number Three Wind LLC, 2018]
Blade Replacement	18,688	kg/Turbine	One Blade [Source: Source: Padey et al., 2012, (Number Three Wind LLC, 2018]
Emission Factors			
Parameter/Variable	Value	Unit	Comments
General Steel	1.5	kg CO ₂ e/kg	Estimated from the UK's mixture of steel types, excluding stainless steel (Inventory of Carbon & Energy (ICE), Version 2.0).
Conversion Factor	0.001	t CO ₂ e/kg	1 kg = 0.001 Tonnes
Emissions	45.18	t CO ₂ e/turbine	(B13+B14)*B17*B18
Total Emissions	2,439.64	t CO ₂ e	B9+B19*54 (WT)

User input data

Compiled data

APPENDIX C

SOUND

OVERVIEW OF INFRASOUND

Infrasound is an inaudible range of low frequency sound between one and 10 Hz generated as a result of large masses/objects in motion. Infrasound is emitted from both natural sources (e.g., wind, oceans) and artificial sources such as road traffic, ventilation systems, and aircrafts (Keith, 2018). Levels of infrasound emitted from large-scale wind turbines attenuate over space as a function of site-specific characteristics (i.e., topography, structures, etc.) and climatic conditions (Rod & Heiger-Bernays, 2012; Schmidt & Klokke, 2014). Generally, frequencies below 100 Hz are attenuated by three dBA over a doubling of distance when downwind of turbines (between distances of 0.3 to 20 km) and six dBA over a doubling of distance when upwind of turbines (between distances of 0.4 to 3 km) (Shepherd & Hubbard, 1991). Health Canada reported that infrasound generated by wind turbines can be measured up to 10 km away, however, in many cases was below background levels (Health Canada, 2014; Keith, 2018).

When evaluating potential effects of infrasound, it is important that these frequencies be discussed in the context of the sound pressure levels, or in other words, the loudness of the sound. Studies show that the lower the frequency of the sound, the louder the sound needs to be in order to be audible/perceived. For instance, very loud sounds at very low frequencies (i.e., 165 dB at 2 Hz, reducing to 145 dB at 20 Hz) may result in pain (Leventhall, 2006) and infrasound has been shown to cause annoyance, when the sound level exceeds the threshold of hearing (i.e., the lowest sound levels that a listener can detect) (HGC, 2010). Further, research shows that to be physically felt, infrasound must exceed 100–110 dB (Ellenbogen et al., 2012). While there is some variation in the literature and between individual sensitivities, there is fairly good agreement on the level of the threshold of hearing among the various studies that have been completed (Figure 1).

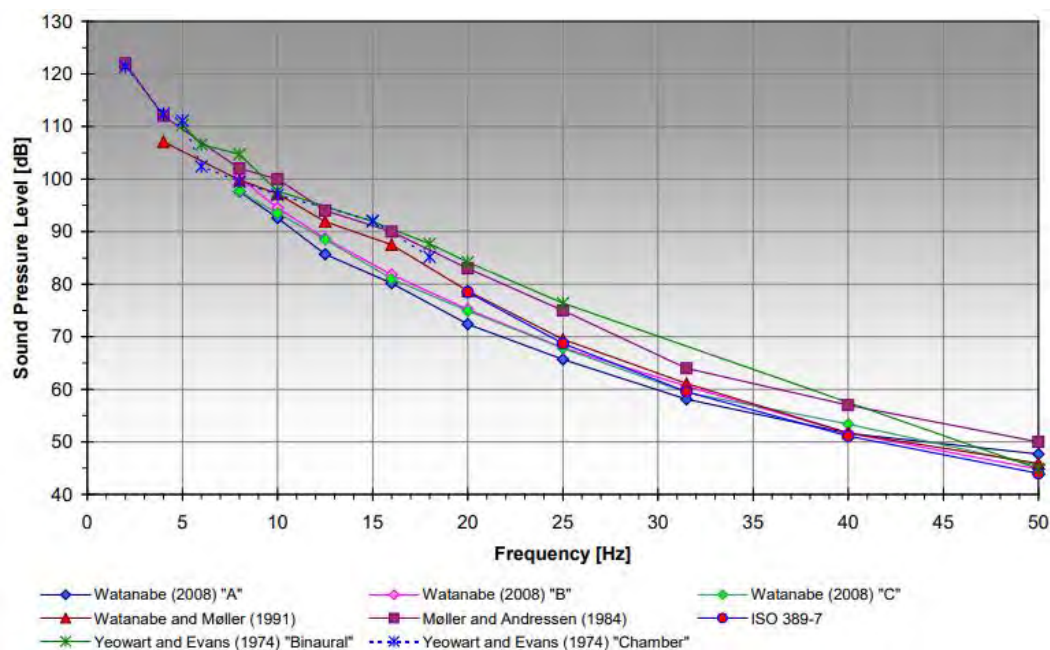


Figure 1: Threshold of Hearing Data from Various Papers (Source: HGC, 2010)

MEASURING INFRASOUND

In 2010, Sonus, an acoustic consulting firm based in South Australia, completed a study to measure infrasound produced by a range of natural and manmade sources using a methodology specifically designed to measure infrasound (Table 1). Sound levels measured using the G-weighting filters, expressed as dBG. The G-weighting network was applied to the measured infrasound pressure levels as it has been standardized to determine the human perception (i.e. threshold of hearing) and annoyance due to noise that lies within the infrasound frequency range. By comparison, when measuring audible sound levels, meters are usually equipped with weighting circuits to simulate the frequency response characteristics of the human ear.

Table 1: Measured Levels of Infrasound from Natural & Manmade Sources

Source	Infrasound Level (dBG)
Threshold of Hearing	85
Ambient Infrasound (As measured 100 m from nearest wind turbine with negligible wind and no turbine operation)	62
Natural Sources	
Adjacent to Beach – 25 m from high water	75
Cliff Face – 250 m from coastline	69
Inland Forest – 8 km from coastline	57
Anthropogenic Sources	
Business District (70 m from two major road corridors)	76
Gas Fired Power Station (350 m away)	74
Wind Farm – 100 m downwind	66
Wind Farm – 200 m downwind	63
Wind Farm – 360 m downwind	61
Outside Residence – 1.2 km from nearest wind turbine	58

Source: Sonus 2010

The results of the study indicate that while turbines do produce infrasound, levels are well below established levels that can be perceived by humans and are comparable to natural and urban sources that are common in the environment.

INFRASOUND AND POTENTIAL HEALTH CONCERNS

Concern about infrasound from wind turbines is thought to have originated from the experience of neighbours of early wind turbine designs with downwind rotors (rotors downwind of the tower). In contrast, all modern utility scale wind turbines have upwind rotors that produce significantly lower infrasound emissions (Bastasch et al., 2006). Several studies and panels have been assembled to evaluate the perceived health effects associated with wind turbines.

A study by Evans et al. (2013) concluded that measured infrasound levels at rural locations both near to and away from wind farms were no higher than infrasound levels measured at the

urban locations. Human activity and traffic were the main sources of infrasound within urban locations, while localized wind conditions were found to be the main source of infrasound in rural locations. All measurements were below the levels that can be perceived by humans, with most by a significant margin (Evans et al., 2013).

A scientific advisory panel with expertise in audiology, acoustics, occupational/environmental medicine, and public health was assembled by the wind industry in early 2009 to conduct a review of current literature available on the issue of perceived health effects of wind turbines (Colby et al., 2009). Following their review and analysis of the information, the panel reached consensus on the following conclusions:

- There is no evidence that the audible or sub-audible sounds emitted by wind turbines have any direct adverse physiological effects.
- The ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans.
- Sounds emitted by wind turbines are not unique. There is no reason to believe, based on the levels and frequencies of the sounds and the panel's experience with sound exposures in occupational settings, that the sounds from wind turbines could plausibly have direct adverse health consequences.

The Chief Medical Officer of Health in Ontario also conducted a review of papers and reports (from 1970 to 2010) on wind turbines and health from scientific bibliographic databases, grey literature, and from a structured Internet search. The report concluded that “low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects” (CMOH of Ontario, 2010).

The Massachusetts panel concluded that “measured levels of infrasound produced by modern upwind wind turbines at distances as close as 68 m are well below that required for non-auditory perception”. Further, the panel concluded that “the weight of the evidence suggests no association between noise from wind turbines and measures of psychological distress or mental health problems” (Ellenbogen et al., 2012).

A new study found that infrasound (generated acoustically as part of the study to correspond to real world wind farms) had no influence on reported annoyance or on the measured response on the autonomic nervous system (Majjala et al., 2021). The study concluded that participants did not detect infrasonic ranges of simulated wind turbine noise.

Overall, potential impacts on nearby residents as a result of Project generated infrasound are anticipated to be negligible based on the scientific findings discussed above and distances to nearby receptors.

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

Noise calculation model:

ISO 9613-2 General

Wind speed (at hubheight):

Loudest up to 95% rated power

Ground attenuation:

General, Ground factor: 0.7

Meteorological coefficient, C0:

Selected option: Fixed value: 0.0 dB

Type of demand in calculation:

2: WTG plus ambient noise is compared to ambient noise plus margin (FR etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Fixed penalty added to source noise of WTGs with pure tones

Model: 5.0 dB(A)

Height above ground level, when no value in NSA object:

1.5 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

0.0 dB; Uncertainty margin in NSA has priority

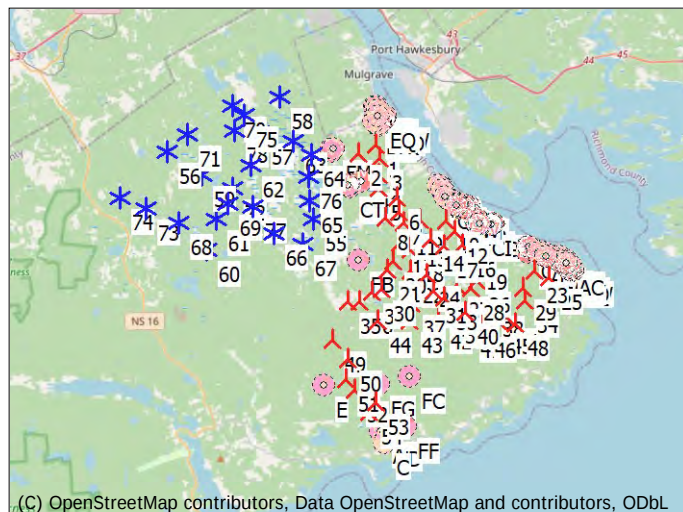
Deviation from "official" noise demands. Negative is more restrictive,

positive is less restrictive.:

0.0 dB(A)

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



Scale 1:400,000

New WTG

Noise sensitive area

Existing WTG

WTGs

	Easting	Northing	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	LwA,ref [dB(A)]
			[m]											
1	626,011.47	5,047,867.17	135.4	T1: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM1s - 109.5dBA - 120.0m HH	8.0	109.50 h
2	625,155.46	5,047,399.23	149.9	T2: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
3	626,271.31	5,047,175.54	150.2	T3: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
4	626,198.76	5,046,320.50	164.5	T4: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
5	626,250.94	5,045,552.45	174.6	T5: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
6	627,192.41	5,045,103.59	179.2	T6: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
7	627,332.04	5,044,342.87	173.6	T7: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
8	626,569.49	5,044,008.44	173.9	T8: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
9	628,450.74	5,043,919.96	163.0	T9: Goldwind GWH182 ...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
10	629,801.48	5,043,902.37	121.8	T10: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
11	627,541.69	5,043,750.30	162.9	T11: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
12	630,304.06	5,043,393.67	121.3	T12: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
13	628,178.79	5,043,190.91	159.3	T13: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
14	629,005.54	5,042,912.23	149.9	T14: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
15	627,436.55	5,042,697.86	150.0	T15: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
16	630,709.88	5,042,672.74	108.5	T16: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
17	629,745.46	5,042,585.95	130.2	T17: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
18	627,992.60	5,042,362.42	144.8	T18: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
19	631,379.53	5,042,023.47	98.4	T19: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
20	627,055.70	5,041,715.41	157.3	T20: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
21	626,728.73	5,041,269.78	154.0	T21: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
22	627,970.15	5,041,280.54	146.2	T22: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
23	634,596.13	5,041,414.80	60.4	T23: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM2s - 108.5dBA - 120.0m HH	7.5	108.50 h
24	628,826.14	5,041,073.56	136.9	T24: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
25	635,323.57	5,041,020.32	60.2	T25: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM2s - 108.5dBA - 120.0m HH	7.5	108.50 h
26	631,538.69	5,040,805.32	116.3	T26: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
27	630,473.01	5,040,529.65	128.7	T27: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
28	631,241.14	5,040,422.30	109.8	T28: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
29	633,974.16	5,040,461.18	92.4	T29: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
30	626,522.83	5,040,243.12	134.2	T30: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM1s - 109.5dBA - 120.0m HH	8.0	109.50 h
31	629,268.98	5,040,212.41	142.9	T31: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
32	625,972.19	5,040,070.88	136.2	T32: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
33	629,777.78	5,039,871.70	131.3	T33: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
34	634,097.04	5,039,794.70	99.4	T34: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
35	624,681.32	5,039,548.30	137.6	T35: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
36	625,320.45	5,039,519.91	148.4	T36: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
37	628,084.13	5,039,486.80	131.9	T37: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
38	632,248.10	5,039,516.49	95.0	T38: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
39	630,293.84	5,039,146.63	121.7	T39: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
40	624,681.32	5,039,113.46	115.8	T40: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
41	633,152.51	5,038,925.43	86.0	T41: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
42	629,539.96	5,038,822.04	113.1	T42: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
43	627,975.66	5,038,596.56	122.5	T43: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
44	626,345.12	5,038,550.19	119.0	T44: Goldwind GWH182...	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-20 8:26 AM/4.0.424

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

	Easting	Northing	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data		Wind speed [m/s]	LwA,ref [dB(A)]
					Valid	Manufact.					Creator	Name		
			[m]											
45	632,703.38	5,038,612.49	83.3	T45: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
46	631,851.46	5,038,453.38	98.4	T46: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
47	631,126.68	5,038,419.30	103.0	T47: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
48	633,626.00	5,038,526.76	75.7	T48: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
49	623,923.03	5,037,457.19	102.1	T49: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
50	624,732.28	5,036,471.18	91.2	T50: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
51	624,677.75	5,035,397.16	103.9	T51: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
52	625,139.73	5,034,859.53	91.9	T52: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
53	626,324.82	5,034,263.73	72.0	T53: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	SRM4s - 106.5dBA - 120.0m HH	7.0	106.50 h
54	625,948.76	5,033,746.07	56.4	T54: Goldwind GWH182... No		Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	NPM - 112.0dBA - 120.0m HH	8.0	112.00 h
55	622,768.22	5,043,892.69	162.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
56	615,028.22	5,047,260.69	156.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
57	619,844.22	5,048,347.69	172.2	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
58	620,897.22	5,050,284.69	170.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
59	616,839.22	5,046,105.69	180.8	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
60	617,180.22	5,042,189.70	162.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
61	617,664.22	5,043,801.69	177.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
62	619,430.22	5,046,659.69	182.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
63	621,650.22	5,047,994.69	167.2	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118_STE STE Mode 1	8.8	105.79
64	622,605.22	5,047,280.69	165.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118_STE STE Mode 1	8.8	105.79
65	622,550.22	5,044,814.69	164.2	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
66	620,700.22	5,043,074.69	164.1	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
67	622,300.22	5,042,545.69	151.4	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
68	615,685.22	5,043,509.70	172.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
69	618,273.22	5,044,586.69	183.2	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
70	618,361.22	5,049,775.69	341.3	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
71	616,057.22	5,048,218.69	161.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
72	618,491.22	5,045,409.69	186.3	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
73	613,929.22	5,044,259.70	161.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
74	612,550.22	5,044,794.70	159.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
75	619,016.22	5,049,288.69	173.4	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
76	622,476.22	5,046,110.69	155.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
77	619,585.22	5,044,466.69	180.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77
78	618,499.22	5,048,443.69	176.0	NORDEX N163/7.X 7000... Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	USER	N163/7.X_R02 HH118 Mode 1	8.8	107.77

h) Generic octave distribution used

Calculation Results**Sound level**

Noise sensitive area				Demands				Sound level				Demands fulfilled ?	
No.	Name	Easting	Northing	Z	Immission height [m]	Ambient noise [dB(A)]	Additional exposure [dB(A)]	Ambient+WTGs [dB(A)]	From WTGs [dB(A)]	Ambient+WTGs [dB(A)]	Additional exposure [dB(A)]	Noise	
A	Noise sensitive point: User defined (913)	626,617.83	5,032,705.89	33.8	1.5	35.00	5.0	40.0	35.81	38.44	3.44	Yes	
B	Noise sensitive point: User defined (914)	627,228.13	5,032,747.29	29.6	1.5	35.00	5.0	40.0	33.67	37.39	2.39	Yes	
C	Noise sensitive point: User defined (915)	626,761.53	5,032,137.59	34.4	1.5	35.00	5.0	40.0	32.44	36.91	1.91	Yes	
D	Noise sensitive point: User defined (916)	626,784.33	5,032,163.89	34.4	1.5	35.00	5.0	40.0	32.51	36.94	1.94	Yes	
E	Noise sensitive point: User defined (917)	623,544.83	5,035,105.69	95.5	1.5	35.00	5.0	40.0	37.58	39.49	4.49	Yes	
F	Noise sensitive point: User defined (918)	635,889.53	5,042,081.79	18.3	1.5	35.00	5.0	40.0	35.56	38.30	3.30	Yes	
G	Noise sensitive point: User defined (919)	635,825.83	5,042,118.59	17.0	1.5	35.00	5.0	40.0	35.64	38.34	3.34	Yes	
H	Noise sensitive point: User defined (920)	635,847.13	5,042,149.39	17.3	1.5	35.00	5.0	40.0	35.42	38.23	3.23	Yes	
I	Noise sensitive point: User defined (921)	635,156.13	5,042,155.09	18.7	1.5	35.00	5.0	40.0	37.87	39.68	4.68	Yes	
J	Noise sensitive point: User defined (922)	636,456.04	5,041,689.18	50.2	1.5	35.00	5.0	40.0	34.32	37.68	2.68	Yes	
K	Noise sensitive point: User defined (923)	636,479.83	5,041,689.69	49.0	1.5	35.00	5.0	40.0	34.20	37.63	2.63	Yes	
L	Noise sensitive point: User defined (924)	635,571.03	5,042,163.89	2.7	1.5	35.00	5.0	40.0	36.37	38.75	3.75	Yes	
M	Noise sensitive point: User defined (925)	635,383.83	5,042,170.39	9.0	1.5	35.00	5.0	40.0	36.99	39.12	4.12	Yes	
N	Noise sensitive point: User defined (926)	635,393.83	5,042,172.59	8.5	1.5	35.00	5.0	40.0	36.94	39.09	4.09	Yes	
O	Noise sensitive point: User defined (927)	635,492.53	5,042,185.39	2.5	1.5	35.00	5.0	40.0	36.53	38.84	3.84	Yes	
P	Noise sensitive point: User defined (928)	636,268.23	5,041,718.29	52.3	1.5	35.00	5.0	40.0	35.19	38.11	3.11	Yes	
Q	Noise sensitive point: User defined (929)	634,499.93	5,042,483.89	17.0	1.5	35.00	5.0	40.0	36.78	38.99	3.99	Yes	
R	Noise sensitive point: User defined (930)	634,510.73	5,042,491.09	15.6	1.5	35.00	5.0	40.0	36.73	38.96	3.96	Yes	
S	Noise sensitive point: User defined (931)	635,171.03	5,042,210.39	13.0	1.5	35.00	5.0	40.0	37.45	39.40	4.40	Yes	
T	Noise sensitive point: User defined (932)	634,978.23	5,042,203.14	12.2	1.5	35.00	5.0	40.0	38.06	39.81	4.81	Yes	
U	Noise sensitive point: User defined (933)	636,063.97	5,041,756.94	48.8	1.5	35.00	5.0	40.0	36.17	38.63	3.63	Yes	
V	Noise sensitive point: User defined (934)	634,177.41	5,042,324.50	40.0	1.5	35.00	5.0	40.0	37.60	39.50	4.50	Yes	
W	Noise sensitive point: User defined (935)	635,002.43	5,042,351.29	4.3	1.5	35.00	5.0	40.0	36.98	39.11	4.11	Yes	
X	Noise sensitive point: User defined (936)	635,023.33	5,042,357.69	4.0	1.5	35.00	5.0	40.0	36.90	39.06	4.06	Yes	
Y	Noise sensitive point: User defined (937)	634,799.23	5,042,358.49	3.5	1.5	35.00	5.0	40.0	37.31	39.32	4.32	Yes	
Z	Noise sensitive point: User defined (938)	634,765.23	5,042,362.79	6.6	1.5	35.00	5.0	40.0	37.33	39.33	4.33	Yes	
AA	Noise sensitive point: User defined (939)	634,923.03	5,042,369.79	0.9	1.5	35.00	5.0	40.0	37.03	39.14	4.14	Yes	
AB	Noise sensitive point: User defined (940)	636,249.54	5,041,785.35	45.0	1.5	35.00	5.0	40.0	35.07	38.05	3.05	Yes	
AC	Noise sensitive point: User defined (941)	636,259.83	5,041,802.69	43.2	1.5	35.00	5.0	40.0	34.97	37.99	2.99	Yes	
AD	Noise sensitive point: User defined (942)	634,932.93	5,042,272.99	6.1	1.5	35.00	5.0	40.0	37.66	39.54	4.54	Yes	
AE	Noise sensitive point: User defined (943)	634,915.63	5,042,288.59	4.1	1.5	35.00	5.0	40.0	37.59	39.49	4.49	Yes	

To be continued on next page...

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dB Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Immission height [m]	Ambient noise [dB(A)]	Demands Additional exposure [dB(A)]	Ambient+WTGs [dB(A)]	Sound level From WTGs [dB(A)]	Ambient+WTGs [dB(A)]	Additional exposure [dB(A)]	Demands fulfilled ? Noise
				[m]								
AF	Noise sensitive point: User defined (944)	634,931.53	5,042,290.89	4.8	1.5	35.00	5.0	40.0	37.54	39.46	4.46	Yes
AG	Noise sensitive point: User defined (945)	636,599.93	5,041,413.79	58.1	1.5	35.00	5.0	40.0	34.14	37.60	2.60	Yes
AH	Noise sensitive point: User defined (946)	636,583.03	5,041,418.69	58.5	1.5	35.00	5.0	40.0	34.22	37.64	2.64	Yes
AI	Noise sensitive point: User defined (947)	634,705.93	5,042,377.69	10.4	1.5	35.00	5.0	40.0	37.30	39.31	4.31	Yes
AJ	Noise sensitive point: User defined (948)	634,783.83	5,042,382.19	4.4	1.5	35.00	5.0	40.0	37.18	39.23	4.23	Yes
AK	Noise sensitive point: User defined (949)	634,721.51	5,042,388.36	9.1	1.5	35.00	5.0	40.0	37.22	39.26	4.26	Yes
AL	Noise sensitive point: User defined (950)	634,645.53	5,042,398.59	11.9	1.5	35.00	5.0	40.0	37.22	39.26	4.26	Yes
AM	Noise sensitive point: User defined (951)	634,734.43	5,042,402.29	6.4	1.5	35.00	5.0	40.0	37.11	39.19	4.19	Yes
AN	Noise sensitive point: User defined (952)	636,460.83	5,041,460.05	60.3	1.5	35.00	5.0	40.0	34.80	37.91	2.91	Yes
AO	Noise sensitive point: User defined (953)	636,114.23	5,041,883.99	34.9	1.5	35.00	5.0	40.0	35.39	38.21	3.21	Yes
AP	Noise sensitive point: User defined (954)	635,978.73	5,041,889.09	32.4	1.5	35.00	5.0	40.0	36.03	38.55	3.55	Yes
AQ	Noise sensitive point: User defined (955)	636,476.94	5,041,490.76	60.0	1.5	35.00	5.0	40.0	34.65	37.84	2.84	Yes
AR	Noise sensitive point: User defined (956)	636,501.43	5,041,502.19	59.3	1.5	35.00	5.0	40.0	34.50	37.77	2.77	Yes
AS	Noise sensitive point: User defined (957)	635,994.03	5,041,955.79	31.0	1.5	35.00	5.0	40.0	35.92	38.50	3.50	Yes
AT	Noise sensitive point: User defined (958)	636,216.93	5,041,901.89	34.6	1.5	35.00	5.0	40.0	34.84	37.93	2.93	Yes
AU	Noise sensitive point: User defined (959)	636,206.83	5,041,889.09	33.9	1.5	35.00	5.0	40.0	34.86	37.94	2.94	Yes
AV	Noise sensitive point: User defined (960)	635,977.93	5,041,913.99	29.1	1.5	35.00	5.0	40.0	35.92	38.49	3.49	Yes
AW	Noise sensitive point: User defined (961)	636,471.23	5,041,513.59	60.2	1.5	35.00	5.0	40.0	34.64	37.83	2.83	Yes
AX	Noise sensitive point: User defined (962)	636,588.03	5,041,525.79	54.8	1.5	35.00	5.0	40.0	34.02	37.55	2.55	Yes
AY	Noise sensitive point: User defined (963)	636,399.43	5,041,585.13	60.5	1.5	35.00	5.0	40.0	34.86	37.94	2.94	Yes
AZ	Noise sensitive point: User defined (964)	636,555.73	5,041,539.19	56.2	1.5	35.00	5.0	40.0	34.15	37.61	2.61	Yes
BA	Noise sensitive point: User defined (965)	635,961.53	5,041,924.19	28.2	1.5	35.00	5.0	40.0	35.95	38.51	3.51	Yes
BB	Noise sensitive point: User defined (966)	636,436.33	5,041,558.99	60.5	1.5	35.00	5.0	40.0	34.73	37.88	2.88	Yes
BC	Noise sensitive point: User defined (967)	636,422.33	5,041,559.69	61.0	1.5	35.00	5.0	40.0	34.80	37.91	2.91	Yes
BD	Noise sensitive point: User defined (968)	636,247.64	5,041,969.46	26.1	1.5	35.00	5.0	40.0	34.48	37.76	2.76	Yes
BE	Noise sensitive point: User defined (969)	635,680.33	5,041,938.89	20.8	1.5	35.00	5.0	40.0	36.93	39.08	4.08	Yes
BF	Noise sensitive point: User defined (970)	635,693.13	5,041,997.09	19.1	1.5	35.00	5.0	40.0	36.80	39.00	4.00	Yes
BG	Noise sensitive point: User defined (971)	636,346.70	5,041,650.66	57.8	1.5	35.00	5.0	40.0	34.98	38.00	3.00	Yes
BH	Noise sensitive point: User defined (972)	636,499.13	5,041,628.19	52.2	1.5	35.00	5.0	40.0	34.25	37.65	2.65	Yes
BI	Noise sensitive point: User defined (973)	631,520.83	5,043,807.39	9.0	1.5	35.00	5.0	40.0	37.63	39.52	4.52	Yes
BJ	Noise sensitive point: User defined (974)	630,617.93	5,044,567.79	3.0	1.5	35.00	5.0	40.0	37.87	39.68	4.68	Yes
BK	Noise sensitive point: User defined (975)	630,605.43	5,044,574.29	2.3	1.5	35.00	5.0	40.0	37.88	39.68	4.68	Yes
BL	Noise sensitive point: User defined (976)	630,805.13	5,044,595.89	4.0	1.5	35.00	5.0	40.0	37.20	39.25	4.25	Yes
BM	Noise sensitive point: User defined (977)	630,789.83	5,044,610.79	4.0	1.5	35.00	5.0	40.0	37.19	39.24	4.24	Yes
BN	Noise sensitive point: User defined (978)	630,762.73	5,044,612.29	4.0	1.5	35.00	5.0	40.0	37.26	39.28	4.28	Yes
BO	Noise sensitive point: User defined (979)	631,056.33	5,044,636.69	3.8	1.5	35.00	5.0	40.0	36.38	38.75	3.75	Yes
BP	Noise sensitive point: User defined (980)	631,452.33	5,043,910.79	8.1	1.5	35.00	5.0	40.0	37.52	39.45	4.45	Yes
BQ	Noise sensitive point: User defined (981)	630,357.62	5,044,704.71	8.1	1.5	35.00	5.0	40.0	38.06	39.80	4.80	Yes
BR	Noise sensitive point: User defined (982)	631,078.73	5,044,349.09	8.2	1.5	35.00	5.0	40.0	37.25	39.28	4.28	Yes
BS	Noise sensitive point: User defined (983)	630,433.93	5,044,668.99	4.0	1.5	35.00	5.0	40.0	37.99	39.76	4.76	Yes
BT	Noise sensitive point: User defined (984)	631,008.16	5,044,688.76	5.7	1.5	35.00	5.0	40.0	36.34	38.73	3.73	Yes
BV	Noise sensitive point: User defined (985)	631,087.93	5,044,389.29	8.1	1.5	35.00	5.0	40.0	37.09	39.18	4.18	Yes
BV	Noise sensitive point: User defined (986)	630,397.58	5,044,721.88	6.4	1.5	35.00	5.0	40.0	37.86	39.67	4.67	Yes
BW	Noise sensitive point: User defined (987)	630,359.30	5,044,722.79	8.9	1.5	35.00	5.0	40.0	37.97	39.74	4.74	Yes
BX	Noise sensitive point: User defined (988)	631,523.53	5,043,987.39	3.0	1.5	35.00	5.0	40.0	37.07	39.17	4.17	Yes
BY	Noise sensitive point: User defined (989)	634,305.68	5,042,560.70	19.0	1.5	35.00	5.0	40.0	36.40	38.77	3.77	Yes
BZ	Noise sensitive point: User defined (990)	634,228.43	5,042,594.19	18.1	1.5	35.00	5.0	40.0	36.25	38.68	3.68	Yes
CA	Noise sensitive point: User defined (991)	634,248.53	5,042,610.19	15.8	1.5	35.00	5.0	40.0	36.17	38.64	3.64	Yes
CB	Noise sensitive point: User defined (992)	634,208.53	5,042,610.49	17.4	1.5	35.00	5.0	40.0	36.17	38.64	3.64	Yes
CC	Noise sensitive point: User defined (993)	634,219.33	5,042,620.69	16.4	1.5	35.00	5.0	40.0	36.13	38.61	3.61	Yes
CD	Noise sensitive point: User defined (994)	630,969.73	5,044,509.09	2.9	1.5	35.00	5.0	40.0	37.03	39.14	4.14	Yes
CE	Noise sensitive point: User defined (995)	630,934.63	5,044,513.49	2.6	1.5	35.00	5.0	40.0	37.11	39.19	4.19	Yes
CF	Noise sensitive point: User defined (996)	631,616.17	5,043,721.31	4.5	1.5	35.00	5.0	40.0	37.62	39.51	4.51	Yes
CG	Noise sensitive point: User defined (997)	631,636.13	5,043,741.49	3.3	1.5	35.00	5.0	40.0	37.49	39.43	4.43	Yes
CH	Noise sensitive point: User defined (998)	631,550.83	5,043,755.89	8.0	1.5	35.00	5.0	40.0	37.71	39.57	4.57	Yes
CI	Noise sensitive point: User defined (999)	631,559.43	5,043,779.09	7.9	1.5	35.00	5.0	40.0	37.61	39.51	4.51	Yes
CJ	Noise sensitive point: User defined (1000)	631,503.33	5,043,784.99	9.0	1.5	35.00	5.0	40.0	37.76	39.60	4.60	Yes
CK	Noise sensitive point: User defined (1001)	630,418.23	5,044,853.79	5.8	1.5	35.00	5.0	40.0	37.25	39.28	4.28	Yes
CL	Noise sensitive point: User defined (1002)	629,752.63	5,045,201.39	9.0	1.5	35.00	5.0	40.0	37.25	39.28	4.28	Yes
CM	Noise sensitive point: User defined (1003)	629,780.63	5,045,202.89	7.3	1.5	35.00	5.0	40.0	37.19	39.24	4.24	Yes
CN	Noise sensitive point: User defined (1004)	629,573.43	5,045,570.49	9.2	1.5	35.00	5.0	40.0	36.24	38.68	3.68	Yes
CO	Noise sensitive point: User defined (1005)	630,388.63	5,044,866.18	6.5	1.5	35.00	5.0	40.0	37.27	39.29	4.29	Yes
CP	Noise sensitive point: User defined (1006)	629,548.03	5,045,606.59	11.5	1.5	35.00	5.0	40.0	36.17	38.63	3.63	Yes
CQ	Noise sensitive point: User defined (1007)	629,765.43	5,045,268.69	4.0	1.5	35.00	5.0	40.0	36.97	39.10	4.10	Yes
CR	Noise sensitive point: User defined (1008)	629,533.33	5,045,648.39	10.9	1.5	35.00	5.0	40.0	36.06	38.57	3.57	Yes
CS	Noise sensitive point: User defined (1009)	629,735.23	5,045,383.09	3.0	1.5	35.00	5.0	40.0	36.61	38.89	3.89	Yes
CT	Noise sensitive point: User defined (1010)	624,564.03	5,045,697.49	141.0	1.5	35.00	5.0	40.0	35.74	38.39	3.39	Yes
CU	Noise sensitive point: User defined (1011)	629,467.33	5,045,699.09	10.4	1.5	35.00	5.0	40.0	36.00	38.54	3.54	Yes
CV	Noise sensitive point: User defined (1012)	629,530.23	5,045,707.29	3.7	1.5	35.00	5.0	40.0	35.87	38.47	3.47	Yes
CW	Noise sensitive point: User defined (1013)	629,994.68	5,045,016.51	5.6	1.5	35.00	5.0	40.0	37.53	39.45	4.45	Yes
CX	Noise sensitive point: User defined (1014)	629,664.73	5,045,409.79	4.1	1.5	35.00	5.0	40.0	36.64	38.90	3.90	Yes
CY	Noise sensitive point: User defined (1015)	629,440.73	5,045,729.59	9.2	1.5	35.00	5.0	40.0	35.94	38.51	3.51	Yes
CZ	Noise sensitive point: User defined (1016)	629,398.73	5,045,732.89	13.0	1.5	35.00	5.0	40.0	36.00	38.54	3.54	Yes
DA	Noise sensitive point: User defined (1017)	630,626.33	5,044,741.69	3.9	1.5	35.00	5.0	40.0	37.15	39.22	4.22	Yes
DB	Noise sensitive point: User defined (1018)	630,357.02	5,044,748.83	8.6	1.5	35.00	5.0	40.0	37.86	39.67	4.67	Yes
DC	Noise sensitive point: User defined (1019)	630,814.73	5,044,750.99	4.4	1.5	35.00	5.0	40.0	36.62	38.90	3.90	Yes
DD	Noise sensitive point: User defined (1020)	629,373.63	5,045,796.39	8.6	1.5	35.00	5.0	40.0	35.84	38.45	3.45	Yes

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting

Suite 210 - 211 Horseshoe Lake Dr

CA-HALIFAX B3S0B9

902.835.5560 (24/7)

Eric Johnson / ejohnson@strum.com

Calculated:

2025-08-20 8:26 AM/4.0.424

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

No.	Name	Easting	Northing	Z	Immission height [m]	Ambient noise [dB(A)]	Demands Additional exposure [dB(A)]	Ambient+WTGs [dB(A)]	Sound level From WTGs [dB(A)]	Ambient+WTGs [dB(A)]	Additional exposure [dB(A)]	Demands fulfilled ?
No.	Name	Easting	Northing	Z	Immission height [m]	Ambient noise [dB(A)]	Demands Additional exposure [dB(A)]	Ambient+WTGs [dB(A)]	Sound level From WTGs [dB(A)]	Ambient+WTGs [dB(A)]	Additional exposure [dB(A)]	Noise
DE	Noise sensitive point: User defined (1021)	630,455.73	5,044,770.49	6.3	1.5	35.00	5.0	40.0	37.50	39.43	4.43	Yes
DF	Noise sensitive point: User defined (1022)	630,479.63	5,044,776.99	7.0	1.5	35.00	5.0	40.0	37.41	39.38	4.38	Yes
DG	Noise sensitive point: User defined (1023)	629,859.63	5,045,103.29	4.2	1.5	35.00	5.0	40.0	37.43	39.39	4.39	Yes
DH	Noise sensitive point: User defined (1024)	629,928.53	5,045,104.69	2.2	1.5	35.00	5.0	40.0	37.29	39.31	4.31	Yes
DI	Noise sensitive point: User defined (1025)	630,448.13	5,044,806.39	6.6	1.5	35.00	5.0	40.0	37.37	39.35	4.35	Yes
DJ	Noise sensitive point: User defined (1026)	629,885.53	5,045,125.99	3.0	1.5	35.00	5.0	40.0	37.29	39.30	4.30	Yes
DK	Noise sensitive point: User defined (1027)	630,478.03	5,044,813.59	5.6	1.5	35.00	5.0	40.0	37.26	39.29	4.29	Yes
DL	Noise sensitive point: User defined (1028)	630,422.63	5,044,829.89	6.3	1.5	35.00	5.0	40.0	37.34	39.33	4.33	Yes
DM	Noise sensitive point: User defined (1029)	630,377.63	5,044,830.09	6.0	1.5	35.00	5.0	40.0	37.45	39.41	4.41	Yes
DN	Noise sensitive point: User defined (1030)	629,767.63	5,045,189.39	9.1	1.5	35.00	5.0	40.0	37.27	39.29	4.29	Yes
DO	Noise sensitive point: User defined (1031)	626,426.83	5,049,243.59	5.3	1.5	35.00	5.0	40.0	33.21	37.21	2.21	Yes
DP	Noise sensitive point: User defined (1032)	625,975.93	5,048,970.09	2.6	1.5	35.00	5.0	40.0	35.22	38.12	3.12	Yes
DQ	Noise sensitive point: User defined (1033)	625,960.63	5,048,971.69	3.6	1.5	35.00	5.0	40.0	35.21	38.12	3.12	Yes
DR	Noise sensitive point: User defined (1034)	626,262.03	5,049,015.49	8.1	1.5	35.00	5.0	40.0	34.71	37.87	2.87	Yes
DS	Noise sensitive point: User defined (1035)	626,025.83	5,049,028.09	1.5	1.5	35.00	5.0	40.0	34.82	37.92	2.92	Yes
DT	Noise sensitive point: User defined (1036)	626,019.63	5,049,036.89	1.9	1.5	35.00	5.0	40.0	34.76	37.89	2.89	Yes
DU	Noise sensitive point: User defined (1037)	625,985.93	5,049,074.29	5.1	1.5	35.00	5.0	40.0	34.53	37.78	2.78	Yes
DV	Noise sensitive point: User defined (1038)	626,296.83	5,049,082.09	5.0	1.5	35.00	5.0	40.0	34.25	37.65	2.65	Yes
DW	Noise sensitive point: User defined (1039)	626,467.23	5,049,380.29	3.0	1.5	35.00	5.0	40.0	32.53	36.95	1.95	Yes
DX	Noise sensitive point: User defined (1040)	625,914.53	5,049,094.99	9.6	1.5	35.00	5.0	40.0	34.40	37.72	2.72	Yes
DY	Noise sensitive point: User defined (1041)	626,269.43	5,049,101.59	3.7	1.5	35.00	5.0	40.0	34.17	37.62	2.62	Yes
DZ	Noise sensitive point: User defined (1042)	625,942.33	5,049,107.49	6.3	1.5	35.00	5.0	40.0	34.33	37.69	2.69	Yes
EA	Noise sensitive point: User defined (1043)	626,159.13	5,048,852.49	22.1	1.5	35.00	5.0	40.0	36.02	38.55	3.55	Yes
EB	Noise sensitive point: User defined (1044)	626,236.83	5,048,861.49	20.0	1.5	35.00	5.0	40.0	35.84	38.45	3.45	Yes
EC	Noise sensitive point: User defined (1045)	626,206.83	5,048,864.39	20.5	1.5	35.00	5.0	40.0	35.87	38.46	3.46	Yes
ED	Noise sensitive point: User defined (1046)	626,049.23	5,048,897.49	9.7	1.5	35.00	5.0	40.0	35.74	38.40	3.40	Yes
EE	Noise sensitive point: User defined (1047)	626,066.03	5,048,911.79	8.3	1.5	35.00	5.0	40.0	35.63	38.33	3.33	Yes
EF	Noise sensitive point: User defined (1048)	626,215.33	5,048,947.59	9.0	1.5	35.00	5.0	40.0	35.23	38.13	3.13	Yes
EG	Noise sensitive point: User defined (1049)	625,985.23	5,048,950.29	2.7	1.5	35.00	5.0	40.0	35.36	38.19	3.19	Yes
EH	Noise sensitive point: User defined (1050)	626,049.63	5,049,836.59	9.5	1.5	35.00	5.0	40.0	31.04	36.47	1.47	Yes
EI	Noise sensitive point: User defined (1051)	625,998.53	5,049,842.59	13.3	1.5	35.00	5.0	40.0	31.03	36.46	1.46	Yes
EJ	Noise sensitive point: User defined (1052)	625,917.73	5,049,844.69	20.0	1.5	35.00	5.0	40.0	31.04	36.47	1.47	Yes
EK	Noise sensitive point: User defined (1053)	626,062.23	5,049,858.79	6.8	1.5	35.00	5.0	40.0	30.96	36.44	1.44	Yes
EL	Noise sensitive point: User defined (1054)	626,040.33	5,049,638.39	14.9	1.5	35.00	5.0	40.0	31.75	36.68	1.68	Yes
EM	Noise sensitive point: User defined (1055)	626,086.33	5,049,642.19	10.1	1.5	35.00	5.0	40.0	31.73	36.67	1.67	Yes
EN	Noise sensitive point: User defined (1056)	626,034.03	5,049,658.29	15.2	1.5	35.00	5.0	40.0	31.68	36.66	1.66	Yes
EO	Noise sensitive point: User defined (1057)	626,077.63	5,049,678.09	10.0	1.5	35.00	5.0	40.0	31.59	36.63	1.63	Yes
EQ	Noise sensitive point: User defined (1058)	626,026.63	5,049,679.09	14.8	1.5	35.00	5.0	40.0	31.60	36.64	1.64	Yes
EP	Noise sensitive point: User defined (1059)	626,084.53	5,049,417.19	4.8	1.5	35.00	5.0	40.0	32.66	37.00	2.00	Yes
ER	Noise sensitive point: User defined (1060)	626,072.13	5,049,702.99	9.7	1.5	35.00	5.0	40.0	31.50	36.60	1.60	Yes
ES	Noise sensitive point: User defined (1061)	626,109.83	5,049,456.69	2.6	1.5	35.00	5.0	40.0	32.48	36.93	1.93	Yes
ET	Noise sensitive point: User defined (1062)	625,973.63	5,049,796.49	16.8	1.5	35.00	5.0	40.0	31.19	36.51	1.51	Yes
EU	Noise sensitive point: User defined (1063)	626,116.03	5,049,497.79	2.7	1.5	35.00	5.0	40.0	32.30	36.87	1.87	Yes
EV	Noise sensitive point: User defined (1064)	625,980.13	5,049,814.29	15.7	1.5	35.00	5.0	40.0	31.13	36.49	1.49	Yes
EW	Noise sensitive point: User defined (1065)	626,017.03	5,049,814.99	12.4	1.5	35.00	5.0	40.0	31.12	36.49	1.49	Yes
EX	Noise sensitive point: User defined (1066)	629,533.79	5,045,539.08	15.6	1.5	35.00	5.0	40.0	36.42	38.78	3.78	Yes
EY	Noise sensitive point: User defined (1067)	629,561.04	5,045,508.90	13.6	1.5	35.00	5.0	40.0	36.48	38.81	3.81	Yes
EZ	Noise sensitive point: User defined (1068)	626,208.08	5,049,016.06	3.4	1.5	35.00	5.0	40.0	34.77	37.90	2.90	Yes
FA	Noise sensitive point: User defined (1069)	626,021.23	5,049,586.82	16.0	1.5	35.00	5.0	40.0	31.96	36.75	1.75	Yes
FB	Noise sensitive point: User defined (1070)	625,235.30	5,041,730.71	146.1	1.5	35.00	5.0	40.0	38.21	39.90	4.90	Yes
FC	Noise sensitive point: User defined (1071)	628,074.66	5,035,621.55	51.9	1.5	35.00	5.0	40.0	34.17	37.61	2.61	Yes
FD	Noise sensitive point: User defined (1072)	626,803.90	5,032,585.09	33.4	1.5	35.00	5.0	40.0	34.47	37.75	2.75	Yes
FE	Noise sensitive point: User defined (1073)	626,823.36	5,032,784.31	44.2	1.5	35.00	5.0	40.0	35.47	38.25	3.25	Yes
FF	Noise sensitive point: User defined (1074)	627,868.70	5,033,035.10	36.8	1.5	35.00	5.0	40.0	32.28	36.86	1.86	Yes
FG	Noise sensitive point: User defined (1075)	626,463.80	5,035,207.60	68.1	1.5	35.00	5.0	40.0	37.98	39.75	4.75	Yes
FH	Noise sensitive point: User defined (1076)	625,308.51	5,045,894.76	162.0	1.5	35.00	5.0	40.0	38.11	39.84	4.84	Yes
FI	Noise sensitive point: User defined (1077)	624,614.70	5,045,674.30	141.0	1.5	35.00	5.0	40.0	35.82	38.44	3.44	Yes
FJ	Noise sensitive point: User defined (1078)	624,693.97	5,045,583.30	142.4	1.5	35.00	5.0	40.0	35.96	38.52	3.52	Yes
FK	Noise sensitive point: User defined (1079)	623,669.87	5,047,422.49	144.0	1.5	35.00	5.0	40.0	35.53	38.28	3.28	Yes
FL	Noise sensitive point: User defined (1080)	623,661.18	5,047,578.14	144.4	1.5	35.00	5.0	40.0	35.32	38.17	3.17	Yes
FM	Noise sensitive point: User defined (1081)	623,804.74	5,047,577.31	153.0	1.5	35.00	5.0	40.0	35.17	38.10	3.10	Yes
FN	Noise sensitive point: User defined (1082)	632,350.92	5,043,812.23	16.6	1.5	35.00	5.0	40.0	35.52	38.28	3.28	Yes
FO	Noise sensitive point: User defined (1083)	632,221.59	5,043,774.78	17.6	1.5	35.00	5.0	40.0	35.91	38.49	3.49	Yes

Distances (m)

NSA	WTG 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	15173	14766	14474	13621	12852	12411	11659	11303	11363	11640	11083	11306	10601	10482	10025	10774	10363	9754	10464	9020	8565	8681
B	15169	14798	14460	13612	12842	12356	11596	11280	11239	11448	11007	11082	10487	10319	9953	10518	10156	9645	10163	8970	8537	8565
C	15747	15346	15046	14194	13425	12973	12219	11872	11903	12151	11639	11800	11144	11006	10582	11251	10866	10299	10911	9582	9132	9222
D	15722	15322	15020	14169	13399	12946	12191	11846	11874	12120	11611	11768	11115	10975	10554	11218	10835	10270	10878	9555	9106	9193
E	12998	12399	12374	11525	10792	10642	9983	9403	10088	10795	9524	10695	9319	9527	8532	10421	9716	8511	10452	7484	6938	7597
F	11448	11979	10884	10577	10244	9207	8851	9517	7663	6354	8513	5737	7790	6934	8475	5213	6165	7902	4510	8841	9197	7960

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DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

WTG	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
NSA	5393	3981	6210	4117	4221	4416	5610	5916	4665	6412	4911	6207	7698	7260	5732	5564	5603	5666	6460	5983	6597	7384
DB	5043	4181	5852	4012	4235	4350	5328	6224	4795	6735	4988	5945	8043	7586	5930	5427	5629	5639	6277	6064	6778	7644
DC	6817	4754	7630	5440	5380	5689	7045	6242	5585	6660	5938	7637	7814	7471	6440	6906	6713	6865	7842	6976	7334	7854
DD	5329	4040	6145	4110	4241	4419	5563	5997	4710	6495	4945	6166	7786	7344	5792	5551	5626	5678	6437	6019	6653	7456
DE	5315	4056	6130	4110	4247	4421	5553	6018	4722	6516	4955	6157	7808	7366	5807	5550	5633	5682	6433	6029	6668	7474
DF	6003	4160	6821	4614	4615	4881	6203	5895	4926	6359	5232	6792	7594	7196	5890	6076	5972	6087	7001	6289	6774	7436
DG	5950	4179	6767	4591	4607	4863	6159	5936	4937	6402	5235	6751	7642	7240	5913	6050	5969	6077	6970	6295	6795	7470
DH	5358	4070	6173	4147	4277	4455	5596	6019	4743	6516	4980	6199	7804	7365	5821	5588	5662	5714	6473	6053	6684	7482
DI	5997	4189	6814	4626	4634	4895	6203	5929	4952	6393	5255	6794	7629	7230	5920	6087	5993	6105	7009	6313	6803	7468
DJ	5340	4089	6154	4146	4284	4457	5583	6044	4757	6542	4991	6188	7831	7391	5840	5585	5670	5719	6467	6065	6702	7504
DK	5393	4082	6207	4176	4301	4483	5630	6021	4759	6516	5000	6233	7801	7364	5832	5618	5685	5740	6505	6072	6696	7487
DL	5428	4064	6243	4189	4301	4492	5659	5992	4749	6485	4995	6260	7768	7333	5815	5633	5684	5745	6524	6066	6680	7463
DM	6129	4222	6946	4728	4713	4990	6329	5916	5002	6372	5318	6917	7596	7206	5946	6191	6066	6189	7120	6371	6832	7469
DN	11315	8515	12115	9866	9608	10050	11580	9001	9468	9184	9953	12170	9851	9786	9897	11336	10812	11091	12317	10877	10759	10694
DO	11463	8395	12271	9880	9564	10039	11678	8744	9356	8899	9861	12253	9510	9473	9715	11345	10731	11038	12345	10756	10565	10426
DP	11475	8402	12284	9890	9572	10049	11690	8747	9363	8901	9868	12265	9510	9473	9720	11355	10738	11046	12355	10762	10569	10429
DQ	11280	8346	12084	9760	9473	9931	11518	8776	9302	8949	9796	12100	9598	9542	9701	11228	10661	10953	12218	10708	10559	10466
DR	11464	8433	12271	9900	9592	10063	11686	8799	9393	8957	9895	12264	9575	9534	9761	11366	10764	11067	12363	10794	10612	10483
DS	11474	8443	12281	9911	9602	10073	11697	8808	9404	8966	9906	12274	9583	9543	9771	11377	10774	11078	12374	10804	10622	10492
DT	11524	8490	12331	9960	9651	10123	11747	8847	9450	9003	9953	12325	9615	9578	9814	11427	10822	11126	12424	10851	10665	10530
DU	11299	8398	12103	9797	9518	9972	11544	8842	9354	9017	9846	12128	9670	9612	9760	11266	10709	10998	12254	10760	10619	10532
DV	11381	8635	12179	9962	9715	10151	11658	9137	9586	9323	10068	12251	9993	9927	10025	11433	10926	11200	12410	10996	10889	10831
DW	11591	8534	12399	10017	9703	10178	11811	8873	9495	9024	10000	12387	9626	9593	9850	11483	10870	11177	12482	10894	10699	10554
DX	11332	8425	12136	9828	9547	10002	11577	8862	9382	9036	9874	12161	9684	9629	9785	11297	10738	11028	12285	10787	10643	10552
DY	11579	8536	12386	10012	9701	10174	11801	8883	9497	9037	10001	12379	9642	9608	9856	11478	10870	11175	12476	10896	10706	10565
DZ	11247	8223	12055	9680	9374	9844	11467	8617	9183	8784	9682	12044	9421	9370	9561	11146	10550	10851	12143	10585	10416	10304
EA	11195	8207	12002	9644	9347	9811	11421	8623	9165	8795	9662	12000	9442	9386	9555	11111	10528	10825	12106	10569	10411	10312
EB	11219	8219	12027	9663	9363	9829	11443	8627	9178	8797	9676	12021	9440	9386	9564	11130	10542	10840	12125	10581	10419	10315
EC	11360	8302	12168	9778	9465	9939	11575	8667	9263	8827	9766	12150	9449	9406	9628	11244	10635	10940	12243	10663	10480	10352
ED	11356	8310	12165	9781	9470	9942	11574	8681	9270	8841	9772	12150	9465	9421	9639	11247	10641	10945	12245	10671	10491	10365
EE	11269	8296	12075	9728	9433	9896	11499	8710	9254	8880	9750	12079	9524	9470	9644	11196	10616	10912	12189	10657	10500	10398
EF	11443	8373	12251	9858	9542	10018	11657	8724	9335	8879	9839	12232	9492	9454	9693	11323	10709	11016	12323	10734	10543	10406
EG	11999	9192	12796	10569	10305	10751	12276	9605	10148	9766	10639	12869	10379	10342	10548	12038	11502	11787	13019	11554	11404	11290
EH	12039	9214	12837	10600	10332	10781	12313	9614	10170	9772	10663	12905	10378	10345	10564	12070	11526	11814	13052	11576	11419	11298
EI	12099	9241	12897	10645	10369	10822	12368	9621	10199	9774	10694	12958	10370	10342	10582	12114	11558	11850	13099	11603	11435	11303
EJ	12005	9210	12802	10581	10319	10764	12285	9627	10165	9788	10656	12878	10403	10365	10567	12051	11518	11802	13031	11572	11424	11312
EK	11867	9007	12667	10405	10130	10582	12131	9408	9964	9568	10457	12720	10181	10144	10355	11874	11321	11611	12859	11368	11210	11092
EL	11837	8996	12636	10384	10113	10563	12104	9409	9952	9572	10445	12694	10191	10151	10350	11853	11308	11595	12837	11358	11206	11095
EM	11885	9027	12685	10425	10151	10603	12150	9428	9984	9588	10478	12740	10200	10163	10376	11894	11342	11632	12879	11389	11231	11112
EN	11868	9033	12667	10419	10150	10599	12137	9445	9989	9608	10481	12728	10226	10186	10387	11888	11344	11631	12871	11395	11243	11131
EO	11905	9049	12705	10446	10173	10624	12171	9449	10007	9608	10500	12761	10220	10184	10398	11916	11364	11654	12900	11411	11253	11133
EP	11683	8783	12485	10194	9912	10368	11936	9185	9740	9347	10235	12522	9968	9927	10130	11662	11100	11392	12650	11144	10985	10870
EQ	11889	9058	12688	10443	10174	10623	12159	9471	10015	9633	10506	12750	10249	10211	10412	11912	11369	11656	12895	11420	11268	11156
ER	11691	8812	12493	10214	9936	10390	11949	9223	9769	9387	10263	12536	10011	9968	10163	11683	11127	11417	12669	11174	11019	10909
ES	12025	9177	12824	10574	10301	10753	12295	9569	10135	9726	10629	12885	10329	10297	10523	12044	11493	11782	13028	11539	11377	11252
ET	11715	8849	12516	10245	9970	10423	11975	9264	9806	9428	10299	12564	10052	10010	10203	11714	11162	11452	12700	11211	11059	10950
EU	12033	9192	12831	10586	10315	10765	12304	9587	10150	9743	10643	12895	10348	10315	10540	12055	11507	11796	13039	11554	11394	1127

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

WTG																							
NSA	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	
A	8481	7773	7278	9110	5462	4211	3318	2612	1585	1237	11831	18605	17045	18486	16588	13380	14258	15696	16076	15117	12774	11939	
B	8024	7344	6883	8622	5754	4483	3678	2970	1765	1623	12005	18960	17260	18645	16923	13788	14617	15949	16236	15251	12942	12218	
C	8788	8112	7649	9378	6030	4785	3869	3168	2171	1802	12415	19141	17624	19071	17134	13887	14792	16268	16661	15703	13358	12504	
D	8753	8077	7615	9343	6017	4771	3859	3158	2150	1789	12397	19134	17609	19053	17125	13884	14786	16255	16643	15684	13341	12492	
E	9807	8956	8274	10646	2382	1810	1170	1614	2905	2762	8821	14842	13749	15408	12883	9523	10498	12265	13028	12211	9760	8461	
F	4710	5429	6008	4214	12829	12489	13053	12951	12353	12973	13246	21495	17225	17090	19471	18710	18306	17084	15418	14265	13616	15222	
G	4695	5406	5981	4212	12783	12448	13018	12918	12328	12948	13178	21424	17153	17016	19401	18646	18239	17013	15345	14193	13547	15156	
H	4732	5443	6016	4249	12814	12481	13052	12953	12364	12984	13195	21437	17161	17020	19415	18667	18258	17025	15353	14201	13561	15175	
I	4309	4962	5495	3938	12176	11873	12469	12392	11843	12469	12509	20765	16517	16414	18738	17976	17569	16358	14714	13557	12883	14485	
J	4853	5628	6253	4244	13228	12833	13354	13218	12561	13172	13864	22140	17897	17775	20108	19282	18910	17737	16093	14937	14253	15817	
K	4871	5648	6273	4260	13251	12854	13375	13238	12580	13191	13887	22163	17919	17796	20131	19306	18934	17759	16114	14959	14276	15840	
L	4565	5254	5812	4125	12563	12243	12824	12734	12162	12785	12919	21166	16899	16771	19142	18391	17982	16755	15093	13939	13288	14899	
M	4455	5128	5674	4045	12392	12080	12669	12585	12024	12649	12733	20982	16722	16604	18958	18204	17795	16573	14918	13763	13103	14711	
N	4462	5136	5683	4052	12402	12090	12678	12595	12033	12658	12742	20992	16731	16612	18967	18214	17804	16582	14926	13771	13113	14721	
O	4533	5214	5766	4107	12498	12183	12769	12683	12116	12740	12838	21084	16818	16692	19061	18312	17901	16674	15012	13858	13207	14819	
P	4728	5492	6109	4143	13060	12673	13202	13072	12427	13040	13674	21951	17712	17597	19918	19094	18720	17548	15908	14752	14063	15627	
Q	4268	4823	5282	4052	11711	11470	12112	12072	11593	12226	11816	20049	15785	15681	18028	17322	16887	15638	13982	12826	12175	13812	
R	4279	4835	5294	4062	11723	11483	12125	12085	11606	12239	11826	20058	15793	15687	18037	17333	16897	15646	13989	12833	12184	13823	
S	4363	5013	5543	3995	12211	11912	12511	12436	11891	12518	12516	20766	16510	16399	18741	17991	17579	16358	14706	13550	12887	14497	
T	4251	4882	5399	3917	12031	11740	12346	12277	11744	12371	12326	20581	16334	16235	18554	17798	17388	16174	14532	13374	12699	14305	
U	4602	5353	5960	4047	12880	12504	13042	12919	12288	12903	13466	21744	17508	17400	19710	18889	18513	17341	15706	14548	13855	15420	
V	3994	4516	4956	3838	11351	11112	11757	11722	11253	11887	11516	19775	15547	15483	17746	16998	16579	15371	13751	12589	11891	13498	
W	4389	5012	5521	4065	12112	11834	12448	12385	11862	12491	12331	20569	16301	16183	18547	17823	17399	16157	14496	13341	12694	14320	
X	4406	5030	5540	4078	12134	11856	12469	12406	11882	12510	12351	20587	16318	16198	18566	17844	17419	16176	14513	13358	12713	14341	
Y	4292	4893	5386	4007	11930	11662	12284	12229	11719	12349	12128	20370	16110	16003	18347	17620	17196	15960	14306	13150	12493	14117	
Z	4280	4876	5366	4002	11900	11635	12259	12204	11698	12328	12094	20336	16077	15971	18313	17586	17161	15926	14273	13117	12459	14083	
AA	4364	4977	5479	4056	12047	11775	12393	12334	11817	12446	12250	20487	16221	16105	18466	17744	17318	16076	14416	13261	12612	14240	
AB	4758	5518	6130	4183	13064	12684	13218	13092	12453	13067	13645	21916	17669	17548	19885	19074	18694	17511	15865	14709	14030	15603	
AC	4778	5536	6148	4203	13080	12701	13235	13110	12472	13085	13653	21922	17672	17549	19892	19084	18703	17516	15868	14712	14037	15612	
AD	4286	4908	5416	3968	12017	11735	12347	12283	11758	12386	12272	20520	16266	16161	18495	17753	17336	16111	14463	13306	12641	14255	
AE	4290	4909	5415	3977	12007	11728	12341	12278	11756	12385	12253	20500	16244	16139	18475	17736	17318	16091	14441	13284	12621	14237	
AF	4301	4921	5428	3984	12023	11743	12356	12292	11769	12398	12268	20514	16258	16151	18490	17752	17333	16105	14454	13298	12636	14253	
AG	4799	5596	6239	4145	13280	12856	13354	13202	12518	13124	14052	22350	18134	18035	20310	19435	19086	17953	16334	15175	14455	15986	
AH	4788	5584	6226	4136	13265	12842	13341	13190	12507	13113	14035	22332	18116	18018	20293	19418	19068	17936	16317	15157	14438	15969	
AI	4265	4853	5337	3999	11853	11591	12219	12167	11665	12296	12033	20275	16016	15912	18252	17527	17101	15865	14213	13056	12398	14023	
AJ	4306	4902	5393	4026	11925	11661	12285	12231	11725	12355	12110	20349	16087	15978	18327	17605	17178	15938	14283	13127	12473	14101	
AK	4281	4870	5355	4014	11871	11610	12237	12186	11684	12123	12048	20287	16026	15921	18265	17542	17116	15877	14223	13067	12411	14038	
AL	4255	4834	5312	4004	11806	11550	12181	12133	11637	12268	11971	20211	15952	15850	18188	17467	17039	15801	14149	12992	12334	13962	
AM	4300	4889	5374	4031	11889	11628	12256	12205	11703	12334	12059	20296	16033	15925	18274	17556	17127	15885	14229	13074	12421	14050	
AN	4715	5503	6140	4079	13161	12746	13251	13105	12431	13039	13307	22204	17988	17891	20164	19294	18942	17807	16188	15029	14309	15843	
AO	4726	5472	6073	4179	12970	12603	13148	13040	12406	13022	13496	21761	17507	17382	19732	18936	18549	17354	15702	14547	13877	15460	
AP	4633	5370	5965	4104	12845	12483	13033	12919	12302	12919	13362	21628	17379	17261	19598	18801	18414	17222	15575	14419	13744	15324	
AQ	4746	5534	6169	4113	13186	12772	13280	13134	12462	13070	13918	22211	17991	17890	20173	19309	18954	17813	16191	15032	14318	15856	
AR	4772	5560	6196	4138	13213	12799	13307	13161	12488	13096	13402	22332	18009	17906	20194	19333	18977	17833	16208	15050	14339	15879	
AS	4648	5386	5981	4118	12861	12500	13050	12935	12318	12935	13376	21641	17391	17271	19612	18816	18429	17235	15587	14431	13757	15339	
AT	4813	5563	6168	4255	13073	12704	13246	13126	12498	13113	13595	21856	17596	17463	19828	19039	18650	17448	15790	14636	13974	15561	
AU	4811	5560	6164	4255	13066	12698	13241	13122	12495	13110	13584	18444	17584	17451	19817	19029	18639	17436	15777	14624	13962	15550	
AV	4650	5385	5979	4124	12852	12494	13045	12932	12317	12934	13357	21621	17369	17248	19592	18800	18411	17215	15565	14409	13737	15322	
AW	4755	5541	6176	4125	13188	12776	13285	13141	12470	13079	13908	22200	17977	17874	20162	19303	18946	17801	16176	15018	14307	15848	
AX	4856	5646	6283	4215	13302	12888	13395	13248	12573	13180	14021	22310	18080	17970	20273	19419	19060	17909	16278	15121	14418	15963	
AY	4743	5522	6150	4129	13142	12739	13255	13115	12454	13064	13825	22112	17883	17776	20076	19229	18866	17712	16082	14924	14221	15770	
AZ	4838	5626	6262	4202	13276	12864	13372	13227	12554	13162	13987	22275	18045	17935	20238	19386	19027	17875	16243	15086	14383	15930	
BA	4646	5380	5972	4123	12841	12483	13036	12924	12311	12928	13339	21603	17350	17229	19574	18783	18393	17196	15546	14390	13719	15305	
BB	4756	5538	6168	4134	13168	12762	13275	13134	12468	13078	13866	22154	17927	17821	20118	19266	18906	17755	16126	14968	14263	15809	
BC	4745	5526	6157	4125																			

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-20 8:26 AM/4.0.424

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

WTG																									
NSA	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66			
BR	5962	5946	5930	6355	9935	10116	11005	11195	11150	11779	8323	16312	11925	11785	14347	14065	13426	11875	10109	8966	8541	10456			
BS	6468	6375	6288	6922	9716	9986	10913	11147	11187	11808	7705	15622	11210	11067	13670	13484	12799	11182	9392	8253	7885	9863			
BT	6308	6292	6271	6695	10124	10340	11243	11448	11429	12056	8278	16186	11748	11556	14240	14052	13373	11745	9925	8794	8459	10434			
BU	5998	5985	5970	6388	9969	10153	11043	11234	11190	11819	8335	16314	11920	11773	14352	14081	13437	11877	10103	8962	8548	10471			
BV	6530	6435	6345	6986	9731	10008	10939	11176	11223	11843	7674	15578	11159	11009	13629	13458	12767	11137	9340	8202	7848	9836			
BW	6545	6445	6350	7004	9706	9988	10920	11159	11210	11830	7636	15540	11122	10976	13591	13420	12728	11099	9303	8165	7810	9799			
BX	5503	5544	5582	5851	10021	10130	10984	11139	11026	11660	8756	16817	12467	12352	14836	14456	13861	12385	10656	9507	9011	10862			
BY	4261	4785	5221	4091	11569	11346	12001	11972	11512	12146	11614	19842	15576	15474	17823	17129	16688	15430	13773	12617	11970	13615			
BZ	4264	4775	5201	4112	11515	11299	11959	11934	11483	12118	11534	19759	15492	15390	17740	17053	16608	15347	13689	12532	11887	13537			
CA	4286	4798	5226	4131	11540	11325	11984	11960	11509	12143	11552	19775	15505	15400	17757	17073	16627	15362	13701	12545	11904	13556			
CB	4272	4779	5202	4125	11504	11291	11953	11930	11481	12116	11512	19736	15468	15365	17717	17034	16587	15323	13664	12508	11865	13516			
CC	4285	4793	5217	4137	11518	11306	11968	11945	11496	12131	11522	19744	15474	15369	17726	17045	16597	15331	13670	12514	11874	13527			
CD	6146	6120	6092	6546	9969	10174	11073	11274	11249	11877	8225	16177	11769	11611	14220	13983	13324	11738	9950	8812	8425	10369			
CE	6160	6129	6097	6564	9948	10156	11057	11260	11239	11866	8190	16142	11734	11578	14185	13949	13289	11703	9916	8777	8390	10335			
CF	5223	5273	5325	5570	9921	9998	10837	10976	10837	11473	8850	16961	12648	12569	14968	14517	13952	12535	10844	9688	9132	10935			
CG	5239	5292	5347	5581	9949	10026	10865	11004	10865	11500	8869	16977	12660	12575	14985	14539	13972	12550	10854	9700	9149	10956			
CH	5271	5311	5353	5626	9892	9978	10822	10966	10836	11471	8784	16890	12575	12495	14898	14456	13887	12464	10770	9615	9063	10872			
CI	5292	5334	5377	5644	9914	10001	10845	10990	10860	11495	8792	16894	12575	12490	14903	14467	13895	12467	10769	9615	9069	10882			
CJ	5310	5343	5379	5671	9874	9967	10814	10962	10838	11473	8736	16838	12520	12439	14847	14412	13839	12411	10715	9560	9012	10826			
CK	6646	6559	6473	7094	9844	10129	11063	11303	11354	11973	7710	15577	11136	10961	13637	13503	12797	11135	9314	8181	7868	9880			
CL	7219	7067	6920	7717	9693	10071	11040	11324	11462	12070	7106	14868	10396	10211	12945	12928	12169	10425	8570	7444	7213	9299			
CM	7209	7060	6916	7704	9711	10086	11054	11337	11472	12081	7134	14895	10422	10234	12973	12956	12197	10452	8596	7470	7241	9326			
CN	7630	7473	7318	8126	9887	10307	11290	11592	11764	12368	7009	14643	10118	9874	12745	12846	12040	10202	8286	7175	7064	9218			
CO	6668	6578	6489	7118	9833	10123	11058	11300	11355	11974	7682	15546	11104	10929	13606	13477	12769	11104	9282	8149	7839	9853			
CP	7673	7515	7359	8170	9902	10327	11312	11616	11792	12395	6993	14614	10084	9835	12719	12831	12020	10172	8251	7142	7042	9203			
CQ	7276	7127	6983	7769	9755	10136	11105	11391	11530	12138	7131	14871	10388	10189	12953	12956	12190	10428	8561	7438	7229	9327			
CR	7717	7559	7403	8214	9928	10357	11343	11649	11828	12430	6989	14594	10058	9802	12702	12828	12012	10154	8225	7118	7033	9200			
CS	7393	7246	7101	7883	9829	10220	11194	11483	11631	12238	7125	14826	10326	10106	12916	12955	12174	10384	8496	7378	7207	9325			
CT	10791	10275	9800	11556	8265	9228	10301	10853	11569	12031	2546	9663	5413	5873	7736	8175	7156	5223	3710	2519	2199	4670			
CU	7791	7628	7467	8291	9933	10372	11361	11672	11859	12460	6938	14523	9981	9720	12635	12778	11955	10083	8147	7042	6973	9151			
CV	7772	7616	7461	8267	9975	10408	11395	11703	11884	12486	7001	14585	10039	9771	12697	12841	12018	10145	8205	7102	7037	9214			
CW	6953	6821	6694	7437	9696	10036	10991	11258	11362	11975	7313	15134	10683	10513	13200	13123	12390	10691	8860	7729	7447	9495			
CX	7446	7292	7142	7942	9809	10209	11186	11480	11636	12241	7061	14753	10251	10032	12844	12893	12108	10311	8421	7303	7139	9264			
CY	7829	7665	7502	8331	9944	10387	11377	11690	11882	12482	6921	14494	9947	9682	12607	12761	11933	10054	8113	7009	6951	9135			
CZ	7850	7682	7515	8355	9923	10371	11363	11678	11874	12473	6881	14452	9906	9643	12565	12722	11892	10012	8072	6968	6910	9096			
DA	6472	6407	6342	6901	9899	10156	11077	11303	11327	11949	7904	15800	11369	11197	13854	13686	12996	11359	9547	8413	8076	10065			
DB	6570	6470	6376	7029	9724	10008	10941	11181	11234	11853	7637	15533	11112	10961	13586	13423	12728	11093	9292	8155	7807	9801			
DC	6422	6382	6339	6830	10035	10274	11187	11404	11408	12033	8092	15985	11545	11357	14041	13873	13185	11543	9722	8590	8265	10252			
DD	7918	7750	7583	8422	9962	10416	11410	11728	11929	12528	6874	14420	9865	9591	12538	12716	11878	9981	8030	6929	6894	9090			
DE	6555	6469	6387	7002	9806	10081	11011	11247	11290	11910	7737	15627	11198	11035	13682	13524	12828	11186	9377	8242	7906	9902			
DF	6553	6471	6391	6998	9827	10100	11029	11264	11304	11925	7762	15650	11219	11052	13705	13549	12852	11209	9397	8263	7930	9926			
DG	7086	6942	6803	7579	9680	10040	11003	11279	11401	12012	7194	14988	10528	10352	13059	13010	12265	10545	8704	7574	7315	9381			
DH	7060	6924	6792	7546	9724	10077	11037	11309	11424	12036	7262	15055	10593	10411	13128	13077	12333	10613	8768	7640	7384	9449			
DI	6592	6506	6423	7038	9828	10107	11038	11275	11320	11940	7734	15614	11180	11011	13671	13523	12823	11173	9358	8224	7898	9901			
DJ	7097	6956	6821	7586	9714	10073	11035	11310	11431	12042	7223	15010	10545	10363	13083	13040	12293	10567	8721	7592	7342	9412			
DK	6588	6507	6427	7031	9853	10130	11059	11295	11338	11958	7765	15642	11206	11033	13700	13554	12854	11201	9383	8250	7928	9931			
DL	6623	6535	64																						

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

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NSA	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
EH	13048	12776	12495	13613	12561	13430	14504	15005	15575	16091	6790	11318	6382	5172	9937	11711	10331	7342	4769	4289	6121	8622
EI	13079	12805	12522	13646	12558	13431	14506	15008	15582	16097	6770	11270	6333	5120	9892	11676	10293	7299	4725	4252	6097	8595
EJ	13123	12844	12557	13694	12547	13426	14501	15005	15586	16099	6734	11192	6255	5040	9818	11617	10229	7227	4651	4189	6053	8547
EK	13061	12791	12510	13624	12585	13454	14528	15028	15597	16113	6815	11336	6399	5183	9957	11735	10354	7363	4790	4312	6146	8647
EL	12883	12605	12318	13454	12364	13232	14306	14806	15377	15893	6612	11266	6329	5184	9856	11575	10209	7250	4688	4166	5954	8462
EM	12862	12587	12303	13431	12376	13240	14315	14813	15380	15897	6638	11312	6375	5229	9900	11613	10249	7294	4732	4207	5984	8494
EN	12903	12625	12339	13474	12382	13251	14325	14826	15397	15912	6626	11264	6327	5175	9857	11583	10215	7253	4689	4172	5966	8473
EO	12898	12623	12339	13466	12409	13275	14349	14848	15416	15933	6665	11311	6374	5216	9905	11629	10262	7301	4737	4220	6008	8516
EP	12925	12647	12361	13495	12402	13271	14345	14846	15418	15933	6641	11261	6324	5165	9858	11591	10221	7255	4689	4178	5979	8485
EQ	12671	12388	12099	13247	12154	13016	14090	14588	15155	15672	6443	11265	6331	5259	9820	11468	10121	7203	4657	4083	5803	8320
ER	12922	12647	12364	13490	12433	13299	14374	14873	15441	15957	6684	11311	6374	5208	9909	11641	10272	7306	4740	4229	6025	8532
ES	12691	12411	12124	13265	12197	13058	14132	14629	15194	15711	6490	11297	6363	5278	9858	11513	10164	7242	4693	4125	5850	8366
ET	13053	12776	12490	13622	12509	13383	14458	14960	15537	16050	6718	11235	6298	5100	9852	11627	10246	7256	4684	4204	6045	8544
EU	12723	12445	12159	13295	12239	13100	14174	14671	15235	15753	6529	11311	6376	5278	9878	11544	10192	7263	4712	4152	5886	8402
EV	13065	12788	12503	13633	12527	13401	14476	14978	15554	16068	6737	11246	6309	5105	9865	11644	10262	7270	4697	4220	6063	8562
EW	13046	12772	12489	13613	12534	13406	14480	14981	15554	16069	6755	11282	6345	5141	9899	11672	10292	7304	4731	4250	6085	8585
EX	7617	7455	7296	8119	9839	10261	11245	11548	11723	12326	6963	14607	10088	9855	12707	12800	11996	10166	8257	7144	7021	9171
EY	7579	7418	7260	8079	9829	10247	11229	11531	11702	12305	6982	14638	10123	9893	12736	12818	12019	10196	8292	7178	7045	9189
EZ	12265	11976	11683	12847	11783	12631	13705	14197	14753	15272	6171	11317	6399	5460	9810	11318	10009	7176	4671	3999	5571	8102
FA	12849	12568	12279	13422	12310	13179	14253	14754	15326	15841	6558	11236	6300	5171	9820	11527	10164	7212	4652	4122	5901	8410
FB	8093	7383	6758	8982	4470	5284	6358	6872	7546	8016	3280	11609	8535	9591	9468	8068	7849	7615	7217	6142	4089	4730
FC	5511	4721	4140	6266	4539	3449	3404	3032	2215	2835	9827	17484	15156	16326	15367	12721	13240	14020	13942	12878	10725	10485
FD	8434	7740	7261	9047	5660	4404	3525	2818	1746	1442	12006	18816	17231	18659	16796	13596	14469	15889	16249	15284	12948	12136
FE	8279	7578	7090	8902	5500	4239	3381	2672	1561	1300	11825	18673	17057	18477	16648	13470	14327	15722	16066	15098	12767	11974
FF	7381	6725	6293	7956	5926	4652	3970	3283	1973	2047	11996	19164	17288	18605	17102	14073	14834	16026	16201	15187	12925	12336
FG	7108	6290	5662	7894	3394	2144	1796	1369	954	1550	9439	16615	14713	16072	14540	11616	12300	13440	13663	12675	10374	9752
FH	10379	9909	9473	11112	8551	9441	10517	11037	11675	12166	3234	10371	5990	6223	8472	8933	7926	5928	4218	3038	2962	5403
FI	10738	10223	9749	11502	8246	9204	10277	10828	11538	12003	2566	9717	5469	5922	7787	8211	7198	5277	3765	2573	2236	4699
FJ	10618	10103	9628	11383	8163	9112	10186	10733	11436	11904	2563	9810	5582	6043	7872	8245	7252	5373	3883	2691	2277	4716
FK	12618	12140	11690	13351	9969	11003	12067	12649	13424	13865	3643	8643	3936	3985	6956	8337	7013	4308	2099	1074	2838	5265
FL	12734	12261	11816	13462	10124	11158	12223	12804	13578	14020	3792	8639	3894	3868	6979	8428	7087	4329	2054	1097	2978	5390
FM	12631	12165	11725	13356	10121	11145	12211	12788	13550	13996	3828	8782	4035	3973	7119	8539	7208	4470	2195	1236	3034	5469
FN	5212	5382	5530	5437	10555	10580	11388	11496	11291	11930	9583	17663	13304	13156	15680	15257	14687	13231	11489	10345	9852	11674
FO	5185	5334	5466	5433	10430	10461	11274	11386	11191	11829	9454	17543	13195	13062	15558	15125	14557	13113	11383	10236	9727	11543

NSA	67	68	69	70	71	72	73	74	75	76	77	78
A	10745	15370	14518	18962	18766	15081	17161	18548	18242	14030	13703	17708
B	10968	15782	14845	19199	19083	15384	17590	18989	18468	14183	13991	17960
C	11324	15875	15068	19536	19318	15638	17653	19031	18819	14615	14266	18280
D	11309	15872	15059	19522	19309	15628	17651	19030	18804	14597	14254	18267
E	7543	11507	10848	15559	15100	11477	13276	14655	14888	11057	10164	14260
F	13597	20255	17794	19143	20760	17714	22068	23496	18348	14005	16478	18517
G	13532	20189	17725	19069	20688	17644	22001	23429	18275	13934	16409	18445
H	13553	20208	17742	19077	20700	17659	22019	23447	18282	13945	16426	18454
I	12862	19518	17057	18443	20038	16980	21331	22760	17646	13283	15742	17804
J	14182	20850	18412	19820	21418	18346	22673	24107	19024	14662	17098	19185
K	14205	20874	18436	19841	21441	18369	22697	24130	19045	14685	17121	19207
L	13276	19931	17467	18818	20432	17385	21743	23171	18023	13677	16151	18190
M	13089	19744	17280	18644	20251	17200	21556	22984	17849	13496	15965	18012
N	13099	19754	17290	18653	20260	17210	21566	22994	17857	13505	15974	18021
O	13197	19852	17386	18738	20350	17304	21663	23090	17942	13595	16070	18109
P	13992	20661	18222	19636	21231	18156	22483	23917	18840	14475	16908	18999
Q	12200	18843	16362	17710	19314	16274	20647	22071	16913	12559	15046	17075
R	12211	18853	16372	17716	19322	16283	20657	22081	16920	12567	15056	17082
S	12875	19529	17064	18434	20036	16984	21340	22768	17637	13280	15748	17799
T	12683	19337	16874	18261	19854	16796	21149	22577	17464	13098	15559	17621
U	13786	20454	18014	19434	21024	17948	22276	23709	18637	14268	16700	18795
V	11879	18530	16064	17483	19055	15987	20340	21768	16684	12299	14749	16830
W	12704	19352	16878	18222	19833	16792	21159	22585	17427	13078	15562	17592
X	12725	19372	16898	18239	19851	16811	21180	22605	17443	13096	15582	17609
Y	12500	19149	16676	18034	19637	16591	20956	22382	17237	12882	15359	17399
Z	12466	19114	16641	18001	19603	16557	20922	22348	17205	12848	15325	17366
AA	12624	19272	16797	18142	19752	16711	21079	22504	17346	12997	15480	17511
AB	13970	20636	18193	19592	21192	18124	22457	23890	18796	14437	16879	18958
AC	13979	20645	18201	19594	21197	18131	22465	23898	18798	14441	16886	18962
AD	12636	19287	16820	18191	19790	16738	21097	22524	17394	13034	15504	17554

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-20 8:26 AM/4.0.424

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

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WTG	NSA	67	68	69	70	71	72	73	74	75	76	77	78
AE	12618	19269	16800	18169	19769	16718	21079	22505	17372	13013	15484	17532	
AF	12634	19285	16816	18182	19783	16734	21094	22521	17386	13028	15500	17546	
AG	14344	21019	18599	20064	21640	18544	22849	24286	19267	14884	17286	19418	
AH	14327	21002	18582	20047	21623	18527	22831	24269	19249	14867	17269	19400	
AI	12407	19054	16581	17941	19542	16496	20862	22287	17144	12787	15264	17305	
AJ	12485	19132	16657	18010	19615	16572	20939	22364	17214	12860	15341	17376	
AK	12422	19069	16595	17951	19554	16509	20876	22301	17154	12799	15278	17316	
AL	12346	18993	16518	17877	19478	16433	20800	22225	17081	12723	15202	17241	
AM	12435	19081	16606	17957	19562	16519	20888	22313	17161	12807	15289	17323	
AN	14202	20876	18454	19918	21494	18399	22705	24142	19121	14738	17141	19272	
AO	13830	20494	18045	19428	21034	17972	22312	23743	18633	14278	16730	18797	
AP	13694	20358	17910	19302	20903	17838	22177	23608	18506	14147	16595	18668	
AQ	14216	20890	18465	19920	21500	18408	22717	24154	19123	14743	17152	19275	
AR	14240	20913	18487	19938	21519	18429	22740	24176	19141	14763	17174	19294	
AS	13709	20373	17924	19313	20915	17852	22191	23622	18518	14160	16609	18680	
AT	13932	20595	18143	19515	21126	18069	22412	23843	18720	14371	16828	18887	
AU	13921	20584	18132	19502	21114	18058	22401	23832	18707	14359	16817	18875	
AV	13692	20355	17905	19291	20895	17833	22173	23604	18496	14139	16590	18659	
AW	14209	20882	18456	19906	21487	18397	22709	24145	19108	14731	17142	19262	
AX	14324	20997	18569	20007	21594	18509	22823	24259	19210	14838	17255	19367	
AY	14132	20803	18373	19811	21396	18312	22629	24064	19014	14640	17059	19169	
AZ	14291	20963	18535	19972	21559	18475	22789	24225	19175	14803	17221	19332	
BA	13675	20338	17888	19272	20876	17815	22156	23587	18476	14120	16573	18640	
BB	14171	20843	18414	19855	21440	18354	22669	24104	19058	14683	17100	19213	
BC	14156	20829	18400	19842	21426	18340	22655	24090	19045	14670	17086	19200	
BD	13959	20620	18164	19516	21135	18087	22436	23865	18721	14381	16849	18892	
BE	13392	20053	17601	18991	20590	17527	21870	23300	18195	13834	16285	18355	
BF	13404	20065	17611	18997	20598	17537	21881	23311	18201	13842	16296	18363	
BG	14075	20745	18310	19736	21326	18247	22569	24003	18939	14570	16996	19097	
BH	14229	20899	18464	19884	21478	18401	22723	24157	19088	14722	17150	19247	
BI	9307	15838	13271	14450	16081	13128	17597	18996	13653	9333	11954	13822	
BJ	8560	14970	12345	13317	15011	12156	16692	18069	12525	8287	11033	12723	
BK	8549	14958	12332	13303	14998	12143	16679	18057	12511	8273	11021	12710	
BL	8749	15159	12532	13479	15186	12341	16879	18256	12689	8466	11221	12893	
BM	8737	15145	12517	13459	15168	12325	16864	18241	12669	8448	11206	12874	
BN	8711	15118	12490	13433	15141	12297	16837	18213	12643	8421	11178	12848	
BO	9002	15412	12783	13696	15421	12589	17131	18507	12908	8706	11472	13122	
BP	9253	15772	13196	14345	15986	13047	17527	18923	13549	9242	11880	13723	
BQ	8342	14721	12085	13024	14726	11887	16434	17808	12233	8006	10775	12434	
BR	8962	15416	12808	13827	15512	12632	17150	18534	13035	8781	11494	13229	
BS	8406	14794	12161	13108	14808	11966	16510	17884	12317	8087	10851	12517	
BT	8968	15368	12735	13632	15362	12538	17084	18458	12844	8650	11425	13060	
BU	8979	15428	12816	13820	15511	12638	17159	18542	13028	8782	11503	13226	
BV	8385	14762	12125	13054	14761	11926	16475	17848	12263	8042	10815	12467	
BW	8348	14724	12087	13019	14723	11888	16437	17809	12228	8004	10777	12430	
BX	9335	15846	13264	14379	16035	13110	17596	18990	13584	9293	11948	13766	
BY	12005	18645	16160	17501	19105	16069	20447	21870	16704	12351	14843	16866	
BZ	11928	18566	16079	17417	19022	15987	20367	21790	16620	12267	14762	16782	
CA	11948	18585	16097	17428	19036	16004	20386	21808	16632	12282	14780	16795	
CB	11908	18545	16057	17392	18998	15965	20346	21768	16595	12243	14741	16757	
CC	11919	18555	16067	17398	19005	15973	20356	21778	16601	12251	14750	16764	
CD	8889	15317	12697	13664	15367	12511	17042	18422	12874	8643	11385	13077	
CE	8856	15282	12662	13630	15332	12476	17007	18387	12839	8608	11350	13042	
CF	9390	15932	13371	14572	16196	13233	17695	19096	13775	9447	12054	13941	
CG	9412	15953	13390	14582	16210	13250	17714	19115	13785	9461	12073	13953	
CH	9329	15868	13304	14498	16124	13164	17629	19029	13701	9375	11987	13868	
CI	9341	15877	13311	14497	16125	13170	17637	19036	13700	9378	11994	13868	
CJ	9286	15821	13254	14443	16070	13113	17581	18980	13646	9322	11938	13813	
CK	8440	14794	12148	13023	14750	11940	16500	17868	12234	8041	10840	12448	
CL	7911	14169	11496	12276	14024	11263	15851	17207	11488	7333	10194	11711	
CM	7938	14197	11524	12301	14051	11291	15879	17235	11514	7361	10222	11738	
CN	7877	14040	11343	11975	13773	11083	15699	17041	11193	7118	10049	11441	
CO	8415	14766	12119	12991	14718	11910	16471	17839	12202	8010	10811	12416	
CP	7868	14021	11321	11938	13741	11059	15677	17017	11157	7090	10028	11407	
CQ	7946	14190	11512	12263	14022	11275	15868	17222	11476	7338	10212	11705	
CR	7870	14012	11310	11910	13719	11045	15666	17005	11129	7072	10018	11383	

To be continued on next page...

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

WTG	NSA	67	68	69	70	71	72	73	74	75	76	77	78
CS	7958	14174	11490	12193	13969	11244	15846	17195	11408	7295	10191	11645	
CT	3881	9144	6388	7423	8873	6080	10732	12048	6609	2128	5129	6658	
CU	7830	13955	11249	11831	13645	10980	15605	16941	11050	7003	9959	11306	
CV	7891	14018	11313	11887	13705	11043	15668	17005	11107	7066	10022	11365	
CW	8081	14389	11729	12569	14301	11510	16083	17446	11780	7598	10424	11995	
CX	7902	14108	11421	12117	13894	11174	15777	17126	11333	7223	10124	11570	
CY	7818	13933	11226	11795	13613	10954	15581	16916	11015	6975	9936	11273	
CZ	7781	13893	11184	11755	13571	10912	15540	16875	10975	6933	9895	11232	
DA	8611	14992	12354	13258	14978	12153	16704	18076	12469	8264	11045	12680	
DB	8353	14724	12085	13006	14715	11884	16435	17807	12216	7998	10775	12420	
DC	8795	15180	12543	13429	15159	12341	16893	18265	12641	8449	11233	12857	
DD	7785	13878	11166	11709	13535	10889	15521	16853	10930	6905	9878	11192	
DE	8454	14824	12184	13089	14806	11982	16534	17906	12299	8091	10875	12508	
DF	8478	14849	12208	13109	14827	12005	16558	17929	12319	8114	10899	12529	
DG	7980	14264	11598	12411	14150	11373	15953	17312	11623	7452	10294	11841	
DH	8046	14332	11667	12475	14217	11441	16022	17381	11687	7520	10363	11907	
DI	8456	14820	12177	13069	14790	11972	16528	17898	12279	8078	10868	12490	
DJ	8012	14292	11625	12427	14170	11398	15980	17338	11639	7474	10321	11860	
DK	8486	14850	12207	13093	14817	12002	16558	17928	12304	8106	10898	12517	
DL	8437	14796	12152	13036	14760	11945	16503	17872	12247	8049	10843	12459	
DM	8394	14752	12107	12994	14716	11901	16458	17827	12205	8005	10799	12416	
DN	7922	14182	11510	12294	14041	11279	15866	17222	11506	7349	10208	11729	
DO	7867	12176	9390	8083	10420	8813	13455	14572	7411	5042	8344	7968	
DP	7402	11650	8863	7657	9947	8288	12935	14060	6967	4519	7818	7495	
DQ	7395	11637	8850	7642	9932	8275	12921	14046	6952	4508	7806	7480	
DR	7586	11924	9134	7937	10236	8567	13218	14347	7251	4772	8079	7784	
DS	7477	11721	8935	7701	10001	8358	13003	14125	7014	4595	7892	7549	
DT	7481	11720	8934	7694	9996	8357	13000	14122	7008	4595	7892	7544	
DU	7497	11708	8923	7657	9966	8343	12982	14101	6973	4594	7887	7513	
DV	7661	11986	9197	7966	10276	8626	13275	14400	7284	4840	8145	7824	
DW	8005	12277	9493	8116	10475	8910	13543	14653	7452	5159	8456	8023	
DX	7480	11655	8872	7584	9896	8288	12924	14039	6901	4553	7841	7444	
DY	7664	11971	9183	7937	10250	8610	13256	14379	7256	4831	8134	7798	
DZ	7505	11685	8902	7611	9925	8318	12954	14069	6928	4582	7871	7473	
EA	7394	11758	8966	7852	10122	8405	13064	14201	7156	4591	7903	7671	
EB	7442	11831	9038	7928	10200	8480	13140	14278	7233	4659	7972	7749	
EC	7429	11806	9013	7898	10170	8454	13113	14250	7203	4637	7949	7719	
ED	7376	11681	8891	7738	10015	8324	12977	14109	7044	4531	7837	7564	
EE	7397	11702	8913	7753	10033	8345	12998	14129	7060	4553	7859	7581	
EF	7504	11851	9061	7898	10184	8496	13150	14282	7207	4694	8002	7733	
EG	7389	11649	8861	7669	9955	8288	12936	14063	6977	4514	7814	7503	
EH	8198	12143	9383	7689	10123	8759	13342	14410	7055	5163	8404	7678	
EI	8181	12102	9344	7638	10073	8718	13298	14364	7004	5132	8368	7629	
EJ	8146	12035	9278	7557	9994	8650	13226	14290	6924	5078	8308	7550	
EK	8224	12165	9406	7701	10139	8781	13363	14430	7069	5187	8428	7694	
EL	8018	12033	9265	7680	10084	8653	13252	14333	7033	5015	8271	7635	
EM	8043	12074	9306	7726	10130	8695	13295	14378	7079	5050	8310	7681	
EN	8033	12038	9271	7674	10080	8657	13254	14334	7028	5024	8279	7632	
EO	8071	12085	9318	7717	10126	8705	13302	14382	7072	5069	8325	7678	
EP	8048	12042	9276	7666	10076	8661	13256	14334	7021	5034	8286	7628	
EQ	7845	11960	9184	7732	10099	8586	13204	14302	7069	4894	8170	7648	
ER	8090	12093	9327	7711	10124	8712	13307	14385	7068	5083	8337	7677	
ES	7891	12002	9227	7755	10129	8627	13243	14339	7096	4940	8214	7678	
ET	8128	12057	9297	7612	10041	8674	13256	14325	6976	5081	8320	7596	
EU	7930	12027	9254	7760	10140	8652	13265	14358	7103	4972	8244	7689	
EV	8147	12072	9313	7619	10050	8688	13269	14337	6984	5098	8336	7605	
EW	8164	12104	9344	7656	10087	8720	13303	14372	7021	5124	8365	7642	
EX	7828	13996	11301	11949	13740	11043	15657	17000	11166	7081	10006	11410	
EY	7842	14019	11325	11985	13773	11070	15682	17026	11202	7110	10030	11445	
EZ	7559	11876	9087	7884	10182	8518	13168	14295	7197	4729	8035	7730	
FA	7964	11990	9221	7662	10058	8611	13213	14298	7011	4965	8224	7608	
FB	3046	9714	7525	10582	11240	7682	11585	13050	9788	5177	6278	9510	
FC	9016	14687	13283	17167	17410	13699	16574	18032	16397	11890	12260	16003	
FD	10931	15588	14725	19152	18971	15283	17380	18768	18430	14201	13903	17901	
FE	10758	15463	14574	18982	18818	15127	17261	18654	18258	14017	13743	17734	
FF	11021	16067	15017	19252	19237	15526	17897	19312	18508	14144	14117	18034	

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-20 8:26 AM/4.0.424

DECIBEL - Main Result

Calculation: 250815 WF1 - Noise Model - 35dBA Ambient - Goose Harbour Lake Wind Farm Phase 1 Turbines Included

...continued from previous page

	WTG											
NSA	67	68	69	70	71	72	73	74	75	76	77	78
FG	8437	13605	12452	16670	16661	12948	15461	16897	15929	11609	11535	15448
FH	4502	9914	7156	7958	9539	6835	11496	12806	7149	2841	5899	7271
FI	3892	9188	6434	7478	8928	6129	10779	12097	6664	2183	5172	6713
FJ	3867	9244	6498	7595	9030	6205	10846	12169	6780	2280	5229	6823
FK	5065	8892	6096	5807	7654	5556	10241	11426	5014	1774	5042	5271
FL	5213	8954	6163	5737	7631	5606	10282	11454	4950	1886	5128	5234
FM	5252	9081	6288	5871	7774	5739	10418	11593	5085	1979	5242	5376
FN	10130	16668	14099	15208	16879	13951	18427	19825	14415	10139	12782	14605
FO	9997	16539	13972	15104	16764	13827	18299	19698	14310	10021	12655	14495

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-27 3:41 PM/4.0.424

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

Noise calculation model:

Finland Low frequency

Wind speed (at 10 m height):

Highest noise value at receptor

Spectral distribution:

From 20.0 Hz to 200.0 Hz

Meteorological coefficient, C0:

Selected option: Fixed value: 0.0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure tone penalty is subtracted from demand

Model: 5.0 dB(A)

Height above ground level, when no value in NSA object:

4.0 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

0.0 dB; Uncertainty margin in NSA has priority

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

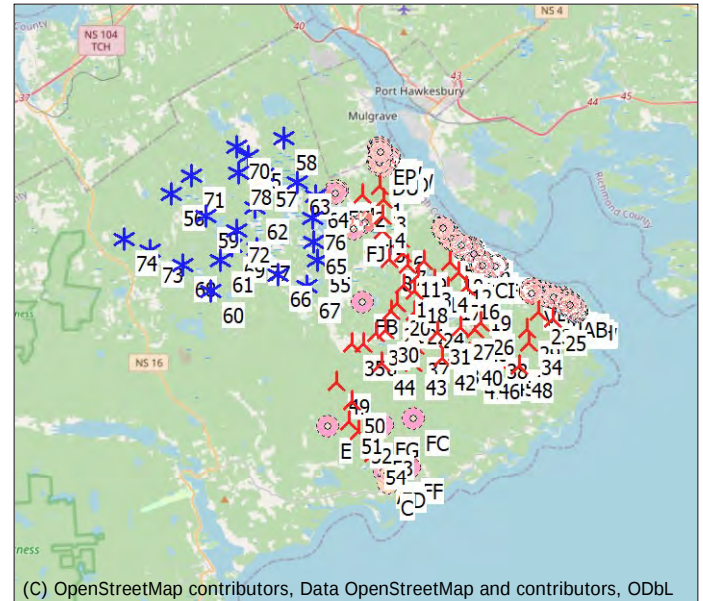
0.0 dB(A)

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



Scale 1:400,000
New WTG
Noise sensitive area

WTGs

	Easting	Northing	Z	Row data/Description	Valid	WTG type		Power, rated	Rotor diameter	Hub height	Noise data		First wind speed [m/s]	LwaRef [dB(A)]	Last wind speed [m/s]	LwaRef [dB(A)]
						Manufact.	Type-generator				Creator	Name				
			[m]					[kW]	[m]	[m]						
1	626,011.47	5,047,867.17	135.4	T1: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
2	625,155.46	5,047,399.23	149.9	T2: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
3	626,271.31	5,047,175.54	150.2	T3: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
4	626,198.76	5,046,320.50	164.5	T4: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
5	626,250.94	5,045,552.45	174.6	T5: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
6	627,192.41	5,045,103.59	179.2	T6: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
7	627,332.04	5,044,342.87	173.6	T7: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
8	626,569.49	5,044,008.44	173.9	T8: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
9	628,450.74	5,043,919.96	163.0	T9: Goldwind GWH182 ... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
10	629,801.48	5,043,902.37	121.8	T10: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
11	627,541.69	5,043,750.30	162.9	T11: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
12	630,304.06	5,043,393.67	121.3	T12: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
13	628,178.79	5,043,190.91	159.3	T13: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
14	629,005.54	5,042,912.23	149.9	T14: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
15	627,436.55	5,042,697.86	150.0	T15: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
16	630,709.88	5,042,672.74	108.5	T16: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
17	629,745.46	5,042,585.95	130.2	T17: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
18	627,992.60	5,042,362.42	144.8	T18: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
19	631,379.53	5,042,023.47	98.4	T19: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
20	627,055.70	5,041,715.41	157.3	T20: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
21	626,728.73	5,041,269.78	154.0	T21: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
22	627,970.15	5,041,280.54	146.2	T22: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
23	631,241.14	5,041,414.80	60.4	T23: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
24	628,826.14	5,041,073.56	136.9	T24: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
25	635,323.57	5,041,020.32	60.2	T25: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
26	631,538.69	5,040,805.32	116.3	T26: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
27	630,473.01	5,040,529.65	128.7	T27: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
28	631,241.14	5,040,422.30	109.8	T28: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
29	633,974.16	5,040,461.18	92.4	T29: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
30	626,522.83	5,040,243.12	134.2	T30: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
31	629,268.98	5,040,212.41	142.9	T31: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
32	625,972.19	5,040,070.88	136.2	T32: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
33	629,777.78	5,039,871.70	131.3	T33: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
34	634,097.04	5,039,794.70	99.4	T34: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
35	624,681.32	5,039,548.30	137.6	T35: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
36	625,320.45	5,039,519.91	148.4	T36: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
37	628,084.13	5,039,486.80	131.9	T37: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
38	632,248.10	5,039,516.49	95.0	T38: Goldwind GWH182... No	No	Goldwind	GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting

Suite 210 - 211 Horseshoe Lake Dr

CA-HALIFAX B3S0B9

902.835.5560 (24/7)

Eric Johnson / ejohnson@strum.com

Calculated:

2025-08-27 3:41 PM/4.0.424

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

	Easting	Northing	Z	Row data/Description	WTG type		Power, rated	Rotor diameter	Hub height	Noise data		First wind speed [m/s]	LwaRef [dB(A)]	Last wind speed [m/s]	LwaRef [dB(A)]
					Valid	Manufact. Type-generator				Creator	Name				
			[m]				[kW]	[m]	[m]						
39	630,293.84	5,039,146.63	121.7	T39: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
40	630,943.33	5,039,113.46	115.8	T40: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
41	633,152.51	5,038,925.43	86.0	T41: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
42	629,539.96	5,038,822.04	113.1	T42: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
43	627,975.66	5,038,596.56	122.5	T43: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
44	626,345.12	5,038,550.19	119.0	T44: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
45	632,703.38	5,038,612.49	83.3	T45: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
46	631,851.46	5,038,453.38	98.4	T46: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
47	631,126.68	5,038,419.30	103.0	T47: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
48	633,626.00	5,038,526.76	75.7	T48: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
49	623,923.03	5,037,457.19	102.1	T49: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
50	624,732.28	5,036,471.18	91.2	T50: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
51	624,677.75	5,035,397.16	103.0	T51: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
52	625,139.73	5,034,859.53	91.9	T52: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
53	626,324.82	5,034,263.73	72.0	T53: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
54	625,948.76	5,033,746.07	56.4	T54: Goldwind GWH182... No		Goldwind GWH182-8,000	8,000	183.4	120.0	USER	Generic - LF	6.0	98.6	12.0	98.2
55	622,768.22	5,043,892.69	162.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
56	615,028.22	5,047,260.69	156.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
57	619,844.22	5,048,347.69	172.2	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
58	620,897.22	5,050,284.69	170.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
59	616,839.22	5,046,105.69	180.8	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
60	617,180.22	5,042,189.70	162.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
61	617,664.22	5,043,801.69	177.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
62	619,430.22	5,046,659.69	182.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
63	621,650.22	5,047,994.69	167.2	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
64	622,605.22	5,047,280.69	165.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
65	622,550.22	5,044,814.69	164.2	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
66	620,700.22	5,043,074.69	164.1	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
67	622,300.22	5,042,545.69	151.4	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
68	615,685.22	5,043,509.70	172.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
69	618,273.22	5,044,586.69	183.2	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
70	618,361.22	5,049,775.69	341.3	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
71	616,057.22	5,048,218.69	161.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
72	618,491.22	5,045,409.69	186.3	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
73	613,929.22	5,044,259.70	161.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
74	612,550.22	5,044,794.70	159.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
75	619,016.22	5,049,288.69	173.4	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
76	622,476.22	5,046,110.69	155.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
77	619,585.22	5,044,466.69	180.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f
78	618,499.22	5,048,443.69	176.0	NORDEX N163/7.X 7000... Yes		NORDEX N163/7.X-7,000	7,000	163.0	118.0	USER	LF-Mode-Nordex N163	6.0	98.6	12.0	98.2 f

f) From other hub height

Calculation Results**Sound level**

Noise sensitive area		Most critical demand				Predicted sound level		Demands fulfilled ?	
No.	Name	Easting	Northing	Z	Immission height	Frequency	Noise	WTG noise	Noise
				[m]	[m]	[Hz]	[dB]	[dB]	
A	Noise sensitive point: User defined (1086)	626,617.83	5,032,705.89	33.8	4.0	50.0	49.0	37.8	Yes
B	Noise sensitive point: User defined (1087)	627,228.13	5,032,747.29	29.6	4.0	50.0	49.0	36.9	Yes
C	Noise sensitive point: User defined (1088)	626,761.53	5,032,137.59	34.4	4.0	50.0	49.0	36.0	Yes
D	Noise sensitive point: User defined (1089)	626,784.33	5,032,163.89	34.4	4.0	50.0	49.0	36.0	Yes
E	Noise sensitive point: User defined (1090)	623,544.83	5,035,105.69	95.5	4.0	50.0	49.0	39.1	Yes
F	Noise sensitive point: User defined (1091)	635,889.53	5,042,081.79	18.3	4.0	50.0	49.0	38.7	Yes
G	Noise sensitive point: User defined (1092)	635,825.83	5,042,118.59	17.0	4.0	50.0	49.0	38.8	Yes
H	Noise sensitive point: User defined (1093)	635,847.13	5,042,149.39	17.3	4.0	50.0	49.0	38.7	Yes
I	Noise sensitive point: User defined (1094)	635,156.13	5,042,155.09	18.7	4.0	50.0	49.0	40.4	Yes
J	Noise sensitive point: User defined (1095)	636,456.04	5,041,689.18	50.2	4.0	50.0	49.0	37.9	Yes
K	Noise sensitive point: User defined (1096)	636,479.83	5,041,689.69	49.0	4.0	50.0	49.0	37.8	Yes
L	Noise sensitive point: User defined (1097)	635,571.03	5,042,163.89	2.7	4.0	50.0	49.0	39.3	Yes
M	Noise sensitive point: User defined (1098)	635,383.83	5,042,170.39	9.0	4.0	50.0	49.0	39.8	Yes
N	Noise sensitive point: User defined (1099)	635,393.83	5,042,172.59	8.5	4.0	50.0	49.0	39.7	Yes
O	Noise sensitive point: User defined (1100)	635,492.53	5,042,185.39	2.5	4.0	50.0	49.0	39.4	Yes
P	Noise sensitive point: User defined (1101)	636,268.23	5,041,718.29	52.3	4.0	50.0	49.0	38.4	Yes
Q	Noise sensitive point: User defined (1102)	634,499.93	5,042,483.89	17.0	4.0	50.0	49.0	39.7	Yes
R	Noise sensitive point: User defined (1103)	634,510.73	5,042,491.09	15.6	4.0	50.0	49.0	39.7	Yes
S	Noise sensitive point: User defined (1104)	635,171.03	5,042,210.39	13.0	4.0	50.0	49.0	40.1	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

Noise sensitive area					Most critical demand		Predicted sound level		Demands fulfilled ?	
No.	Name	Easting	Northing	Z	Immission height	Frequency	Noise	WTG noise	Noise	
				[m]	[m]	[Hz]	[dB]	[dB]		
T	Noise sensitive point: User defined (1105)	634,978.23	5,042,203.14	12.2	4.0	50.0	49.0	40.5	Yes	
U	Noise sensitive point: User defined (1106)	636,063.97	5,041,756.94	48.8	4.0	50.0	49.0	39.1	Yes	
V	Noise sensitive point: User defined (1107)	634,177.41	5,042,324.50	40.0	4.0	50.0	49.0	40.3	Yes	
W	Noise sensitive point: User defined (1108)	635,002.43	5,042,351.29	4.3	4.0	50.0	49.0	39.8	Yes	
X	Noise sensitive point: User defined (1109)	635,023.33	5,042,357.69	4.0	4.0	50.0	49.0	39.7	Yes	
Y	Noise sensitive point: User defined (1110)	634,799.23	5,042,358.49	3.5	4.0	50.0	49.0	40.0	Yes	
Z	Noise sensitive point: User defined (1111)	634,765.23	5,042,362.79	6.6	4.0	50.0	49.0	40.0	Yes	
AA	Noise sensitive point: User defined (1112)	634,923.03	5,042,369.79	0.9	4.0	50.0	49.0	39.8	Yes	
AB	Noise sensitive point: User defined (1113)	636,249.54	5,041,785.35	45.0	4.0	50.0	49.0	38.4	Yes	
AC	Noise sensitive point: User defined (1114)	636,259.83	5,041,802.69	43.2	4.0	50.0	49.0	38.3	Yes	
AD	Noise sensitive point: User defined (1115)	634,932.93	5,042,272.99	6.1	4.0	50.0	49.0	40.2	Yes	
AE	Noise sensitive point: User defined (1116)	634,915.63	5,042,288.59	4.1	4.0	50.0	49.0	40.2	Yes	
AF	Noise sensitive point: User defined (1117)	634,931.53	5,042,290.89	4.8	4.0	50.0	49.0	40.2	Yes	
AG	Noise sensitive point: User defined (1118)	636,599.93	5,041,413.79	58.1	4.0	50.0	49.0	37.7	Yes	
AH	Noise sensitive point: User defined (1119)	636,583.03	5,041,418.69	58.5	4.0	50.0	49.0	37.8	Yes	
AI	Noise sensitive point: User defined (1120)	634,705.93	5,042,377.69	10.4	4.0	50.0	49.0	40.0	Yes	
AJ	Noise sensitive point: User defined (1121)	634,783.83	5,042,382.19	4.4	4.0	50.0	49.0	39.9	Yes	
AK	Noise sensitive point: User defined (1122)	634,721.51	5,042,388.36	9.1	4.0	50.0	49.0	40.0	Yes	
AL	Noise sensitive point: User defined (1123)	634,645.53	5,042,398.59	11.9	4.0	50.0	49.0	40.0	Yes	
AM	Noise sensitive point: User defined (1124)	634,734.43	5,042,402.29	6.4	4.0	50.0	49.0	39.9	Yes	
AN	Noise sensitive point: User defined (1125)	636,460.83	5,041,460.05	60.3	4.0	50.0	49.0	38.1	Yes	
AO	Noise sensitive point: User defined (1126)	636,114.23	5,041,883.99	34.9	4.0	50.0	49.0	38.6	Yes	
AP	Noise sensitive point: User defined (1127)	635,978.73	5,041,889.09	32.4	4.0	50.0	49.0	39.0	Yes	
AQ	Noise sensitive point: User defined (1128)	636,476.94	5,041,490.76	60.0	4.0	50.0	49.0	38.0	Yes	
AR	Noise sensitive point: User defined (1129)	636,501.43	5,041,502.19	59.3	4.0	50.0	49.0	37.9	Yes	
AS	Noise sensitive point: User defined (1130)	635,994.03	5,041,895.79	31.0	4.0	50.0	49.0	39.0	Yes	
AT	Noise sensitive point: User defined (1131)	636,216.93	5,041,901.89	34.6	4.0	50.0	49.0	38.2	Yes	
AU	Noise sensitive point: User defined (1132)	636,206.83	5,041,909.69	33.9	4.0	50.0	49.0	38.2	Yes	
AV	Noise sensitive point: User defined (1133)	635,977.93	5,041,913.99	29.1	4.0	50.0	49.0	39.0	Yes	
AW	Noise sensitive point: User defined (1134)	636,471.23	5,041,513.59	60.2	4.0	50.0	49.0	38.0	Yes	
AX	Noise sensitive point: User defined (1135)	636,588.03	5,041,525.79	54.8	4.0	50.0	49.0	37.6	Yes	
AY	Noise sensitive point: User defined (1136)	636,399.43	5,041,585.13	60.5	4.0	50.0	49.0	38.2	Yes	
AZ	Noise sensitive point: User defined (1137)	636,555.73	5,041,539.19	56.2	4.0	50.0	49.0	37.7	Yes	
BA	Noise sensitive point: User defined (1138)	635,961.53	5,041,924.19	28.2	4.0	50.0	49.0	39.0	Yes	
BB	Noise sensitive point: User defined (1139)	636,436.33	5,041,558.99	60.5	4.0	50.0	49.0	38.1	Yes	
BC	Noise sensitive point: User defined (1140)	636,422.33	5,041,559.69	61.0	4.0	50.0	49.0	38.1	Yes	
BD	Noise sensitive point: User defined (1141)	636,247.64	5,041,969.49	26.1	4.0	50.0	49.0	38.0	Yes	
BE	Noise sensitive point: User defined (1142)	635,680.33	5,041,983.89	20.8	4.0	50.0	49.0	39.7	Yes	
BF	Noise sensitive point: User defined (1143)	635,693.13	5,041,997.09	19.1	4.0	50.0	49.0	39.6	Yes	
BG	Noise sensitive point: User defined (1144)	636,346.70	5,041,650.66	57.8	4.0	50.0	49.0	38.3	Yes	
BH	Noise sensitive point: User defined (1145)	636,499.13	5,041,628.19	52.2	4.0	50.0	49.0	37.8	Yes	
BI	Noise sensitive point: User defined (1146)	631,520.83	5,043,807.39	9.0	4.0	50.0	49.0	41.0	Yes	
BJ	Noise sensitive point: User defined (1147)	630,617.93	5,044,567.79	3.0	4.0	50.0	49.0	41.4	Yes	
BK	Noise sensitive point: User defined (1148)	630,605.43	5,044,574.29	2.3	4.0	50.0	49.0	41.4	Yes	
BL	Noise sensitive point: User defined (1149)	630,805.13	5,044,595.89	4.0	4.0	50.0	49.0	40.9	Yes	
BM	Noise sensitive point: User defined (1150)	630,789.83	5,044,610.79	4.0	4.0	50.0	49.0	40.9	Yes	
BN	Noise sensitive point: User defined (1151)	630,762.73	5,044,612.29	4.0	4.0	50.0	49.0	41.0	Yes	
BO	Noise sensitive point: User defined (1152)	631,056.33	5,044,636.69	3.8	4.0	50.0	49.0	40.3	Yes	
BP	Noise sensitive point: User defined (1153)	631,452.33	5,043,910.79	8.1	4.0	50.0	49.0	41.0	Yes	
BQ	Noise sensitive point: User defined (1154)	630,357.62	5,044,704.71	8.1	4.0	50.0	49.0	41.5	Yes	
BR	Noise sensitive point: User defined (1155)	631,078.73	5,044,349.09	8.2	4.0	50.0	49.0	40.9	Yes	
BS	Noise sensitive point: User defined (1156)	630,433.93	5,044,668.99	4.0	4.0	50.0	49.0	41.5	Yes	
BT	Noise sensitive point: User defined (1157)	631,008.16	5,044,688.76	5.7	4.0	50.0	49.0	40.3	Yes	
BU	Noise sensitive point: User defined (1158)	631,087.93	5,044,389.29	8.1	4.0	50.0	49.0	40.8	Yes	
BV	Noise sensitive point: User defined (1159)	630,397.58	5,044,721.88	6.4	4.0	50.0	49.0	41.4	Yes	
BW	Noise sensitive point: User defined (1160)	630,359.30	5,044,722.79	8.9	4.0	50.0	49.0	41.4	Yes	
BX	Noise sensitive point: User defined (1161)	631,523.53	5,043,987.39	3.0	4.0	50.0	49.0	40.7	Yes	
BY	Noise sensitive point: User defined (1162)	634,305.68	5,042,560.70	19.0	4.0	50.0	49.0	39.5	Yes	
BZ	Noise sensitive point: User defined (1163)	634,228.43	5,042,594.19	18.1	4.0	50.0	49.0	39.4	Yes	
CA	Noise sensitive point: User defined (1164)	634,248.53	5,042,610.19	15.8	4.0	50.0	49.0	39.4	Yes	
CB	Noise sensitive point: User defined (1165)	634,208.53	5,042,610.49	17.4	4.0	50.0	49.0	39.4	Yes	
CC	Noise sensitive point: User defined (1166)	634,219.33	5,042,620.69	16.4	4.0	50.0	49.0	39.4	Yes	
CD	Noise sensitive point: User defined (1167)	630,969.73	5,044,509.09	2.9	4.0	50.0	49.0	40.8	Yes	
CE	Noise sensitive point: User defined (1168)	630,934.63	5,044,513.49	2.6	4.0	50.0	49.0	40.9	Yes	

To be continued on next page...

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

Noise sensitive area					Most critical demand		Predicted sound level	Demands fulfilled ?	
No.	Name	Easting	Northing	Z	Immission height	Frequency	Noise	WTG noise	Noise
				[m]	[m]	[Hz]	[dB]	[dB]	
CF	Noise sensitive point: User defined (1169)	631,616.17	5,043,721.31	4.5	4.0	50.0	49.0	41.0	Yes
CG	Noise sensitive point: User defined (1170)	631,636.13	5,043,741.49	3.3	4.0	50.0	49.0	40.9	Yes
CH	Noise sensitive point: User defined (1171)	631,550.83	5,043,755.89	8.0	4.0	50.0	49.0	41.1	Yes
CI	Noise sensitive point: User defined (1172)	631,559.43	5,043,779.09	7.9	4.0	50.0	49.0	41.0	Yes
CJ	Noise sensitive point: User defined (1173)	631,503.33	5,043,784.99	9.0	4.0	50.0	49.0	41.1	Yes
CK	Noise sensitive point: User defined (1174)	630,418.23	5,044,853.79	5.8	4.0	50.0	49.0	40.9	Yes
CL	Noise sensitive point: User defined (1175)	629,752.63	5,045,201.39	9.0	4.0	50.0	49.0	40.7	Yes
CM	Noise sensitive point: User defined (1176)	629,780.63	5,045,202.89	7.3	4.0	50.0	49.0	40.7	Yes
CN	Noise sensitive point: User defined (1177)	629,573.43	5,045,570.49	9.2	4.0	50.0	49.0	40.0	Yes
CO	Noise sensitive point: User defined (1178)	630,388.63	5,044,866.18	6.5	4.0	50.0	49.0	40.9	Yes
CP	Noise sensitive point: User defined (1179)	629,548.03	5,045,606.59	11.5	4.0	50.0	49.0	40.0	Yes
CQ	Noise sensitive point: User defined (1180)	629,765.43	5,045,268.69	4.0	4.0	50.0	49.0	40.5	Yes
CR	Noise sensitive point: User defined (1181)	629,533.33	5,045,648.39	10.9	4.0	50.0	49.0	39.9	Yes
CS	Noise sensitive point: User defined (1182)	629,735.23	5,045,383.09	3.0	4.0	50.0	49.0	40.3	Yes
CT	Noise sensitive point: User defined (1183)	624,564.03	5,045,697.49	141.0	4.0	50.0	49.0	40.8	Yes
CU	Noise sensitive point: User defined (1184)	629,467.33	5,045,699.09	10.4	4.0	50.0	49.0	39.9	Yes
CV	Noise sensitive point: User defined (1185)	629,530.23	5,045,707.29	3.7	4.0	50.0	49.0	39.8	Yes
CW	Noise sensitive point: User defined (1186)	629,994.68	5,045,016.51	5.6	4.0	50.0	49.0	41.0	Yes
CX	Noise sensitive point: User defined (1187)	629,664.73	5,045,409.79	4.1	4.0	50.0	49.0	40.3	Yes
CY	Noise sensitive point: User defined (1188)	629,440.73	5,045,729.59	9.2	4.0	50.0	49.0	39.9	Yes
CZ	Noise sensitive point: User defined (1189)	629,398.73	5,045,732.89	13.0	4.0	50.0	49.0	39.9	Yes
DA	Noise sensitive point: User defined (1190)	630,626.33	5,044,741.69	3.9	4.0	50.0	49.0	40.9	Yes
DB	Noise sensitive point: User defined (1191)	630,357.02	5,044,748.83	8.6	4.0	50.0	49.0	41.3	Yes
DC	Noise sensitive point: User defined (1192)	630,814.73	5,044,750.99	4.4	4.0	50.0	49.0	40.5	Yes
DD	Noise sensitive point: User defined (1193)	629,373.63	5,045,796.39	8.6	4.0	50.0	49.0	39.8	Yes
DE	Noise sensitive point: User defined (1194)	630,455.73	5,044,770.49	6.3	4.0	50.0	49.0	41.1	Yes
DF	Noise sensitive point: User defined (1195)	630,479.63	5,044,776.99	7.0	4.0	50.0	49.0	41.0	Yes
DG	Noise sensitive point: User defined (1196)	629,859.63	5,045,103.29	4.2	4.0	50.0	49.0	40.9	Yes
DH	Noise sensitive point: User defined (1197)	629,928.53	5,045,104.69	2.2	4.0	50.0	49.0	40.8	Yes
DI	Noise sensitive point: User defined (1198)	630,448.13	5,044,806.39	6.6	4.0	50.0	49.0	41.0	Yes
DJ	Noise sensitive point: User defined (1199)	629,885.53	5,045,125.99	3.0	4.0	50.0	49.0	40.8	Yes
DK	Noise sensitive point: User defined (1200)	630,478.03	5,044,813.59	5.6	4.0	50.0	49.0	40.9	Yes
DL	Noise sensitive point: User defined (1201)	630,422.63	5,044,829.89	6.3	4.0	50.0	49.0	41.0	Yes
DM	Noise sensitive point: User defined (1202)	630,377.63	5,044,830.09	6.0	4.0	50.0	49.0	41.1	Yes
DN	Noise sensitive point: User defined (1203)	629,767.63	5,045,189.39	9.1	4.0	50.0	49.0	40.7	Yes
DO	Noise sensitive point: User defined (1204)	626,426.83	5,049,243.59	5.3	4.0	50.0	49.0	38.1	Yes
DP	Noise sensitive point: User defined (1205)	625,975.93	5,048,970.09	2.6	4.0	50.0	49.0	39.3	Yes
DQ	Noise sensitive point: User defined (1206)	625,960.63	5,048,971.69	3.6	4.0	50.0	49.0	39.3	Yes
DR	Noise sensitive point: User defined (1207)	626,262.03	5,049,015.49	8.1	4.0	50.0	49.0	38.9	Yes
DS	Noise sensitive point: User defined (1208)	626,025.83	5,049,028.09	1.5	4.0	50.0	49.0	39.0	Yes
DT	Noise sensitive point: User defined (1209)	626,019.63	5,049,036.89	1.9	4.0	50.0	49.0	39.0	Yes
DU	Noise sensitive point: User defined (1210)	625,985.93	5,049,074.29	5.1	4.0	50.0	49.0	38.9	Yes
DV	Noise sensitive point: User defined (1211)	626,296.83	5,049,082.09	5.0	4.0	50.0	49.0	38.7	Yes
DW	Noise sensitive point: User defined (1212)	626,467.23	5,049,380.29	3.0	4.0	50.0	49.0	37.7	Yes
DX	Noise sensitive point: User defined (1213)	625,914.53	5,049,094.99	9.6	4.0	50.0	49.0	38.8	Yes
DY	Noise sensitive point: User defined (1214)	626,269.43	5,049,101.59	3.7	4.0	50.0	49.0	38.6	Yes
DZ	Noise sensitive point: User defined (1215)	625,942.33	5,049,107.49	6.3	4.0	50.0	49.0	38.8	Yes
EA	Noise sensitive point: User defined (1216)	626,159.13	5,048,852.49	22.1	4.0	50.0	49.0	39.7	Yes
EB	Noise sensitive point: User defined (1217)	626,236.83	5,048,861.49	20.0	4.0	50.0	49.0	39.6	Yes
EC	Noise sensitive point: User defined (1218)	626,206.83	5,048,864.39	20.5	4.0	50.0	49.0	39.6	Yes
ED	Noise sensitive point: User defined (1219)	626,049.23	5,048,897.49	9.7	4.0	50.0	49.0	39.5	Yes
EE	Noise sensitive point: User defined (1220)	626,066.03	5,048,911.79	8.3	4.0	50.0	49.0	39.5	Yes
EF	Noise sensitive point: User defined (1221)	626,215.33	5,048,947.59	9.0	4.0	50.0	49.0	39.2	Yes
EG	Noise sensitive point: User defined (1222)	625,985.23	5,048,950.29	2.7	4.0	50.0	49.0	39.3	Yes
EH	Noise sensitive point: User defined (1223)	626,049.63	5,049,836.59	9.5	4.0	50.0	49.0	36.9	Yes
EI	Noise sensitive point: User defined (1224)	625,998.53	5,049,842.59	13.3	4.0	50.0	49.0	36.9	Yes
EJ	Noise sensitive point: User defined (1225)	625,917.73	5,049,844.69	20.0	4.0	50.0	49.0	36.9	Yes
EK	Noise sensitive point: User defined (1226)	626,062.23	5,049,858.79	6.8	4.0	50.0	49.0	36.9	Yes
EL	Noise sensitive point: User defined (1227)	626,040.33	5,049,638.39	14.9	4.0	50.0	49.0	37.3	Yes
EM	Noise sensitive point: User defined (1228)	626,086.33	5,049,642.19	10.1	4.0	50.0	49.0	37.3	Yes
EN	Noise sensitive point: User defined (1229)	626,034.03	5,049,658.29	15.2	4.0	50.0	49.0	37.3	Yes
EO	Noise sensitive point: User defined (1230)	626,077.63	5,049,678.09	10.0	4.0	50.0	49.0	37.2	Yes
EP	Noise sensitive point: User defined (1231)	626,026.63	5,049,679.09	14.8	4.0	50.0	49.0	37.2	Yes
EQ	Noise sensitive point: User defined (1232)	626,084.53	5,049,417.19	4.8	4.0	50.0	49.0	37.8	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

Noise sensitive area					Most critical demand					Predicted sound level	Demands fulfilled ?	
No.	Name	Easting	Northing	Z	Immission height	Frequency	Noise	WTG noise	Noise			
				[m]	[m]	[Hz]	[dB]	[dB]				
ER	Noise sensitive point: User defined (1233)	626,072.13	5,049,702.99	9.7	4.0	50.0	49.0	37.2			Yes	
ES	Noise sensitive point: User defined (1234)	626,109.83	5,049,456.69	2.6	4.0	50.0	49.0	37.7			Yes	
ET	Noise sensitive point: User defined (1235)	625,973.63	5,049,796.49	16.8	4.0	50.0	49.0	37.0			Yes	
EU	Noise sensitive point: User defined (1236)	626,116.03	5,049,497.79	2.7	4.0	50.0	49.0	37.6			Yes	
EV	Noise sensitive point: User defined (1237)	625,980.13	5,049,814.29	15.7	4.0	50.0	49.0	37.0			Yes	
EW	Noise sensitive point: User defined (1238)	626,017.03	5,049,814.99	12.4	4.0	50.0	49.0	37.0			Yes	
EX	Noise sensitive point: User defined (1239)	629,533.79	5,045,539.08	15.6	4.0	50.0	49.0	40.2			Yes	
EY	Noise sensitive point: User defined (1240)	629,561.04	5,045,508.90	13.6	4.0	50.0	49.0	40.2			Yes	
EZ	Noise sensitive point: User defined (1241)	626,208.08	5,049,016.06	3.4	4.0	50.0	49.0	39.0			Yes	
FA	Noise sensitive point: User defined (1242)	626,021.23	5,049,586.82	16.0	4.0	50.0	49.0	37.4			Yes	
FB	Noise sensitive point: User defined (1243)	625,235.30	5,041,730.71	146.1	4.0	50.0	49.0	41.4			Yes	
FC	Noise sensitive point: User defined (1244)	628,074.66	5,035,621.55	51.9	4.0	50.0	49.0	38.2			Yes	
FD	Noise sensitive point: User defined (1245)	626,803.90	5,032,585.09	33.4	4.0	50.0	49.0	37.2			Yes	
FE	Noise sensitive point: User defined (1246)	626,823.36	5,032,784.31	44.2	4.0	50.0	49.0	37.8			Yes	
FF	Noise sensitive point: User defined (1247)	627,868.70	5,033,035.10	36.8	4.0	50.0	49.0	36.4			Yes	
FG	Noise sensitive point: User defined (1248)	626,463.80	5,035,207.60	68.1	4.0	50.0	49.0	40.7			Yes	
FH	Noise sensitive point: User defined (1249)	625,308.51	5,045,894.76	162.0	4.0	50.0	49.0	42.3			Yes	
FI	Noise sensitive point: User defined (1250)	624,614.70	5,045,674.30	141.0	4.0	50.0	49.0	40.8			Yes	
FJ	Noise sensitive point: User defined (1251)	624,693.97	5,045,583.30	142.4	4.0	50.0	49.0	40.9			Yes	
FK	Noise sensitive point: User defined (1252)	623,669.87	5,047,422.49	144.0	4.0	50.0	49.0	40.7			Yes	
FL	Noise sensitive point: User defined (1253)	623,661.18	5,047,578.14	144.4	4.0	50.0	49.0	40.5			Yes	
FM	Noise sensitive point: User defined (1254)	623,804.74	5,047,577.31	153.0	4.0	50.0	49.0	40.4			Yes	
FN	Noise sensitive point: User defined (1255)	632,350.92	5,043,812.23	16.6	4.0	50.0	49.0	39.4			Yes	
FO	Noise sensitive point: User defined (1256)	632,221.59	5,043,774.78	17.6	4.0	50.0	49.0	39.7			Yes	

*)Spectral distribution, please see details in report "Detailed results"

Distances (m)

WTG		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NSA		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	15173	14766	14474	13621	12852	12411	11659	11303	11363	11640	11083	11306	10601	10482	10025	10774	10363	9754	10464	9020	8565	8681	
B	15169	14798	14460	13612	12842	12356	11596	11280	11239	11448	11007	11082	10487	10319	9953	10518	10156	9645	10163	8970	8537	8565	
C	15747	15346	15046	14194	13425	12973	12219	11872	11903	12151	11639	11800	11144	11006	10582	11251	10866	10299	10911	9582	9132	9222	
D	15722	15322	15020	14169	13399	12946	12191	11846	11874	12120	11611	11768	11115	10975	10554	11218	10835	10270	10878	9555	9106	9193	
E	12998	12399	12374	11525	10792	10642	9983	9403	10088	10795	9524	10695	9319	9527	8532	10421	9716	8511	10452	7484	6938	7597	
F	11448	11979	10884	10577	10244	9207	8851	9517	7663	6354	8513	5737	7790	6934	8475	5213	6165	7902	4510	8841	9197	7960	
G	11374	11906	10810	10504	10172	9135	8780	9447	7592	6283	8443	5667	7722	6866	8409	5146	6098	7837	4447	8779	9137	7900	
H	11377	11911	10815	10511	10182	9145	8793	9462	7605	6295	8458	5681	7739	6884	8428	5164	6117	7857	4469	8802	9161	7925	
I	10782	11292	10205	9879	9531	8492	8124	8784	6934	5633	7780	5008	7054	6197	7739	4476	5428	7167	3779	8112	8474	7239	
J	12135	12661	11568	11254	10912	9873	9502	10155	8310	7013	9150	6384	8412	7550	9076	5830	6770	8490	5088	9400	9736	8496	
K	12155	12682	11589	11276	10934	9895	9525	10178	8333	7035	9173	6407	8436	7574	9099	5853	6794	8514	5111	9424	9760	8520	
L	11132	11657	10564	10253	9917	8879	8522	9189	7334	6026	8185	5409	7463	6608	8152	4888	5841	7581	4194	8527	8887	7652	
M	10968	11487	10397	10079	9739	8701	8340	9004	7150	5845	8000	5225	7277	6421	7965	4701	5654	7394	4007	8341	8702	7467	
N	10975	11495	10404	10087	9748	8709	8349	9013	7160	5854	8009	5234	7287	6431	7975	4711	5663	7404	4017	8351	8712	7477	
O	11053	11578	10485	10172	9836	8798	8441	9107	7252	5944	8103	5327	7383	6528	8072	4807	5761	7502	4116	8450	8812	7577	
P	11959	12481	11389	11071	10726	9687	9314	9965	8122	6826	8960	6195	8222	7360	8886	5640	6580	8301	4898	9213	9550	8310	
Q	10052	10558	9472	9145	8801	7763	7405	8076	6217	4908	7073	4293	6361	5511	7067	3795	4756	6508	3154	7484	7865	6640	
R	10057	10565	9478	9152	8809	7771	7414	8085	6226	4916	7082	4302	6370	5521	7077	3805	4766	6519	3166	7495	7877	6652	
S	10766	11280	10191	9869	9526	8487	8124	8787	6934	5630	7783	5009	7061	6205	7750	4485	5439	7180	3796	8130	8495	7261	
T	10606	11112	10027	9697	9348	8309	7940	8600	6749	5448	7596	4823	6871	6015	7558	4294	5247	6987	3603	7938	8302	7069	
U	11764	12281	11192	10870	10521	9482	9107	9758	7915	6620	8752	5988	8015	7152	8679	5432	6373	8094	4692	9008	9348	8108	
V	9869	10351	9276	8923	8559	7518	7137	7792	5945	4652	6787	4018	6061	5205	6751	3485	4440	6185	2814	7148	7523	6294	
W	10548	11065	9975	9657	9319	8281	7925	8594	6737	5427	7591	4813	6875	6023	7574	4305	5262	7010	3638	7972	8344	7113	
X	10563	11081	9990	9674	9336	8298	7943	8613	6756	5446	7610	4832	6895	6043	7594	4325	5283	7031	3659	7993	8366	7135	
Y	10372	10882	9794	9469	9125	8087	7726	8394	6538	5231	7390	4613	6673	5820	7370	4101	5059	6807	3436	7770	8144	6914	
Z	10341	10850	9763	9437	9092	8054	7692	8359	6504	5197	7356	4579	6638	5786	7336	4067	5025	6773	3403	7737	8110	6881	
AA	10471	10986	9897	9577	9238	8200	7843	8513	6655	5346	7509	4731	6794	5942	7494	4224	5182	6930	3560	7895	8268	7038	
AB	11908	12434	11341	11027	10685	9646	9277	9932	8086	6787	8927	6159	8192	7331	8860	5610	6553	8277	4876	9194	9535	8295	
AC	11908	12435	11342	11029	10688	9650	9282	9938	8091	6791	8933	6165	8199	7339	8869	5618	6561	8286	4885	9205	9546	8306	
AD	10530	11040	9953	9626	9281	8242	7878	8542	6688	5384	7537	4763	6816	5962	7508	4242	5197	6941	3562	7897	8265	7033	
AE	10507	11017	9930	9604	9259	8220	7857	8521	6668	5363	7517	4742	6797	5943	7490	4223	5179	6923	3546	7881	8250	7018	
AF	10520	11030	9943	9618	9273	8234	7872	8537	6682	5377	7533	4757	6812	5958	7506	4239	5194	6939	3562	7897	8266	7034	
AG	12400	12915	11827	11500	11146	10105	9720	10361	8526	7240	9355	6600	8607	7741	9253	6023	6954	8659	5256	9549	9872	8631	
AH	12383	12898	11810	11483	11128	10088	9702	10343	8508	7222	9337	6582	8589	7723	9235	6006	6936	8642	5239	9532	9855	8614	
AI	10282	10790	9704	9376	9031	7993	7631	8298	6443	5136	7295	4518	6578	5725	7276	4007	4965	6713	3345	7679	8054	6825	

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-27 3:41 PM/4.0.424

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

WTG																						
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
AJ	10346	10857	9769	9445	9103	8064	7705	8374	6517	5209	7370	4593	6654	5803	7354	4084	5042	6791	3423	7757	8132	6902
AK	10290	10799	9712	9386	9042	8004	7644	8311	6455	5148	7308	4530	6592	5740	7292	4022	4980	6729	3362	7695	8071	6842
AL	10220	10727	9641	9313	8967	7929	7568	8235	6379	5072	7231	4454	6515	5663	7215	3945	4904	6653	3287	7621	7997	6768
AM	10293	10804	9716	9392	9049	8011	7653	8321	6464	5156	7318	4540	6603	5752	7304	4034	4992	6742	3376	7709	8085	6857
AN	12257	12770	11683	11355	11000	9959	9573	10214	8379	7093	9208	6453	8461	7595	9109	5877	6809	8516	5112	9409	9734	8493
AO	11742	12268	11175	10863	10523	9485	9120	9778	7929	6628	8773	6003	8042	7183	8716	5462	6407	8136	4737	9060	9406	8166
AP	11623	12145	11054	10737	10395	9356	8988	9645	7797	6497	8640	5871	7908	7048	8580	5327	6272	8000	4601	8925	9271	8032
AQ	12255	12771	11682	11356	11003	9963	9579	10222	8386	7098	9217	6460	8471	7605	9121	5887	6820	8529	5125	9424	9751	8509
AR	12270	12787	11698	11374	11022	9981	9599	10243	8406	7117	9237	6480	8492	7627	9143	5909	6842	8552	5148	9448	9775	8534
AS	11632	12156	11064	10748	10407	9368	9001	9658	7810	6510	8653	5884	7922	7062	8595	5341	6287	8015	4616	8940	9286	8047
AT	11821	12352	11257	10949	10614	9576	9214	9875	8024	6720	8870	6098	8141	7282	8816	5561	6508	8237	4839	9163	9509	8270
AU	11808	12340	11245	10937	10601	9564	9202	9863	8012	6708	8858	6086	8130	7271	8806	5550	6497	8227	4829	9153	9500	8261
AV	11609	12133	11041	10726	10385	9347	8981	9639	7790	6489	8634	5864	7903	7043	8577	5322	6269	7998	4600	8924	9272	8033
AW	12238	12755	11666	11342	10989	9949	9567	10211	8374	7085	9205	6447	8460	7596	9112	5877	6811	8521	5117	9418	9746	8504
AX	12332	12853	11762	11442	11094	10054	9675	10322	8482	7191	9316	6556	8573	7708	9226	5989	6924	8636	5232	9534	9863	8621
AY	12140	12658	11569	11246	10896	9856	9477	10124	8285	6993	9119	6358	8376	7512	9032	5793	6729	8443	5039	9345	9676	8435
AZ	12297	12818	11728	11407	11059	10019	9640	10287	8447	7156	9281	6521	8538	7674	9192	5955	6890	8603	5199	9502	9831	8589
BA	11590	12114	11022	10707	10366	9328	8962	9621	7771	6470	8616	5845	7885	7026	8560	5305	6251	7981	4583	8908	9256	8017
BB	12185	12703	11614	11291	10940	9900	9520	10166	8327	7037	9161	6401	8417	7553	9072	5834	6769	8482	5078	9382	9712	8471
BC	12173	12690	11601	11278	10927	9887	9507	10153	8314	7023	9147	6387	8403	7539	9058	5820	6755	8468	5064	9368	9698	8457
BD	11814	12350	11253	10950	10619	9582	9226	9891	8037	6730	8886	6112	8161	7303	8841	5582	6531	8264	4868	9195	9545	8306
BE	11318	11836	10746	10426	10082	9043	8675	9333	7484	6184	8328	5558	7598	6739	8275	5018	5965	7697	4301	8629	8980	7742
BF	11322	11842	10751	10432	10089	9051	8684	9343	7493	6192	8338	5567	7609	6750	8286	5029	5977	7709	4314	8642	8994	7756
BG	12061	12581	11491	11171	10824	9784	9408	10057	8216	6922	9052	6289	8312	7449	8971	5729	6667	8384	4981	9291	9626	8385
BH	12203	12727	11635	11319	10974	9934	9561	10211	8368	7073	9205	6442	8466	7603	9125	5883	6821	8538	5135	9444	9777	8536
BI	6844	7309	6237	5886	5551	4518	4223	4955	3072	1722	3980	1285	3398	2670	4232	1395	2155	3813	1790	4931	5423	4358
BJ	5666	6153	5069	4754	4477	3467	3294	4087	2262	1053	3183	1215	2801	2311	3690	1897	2165	3429	2656	4564	5099	4221
BK	5652	6139	5055	4740	4463	3454	3282	4075	2252	1048	3173	1218	2793	2307	3683	1904	2166	3423	2666	4558	5094	4218
BL	5803	6307	5216	4919	4654	3648	3482	4276	2449	1220	3371	1302	2979	2464	3866	1926	2272	3591	2636	4728	5261	4362
BM	5782	6287	5196	4899	4636	3631	3468	4263	2439	1216	3360	1310	2972	2463	3861	1940	2278	3589	2654	4725	5259	4364
BN	5759	6262	5171	4873	4609	3604	3441	4236	2413	1195	3334	1302	2949	2445	3838	1940	2267	3569	2661	4705	5239	4347
BO	5991	6516	5417	5141	4892	3892	3736	4531	2702	1454	3625	1453	3220	2679	4106	1994	2434	3816	2633	4954	5483	4559
BP	6727	7199	6124	5780	5454	4424	4143	4884	3002	1651	3914	1259	3352	2643	4195	1444	2161	3790	1889	4914	5412	4364
BQ	5375	5859	4775	4462	4193	3190	3047	3852	2062	976	2973	1312	2653	2245	3544	2062	2205	3329	2869	4454	4997	4174
BR	6169	6662	5577	5263	4975	3959	3747	4522	2663	1353	3587	1230	3123	2522	3999	1716	2210	3670	2345	4808	5330	4368
BS	5458	5943	4859	4546	4275	3271	3119	3920	2120	994	3035	1282	2696	2264	3587	2015	2194	3359	2809	4487	5028	4189
BT	5922	6450	5350	5079	4835	3838	3692	4491	2670	1440	3591	1474	3201	2677	4089	2038	2453	3809	2691	4946	5478	4566
BU	6154	6652	5564	5257	4975	3960	3756	4534	2679	1376	3603	1267	3146	2553	4024	1758	2248	3700	2384	4838	5360	4403
BV	5397	5886	4801	4493	4229	3228	3089	3894	2106	1013	3017	1332	2696	2283	3587	2073	2233	3369	2872	4495	5038	4211
BW	5366	5852	4767	4457	4191	3190	3051	3857	2071	992	2981	1330	2665	2261	3556	2080	2223	3343	2886	4467	5010	4190
BX	6741	7224	6144	5813	5500	4473	4207	4954	3074	1724	3989	1356	3438	2738	4286	1546	2264	3887	1969	5012	5511	4467
BY	9846	10351	9265	8936	8592	7554	7198	7870	6011	4700	6868	4087	6159	5312	6870	3598	4560	6316	2975	7299	7686	6464
BZ	9763	10267	9182	8852	8508	7470	7115	7788	5928	4616	6786	4005	6079	5233	6793	3519	4483	6240	2905	7226	7616	6395
CA	9772	10277	9191	8864	8522	7484	7130	7805	5944	4631	6803	4022	6097	5252	6813	3539	4503	6261	2928	7248	7638	6418
CB	9738	10242	9156	8827	8484	7446	7091	7766	5905	4592	6764	3982	6058	5212	6773	3499	4463	6221	2889	7209	7599	6379
CC	9741	10246	9161	8833	8491	7453	7099	7775	5913	4600	6773	3991	6067	5222	6783	3510	4474	6232	2902	7221	7611	6391
CD	5988	6493	5402	5103	4833	3824	3641	4429	2587	1316	3511	1299	3087	2531	3970	1855	2280	3670	2519	4809	5337	4407
CE	5957	6460	5370	5069	4798	3788	3607	4394	2554	1287	3478	1285	3057	2507	3941	1854	2265	3645	2529	4783	5311	4386
CF	6971	7434	6364	6009	5669	4635	4329	5055	3172	1824	4075	13										

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

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NSA	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
EH	11999	9192	12796	10569	10305	10751	12276	9605	10148	9766	10639	12869	10379	10342	10548	12038	11502	11787	13019	11554	11404	11290
EI	12039	9214	12837	10600	10332	10781	12313	9614	10170	9772	10663	12905	10378	10345	10564	12070	11526	11814	13052	11576	11419	11298
EJ	12099	9241	12897	10645	10369	10822	12368	9621	10199	9774	10694	12958	10370	10342	10582	12114	11558	11850	13099	11603	11435	11303
EK	12005	9210	12802	10581	10319	10764	12285	9627	10165	9788	10656	12878	10403	10365	10567	12051	11518	11802	13031	11572	11424	11312
EL	11867	9007	12667	10405	10130	10582	12131	9408	9964	9568	10457	12720	10181	10144	10355	11874	11321	11611	12859	11368	11210	11092
EM	11837	8996	12636	10384	10113	10563	12104	9409	9952	9572	10445	12694	10191	10151	10350	11853	11308	11595	12837	11358	11206	11095
EN	11885	9027	12685	10425	10151	10603	12150	9428	9984	9588	10478	12740	10200	10163	10376	11894	11342	11632	12879	11389	11231	11112
EO	11868	9033	12667	10419	10150	10599	12137	9445	9989	9608	10481	12728	10226	10186	10387	11888	11344	11631	12871	11395	11243	11131
EP	11905	9049	12705	10446	10173	10624	12171	9449	10007	9608	10500	12761	10220	10184	10398	11916	11364	11654	12900	11411	11253	11133
EQ	11683	8783	12485	10194	9912	10368	11936	9185	9740	9347	10235	12522	9968	9927	10130	11662	11100	11392	12650	11144	10985	10870
ER	11889	9058	12688	10443	10174	10623	12159	9471	10015	9633	10506	12750	10249	10211	10412	11912	11369	11656	12895	11420	11268	11156
ES	11691	8812	12493	10214	9936	10390	11949	9223	9769	9387	10263	12536	10011	9968	10163	11683	11127	11417	12669	11174	11019	10909
ET	12025	9177	12824	10574	10301	10753	12295	9569	10135	9726	10629	12885	10329	10297	10523	12044	11493	11782	13028	11539	11377	11252
EU	11715	8849	12516	10245	9970	10423	11975	9264	9806	9428	10299	12564	10052	10010	10203	11714	11162	11452	12700	11211	11059	10950
EV	12033	9192	12831	10586	10315	10765	12304	9587	10150	9743	10643	12895	10348	10315	10540	12055	11507	11796	13039	11554	11394	11270
EW	12007	9182	12805	10567	10299	10748	12280	9585	10138	9744	10631	12872	10353	10319	10533	12037	11494	11781	13019	11544	11388	11270
EX	6530	4521	7344	5141	5097	5394	6746	6092	5333	6526	5673	7336	7709	7347	6223	6606	6437	6578	7539	6717	7115	7682
EY	6490	4496	7304	5102	5062	5357	6705	6079	5305	6516	5641	7296	7703	7338	6201	6567	6404	6543	7499	6687	7092	7666
EZ	11320	8363	12125	9789	9498	9959	11554	8779	9321	8948	9816	12135	9590	9538	9712	11257	10682	10977	12249	10725	10568	10467
FA	11845	8963	12646	10371	10092	10547	12105	9357	9921	9516	10416	12693	10128	10091	10309	11840	11281	11572	12827	11325	11163	11041
FB	9366	3650	10113	6371	5374	6147	8831	1967	4310	1816	4908	9071	2252	2212	3626	7354	5680	6279	8400	5195	4163	3369
FC	8723	5504	9038	6235	5463	5751	7631	4875	4744	4921	4579	7327	5190	4773	3865	5709	4165	4519	6058	3520	2977	3401
FD	11776	8726	11989	9486	8751	9006	10651	7663	8016	7532	7870	10255	7280	7092	7019	8814	7432	7730	8972	6811	6125	5983
FE	11615	8528	11836	9304	8562	8824	10491	7465	7820	7336	7679	10102	7095	6901	6820	8646	7247	7552	8819	6621	5925	5786
FF	10746	8095	10924	8593	7934	8121	9614	7333	7313	7287	7098	9192	7251	6968	6455	7822	6575	6812	7913	6023	5562	5722
FG	10231	6324	10596	7556	6663	7072	9165	5036	5737	4888	5722	8905	4692	4461	4576	7213	5494	5943	7653	4746	3711	3345
FH	10312	5968	11138	8045	7447	8071	10228	5781	6926	5862	7500	10698	6377	6375	6983	9426	8390	8817	10493	8242	7770	7417
FI	10852	6237	11676	8465	7797	8455	10713	5757	7176	5766	7767	11157	6126	6195	7094	9808	8652	9116	10883	8439	7835	7331
FJ	10744	6117	11568	8347	7677	8337	10600	5645	7055	5659	7646	11042	6035	6096	6976	9689	8532	8995	10764	8319	7719	7224
FK	12469	8179	13296	10281	9685	10311	12435	7725	9129	7704	9712	12919	7939	8073	9081	11666	10600	11043	12733	10413	9820	9267
FL	12552	8306	13380	10389	9802	10424	12530	7873	9258	7855	9839	13019	8094	8227	9221	11778	10728	11166	12843	10547	9964	9418
FM	12427	8217	13254	10280	9702	10320	12412	7822	9171	7813	9750	12904	8077	8199	9153	11673	10639	11072	12737	10466	9902	9378
FN	3285	4464	4078	3115	3782	3567	3723	6834	4739	7395	4706	4381	8775	8237	6076	4297	5099	4905	4952	5727	6808	7985
FO	3348	4339	4148	3047	3686	3493	3749	6704	4627	7265	4605	4400	8644	8107	5959	4258	5014	4833	4938	5632	6696	7863

WTG																						
NSA	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
A	8481	7773	7278	9110	5462	4211	3318	2612	1585	1237	11831	18605	17045	18486	16588	13380	14258	15696	16076	15117	12774	11939
B	8024	7344	6883	8622	5754	4483	3678	2970	1765	1623	12005	18960	17260	18645	16923	13788	14617	15949	16236	15251	12942	12218
C	8788	8112	7649	9378	6030	4785	3869	3168	2171	1802	12415	19141	17624	19071	17134	13887	14792	16268	16661	15703	13358	12504
D	8753	8077	7615	9343	6017	4771	3859	3158	2150	1789	12397	19134	17609	19053	17125	13884	14786	16255	16643	15684	13341	12492
E	9807	8956	8274	10646	2382	1810	1170	1614	2905	2762	8821	14842	13749	15408	12883	9523	10498	12265	13028	12211	9760	8461
F	4710	5429	6008	4214	12829	12489	13053	12951	12353	12973	13246	21495	17225	17090	19471	18710	18306	17084	15418	14265	13616	15222
G	4695	5406	5981	4212	12783	12448	13018	12918	12328	12948	13178	21424	17153	17016	19401	18646	18239	17013	15345	14193	13547	15156
H	4732	5443	6016	4249	12814	12481	13052	12953	12364	12984	13195	21437	17161	17020	19415	18667	18258	17025	15353	14201	13561	15175
I	4309	4962	5495	3938	12176	11873	12469	12392	11843	12469	12509	20765	16517	16414	18738	17976	17569	16358	14714	13557	12883	14485
J	4853	5628	6253	4244	13228	12833	13354	13218	12561	13172	13864	22140	17897	17775	20108	19282	18910	17737	16093	14937	14253	15817
K	4871	5648	6273	4260	13251	12854	13375	13238	12580	13191	13887	22163	17919	17796	20131	19306	18934	17759	16114	14959	14276	15840
L	4565	5254	5812	4125	12563	12243	12824	12734	12162	12785	12919	21166	16899	16771	19142	18391	17982	16755	15093	13939	13288	14899
M	4455	5128	5674	4045	12392	12080	12669	12585	12024	12649	12733	20982	16722	16604	18958	18204	17795	16573	14918	13763	13103	14711
N	4462	5136	5683	4052	12402	12090	12678	12595	12033	12658	12742	20992	16731	16612	18967	18214	17804	16582	14926	13771	13113	14721
O	4533	5214	5766	4107	12498	12183	12769	12683	12116	12740	12838	21084	16818	16692	19061	18312	17901	16674	15012	13858	13207	14819
P	4728	5492	6109	4143	13060	12673	13202	13072	12427	13040	13674	21951	17712	17597	19918	19094	18720	17548	15908	14752	14063	15627
Q	4268	4823	5282	4052	11711	11470	12112	12072	11593	12226	11816	20049	15785	15681	18028	17322	16887	15638	13982	12826	12175	13812
R	4279	4835	5294	4062	11723	11483	12125	12085	11606	12239	11826	20058	15793	15687	18037	17333	16897	15646	13989	12833	12184	13823
S	4363	5013	5543	3995	12211	11912	12511	12436	11891	12518	12516	20766	16510	16399	18741	17991	17579	16358	14706	13550	12887	14497
T	4251	4882	5399	3917	12031	11740	12346	12277	11744	12371	12326	20581	16334	16235	18554	17798	17388	16174	14532	13374	12699	14305
U	4602	5353	5960	4047	12880	12504	13042	12919	12288	12903	13466	21744	17508	17400	19710	18889	18513	17341	15706	14548	13855	15420
V	3994	4516	4956	3838	11351	11112	11757	11722	11253	11887	11516	19775	15547	15483	17746	16998	16579	15371	13751	12589	11891	13498
W	4389	5012	5521	4065	12112	11834	12448	12385	11862	12491	12331	20569	16301	16183	18547	17823	17399	16157	14496	13341	12694	14320
X	4406	5030	5540	4078	12134	11856	12469	12406	11882	12510	12351	20587	16318	16198	18566	17844	17419	16176	14513	13358	12713	14341
Y	4292	4893	5386	4007	11930	11662	12284	12229	11719	12349	12128	20370	16110	16003	18347	17620	17196	15960	14306	13150	12493	14117
Z	4280	4876	5366	4002	11900	11635	12259	12204	11698	12328	12094	20336	16077	15971	18313	17586	17161	15926	14273	13117	12459	14083
AA	4364	4977	5479	4056	12047	11775	12393	12334	11817	12446	12250	20487	16221	16105	18466	17744	17318	16076	14416	13261	12612	14240
AB	4758	5518	6130	4183	13064	12684	13218	13092	12453	13067	13645	21916	17669	17548	19885	19074	18694	17511	15865	14709	14030	15603
AC	4778	5536	6148	4203	13080	12701	13235	13110	12472	13085	13653	21922	17672	17549	19892	19084	18703	17516	15868	14712	14037	15612
AD	4286	4908	5416	3968	12017	11735	12347	12283	11758	12386	12272	20520	16266	16161	18495	17753	17336	16111	14463	13306	12641	14255
AE	4290	4909	5415	3977	12007	11728	12341	12278	11756	12385	12253	20500	16244	16139	18475	17736	17318	16091	14441	13284	12621	14237
AF	4301	4921	5428	3984	12023	11743	12356	12292	11769	12398	12268	20514	16258	16151	18490	17752	17333	16105	14454	13298	12636	14253

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

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WTG																							
NSA	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	
AG	4799	5596	6239	4145	13280	12856	13354	13202	12518	13124	14052	22350	18134	18035	20310	19435	19086	17953	16334	15175	14455	15986	
AH	4788	5584	6226	4136	13265	12842	13341	13190	12507	13113	14035	22332	18116	18018	20293	19418	19068	17936	16317	15157	14438	15969	
AI	4265	4853	5337	3999	11853	11591	12219	12167	11665	12296	12033	20275	16016	15912	18252	17527	17101	15865	14213	13056	12398	14023	
AJ	4306	4902	5393	4026	11925	11661	12285	12231	11725	12355	12110	20349	16087	15978	18327	17605	17178	15938	14283	13127	12473	14101	
AK	4281	4870	5355	4014	11871	11610	12237	12186	11684	12315	12048	20287	16026	15921	18265	17542	17116	15877	14223	13067	12411	14038	
AL	4255	4834	5312	4004	11806	11550	12181	12133	11637	12268	11971	20211	15952	15850	18188	17467	17039	15801	14149	12992	12334	13962	
AM	4300	4889	5374	4031	11889	11628	12256	12205	11703	12334	12059	20296	16033	15925	18274	17556	17127	15885	14229	13074	12421	14050	
AN	4715	5503	6140	4079	13161	12746	13251	13105	12431	13039	13907	22204	17988	17891	20164	19294	18942	17807	16188	15029	14309	15843	
AO	4726	5472	6073	4179	12970	12603	13148	13030	12406	13022	13496	21761	17507	17382	19732	18936	18549	17354	15702	14547	13877	15460	
AP	4633	5370	5965	4104	12845	12483	13033	12919	12302	12919	13362	21628	17379	17261	19598	18801	18414	17222	15575	14419	13744	15324	
AQ	4746	5534	6169	4113	13186	12772	13280	13134	12462	13070	13918	22211	17991	17890	20173	19309	18954	17813	16191	15032	14318	15856	
AR	4772	5560	6196	4138	13213	12799	13307	13161	12488	13096	13940	22232	18009	17906	20194	19333	18977	17833	16208	15050	14339	15879	
AS	4648	5386	5981	4118	12861	12500	13050	12935	12318	12935	13376	21641	17391	17271	19612	18816	18429	17235	15587	14431	13757	15339	
AT	4813	5563	6168	4255	13073	12704	13246	13126	12498	13113	13595	21856	17596	17463	19828	19039	18650	17448	15790	14636	13974	15561	
AU	4811	5560	6164	4255	13066	12698	13241	13122	12495	13110	13584	21844	17584	17451	19817	19029	18639	17436	15777	14624	13962	15550	
AV	4650	5385	5979	4124	12852	12494	13045	12932	12317	12934	13357	21621	17369	17248	19592	18800	18411	17215	15565	14409	13737	15322	
AW	4755	5541	6176	4125	13188	12776	13285	13141	12470	13079	13908	22200	17977	17874	20162	19303	18946	17801	16176	15018	14307	15848	
AX	4856	5646	6283	4215	13302	12888	13395	13248	12573	13180	14021	22310	18080	17970	20273	19419	19060	17909	16278	15121	14418	15963	
AY	4743	5522	6150	4129	13142	12739	13255	13115	12454	13064	13825	22112	17883	17776	20076	19229	18866	17712	16082	14924	14221	15770	
AZ	4838	5626	6262	4202	13276	12864	13372	13227	12554	13162	13987	22275	18045	17935	20238	19386	19027	17875	16243	15086	14383	15930	
BA	4646	5380	5972	4123	12841	12483	13036	12924	12311	12928	13339	21603	17350	17229	19574	18783	18393	17196	15546	14390	13719	15305	
BB	4756	5538	6168	4134	13168	12762	13275	13134	12468	13078	13866	22154	17927	17821	20118	19266	18906	17755	16126	14968	14263	15809	
BC	4745	5526	6157	4125	13155	12750	13263	13122	12458	13067	13852	22141	17914	17809	20104	19252	18892	17741	16113	14955	14249	15795	
BD	4882	5629	6231	4327	13125	12761	13306	13189	12563	13179	13616	21869	17600	17458	19844	19069	18674	17459	15792	14640	13990	15587	
BE	4498	5208	5783	4021	12599	12258	12823	12722	12130	12750	13052	21316	17067	16954	19287	18501	18108	16909	15263	14107	13432	15020	
BF	4516	5226	5801	4039	12615	12275	12841	12740	12148	12768	13063	21325	17074	16959	19296	18514	18119	16918	15270	14114	13442	15032	
BG	4744	5516	6139	4143	13112	12717	13239	13104	12450	13061	13762	22044	17810	17698	20010	19174	18806	17643	16007	14850	14155	15711	
BH	4848	5629	6258	4228	13250	12847	13363	13223	12560	13170	13916	22197	17959	17843	20163	19327	18960	17795	16156	15000	14308	15865	
BI	5328	5364	5402	5685	9902	9995	10843	10990	10866	11501	8753	16850	12528	12443	14860	14432	13857	12423	10722	9568	9027	10845	
BJ	6310	6238	6169	6749	9766	10010	10926	11147	11163	11786	7879	15821	11418	11277	13864	13647	12976	11382	9600	8460	8071	10029	
BK	6320	6246	6177	6760	9763	10008	10925	11147	11164	11787	7867	15807	11404	11263	13851	13635	12964	11368	9586	8446	8059	10018	
BL	6277	6231	6185	6693	9916	10143	11053	11265	11262	11887	8068	16000	11585	11425	14047	13836	13165	11561	9765	8628	8258	10219	
BM	6296	6248	6201	6713	9916	10146	11057	11270	11269	11894	8054	15983	11566	11404	14030	13823	13151	11543	9746	8609	8242	10206	
BN	6306	6254	6204	6725	9898	10131	11043	11258	11260	11885	8027	15956	11540	11380	14003	13797	13124	11516	9720	8583	8215	10179	
BO	6245	6234	6218	6628	10121	10328	11227	11428	11401	12029	8321	16241	11810	11624	14293	14090	13418	11801	9988	8855	8508	10473	
BP	5444	5472	5501	5806	9917	10025	10880	11035	10925	11559	8684	16762	12427	12330	14777	14376	13789	12332	10619	9467	8948	10785	
BQ	6528	6427	6332	6989	9692	9972	10904	11142	11193	11812	7633	15541	11127	10983	13591	13415	12725	11101	9308	8169	7808	9794	
BR	5962	5946	5930	6355	9935	10116	11005	11195	11150	11779	8323	16312	11925	11785	14347	14065	13426	11875	10109	8966	8541	10456	
BS	6468	6375	6288	6922	9716	9986	10913	11147	11187	11808	7705	15622	11210	11067	13670	13484	12799	11182	9392	8253	7885	9863	
BT	6308	6292	6271	6695	10124	10340	11243	11448	11429	12056	8278	16186	11748	11556	14240	14052	13373	11745	9925	8794	8459	10434	
BU	5998	5985	5970	6388	9969	10153	11043	11234	11190	11819	8335	16314	11920	11773	14352	14081	13437	11877	10103	8962	8548	10471	
BV	6530	6435	6345	6986	9731	10008	10939	11176	11223	11843	7674	15578	11159	11009	13629	13458	12767	11137	9340	8202	7848	9836	
BW	6545	6445	6350	7004	9706	9988	10920	11159	11210	11830	7636	15540	11122	10976	13591	13420	12728	11099	9303	8165	7810	9799	
BX	5503	5544	5582	5851	10021	10130	10984	11139	11026	11660	8756	16817	12467	12352	14836	14456	13861	12385	10656	9507	9011	10862	
BY	4261	4785	5221	4091	11569	11346	12001	11972	11512	12146	11614	19842	15576	15474	17823	17129	16688	15430	13773	12617	11970	13615	
BZ	4264	4775	5201	4112	11515	11299	11959	11															

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-27 3:41 PM/4.0.424

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

WTG																								
NSA	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66		
CW	6953	6821	6694	7437	9696	10036	10991	11258	11362	11975	7313	15134	10683	10513	13200	13123	12390	10691	8860	7729	7447	9495		
CX	7446	7292	7142	7942	9809	10209	11186	11480	11636	12241	7061	14753	10251	10032	12844	12893	12108	10311	8421	7303	7139	9264		
CY	7829	7665	7502	8331	9944	10387	11377	11690	11882	12482	6921	14494	9947	9682	12607	12761	11933	10054	8113	7009	6951	9135		
CZ	7850	7682	7515	8355	9923	10371	11363	11678	11874	12473	6881	14452	9906	9643	12565	12722	11892	10012	8072	6968	6910	9096		
DA	6472	6407	6342	6901	9899	10156	11077	11303	11327	11949	7904	15800	11369	11197	13854	13686	12996	11359	9547	8413	8076	10065		
DB	6570	6470	6376	7029	9724	10008	10941	11181	11234	11853	7637	15533	11112	10961	13586	13423	12728	11093	9292	8155	7807	9801		
DC	6422	6382	6339	6830	10035	10274	11187	11404	11408	12033	8092	15985	11545	11357	14041	13873	13185	11543	9722	8590	8265	10252		
DD	7918	7750	7583	8422	9962	10416	11410	11728	11929	12528	6874	14420	9865	9591	12538	12716	11878	9981	8030	6929	6894	9090		
DE	6555	6469	6387	7002	9806	10081	11011	11247	11290	11910	7737	15627	11198	11035	13682	13524	12828	11186	9377	8242	7906	9902		
DF	6553	6471	6391	6998	9827	10100	11029	11264	11304	11925	7762	15650	11219	11052	13705	13549	12852	11209	9397	8263	7930	9926		
DG	7086	6942	6803	7579	9680	10040	11003	11279	11401	12012	7194	14988	10528	10352	13059	13010	12265	10545	8704	7574	7315	9381		
DH	7060	6924	6792	7546	9724	10077	11037	11309	11424	12036	7262	15055	10593	10411	13128	13077	12333	10613	8768	7640	7384	9449		
DI	6592	6506	6423	7038	9828	10107	11038	11275	11320	11940	7734	15614	11180	11011	13671	13523	12823	11173	9358	8224	7898	9901		
DJ	7097	6956	6821	7586	9714	10073	11035	11310	11431	12042	7223	15010	10545	10363	13083	13040	12293	10567	8721	7592	7342	9412		
DK	6588	6507	6427	7031	9853	10130	11059	11295	11338	11958	7765	15642	11206	11033	13700	13554	12854	11201	9383	8250	7928	9931		
DL	6623	6535	6449	7070	9829	10112	11044	11283	11333	11953	7712	15585	11148	10977	13643	13503	12800	11144	9326	8193	7872	9880		
DM	6638	6545	6454	7091	9799	10087	11021	11263	11317	11936	7667	15541	11105	10938	13598	13459	12755	11099	9283	8150	7827	9835		
DN	7202	7051	6905	7699	9693	10068	11036	11319	11455	12064	7119	14884	10414	10230	12961	12940	12183	10441	8588	7461	7227	9311		
DO	12346	12077	11801	12910	12049	12884	13956	14442	14980	15505	6482	11570	6643	5627	10088	11630	10315	7458	4937	4296	5886	8417		
DP	12351	12047	11741	12946	11694	12561	13635	14135	14710	15224	6006	11080	6163	5246	9575	11106	9788	6941	4434	3770	5385	7911		
DQ	12360	12056	11749	12956	11693	12561	13635	14136	14712	15226	5999	11065	6148	5231	9561	11095	9775	6928	4420	3757	5377	7902		
DR	12236	11950	11660	12816	11793	12637	13710	14200	14752	15273	6201	11370	6452	5513	9862	11361	10055	7227	4723	4047	5606	8138		
DS	12372	12073	11771	12963	11760	12623	13697	14196	14767	15282	6081	11139	6219	5280	9640	11181	9861	7008	4496	3841	5462	7988		
DT	12383	12084	11782	12974	11768	12631	13706	14205	14776	15291	6086	11134	6214	5272	9637	11181	9860	7005	4492	3840	5465	7990		
DU	12433	12133	11830	13024	11799	12665	13740	14240	14814	15328	6099	11107	6185	5231	9616	11178	9851	6986	4468	3827	5473	7996		
DV	12274	11993	11706	12850	11865	12708	13780	14270	14818	15340	6275	11415	6494	5532	9915	11429	10120	7281	4772	4108	5679	8210		
DW	12443	12181	11910	13002	12192	13025	14097	14581	15117	15643	6618	11634	6703	5643	10170	11745	10422	7545	5012	4396	6016	8545		
DX	12489	12186	11880	13083	11807	12679	13754	14257	14837	15349	6080	11040	6116	5156	9555	11134	9802	6927	4404	3774	5444	7964		
DY	12305	12023	11735	12882	11878	12724	13797	14287	14838	15359	6276	11391	6469	5501	9895	11419	10106	7262	4750	4092	5675	8206		
DZ	12484	12183	11879	13076	11824	12694	13769	14271	14849	15361	6105	11069	6145	5181	9585	11164	9833	6957	4434	3804	5471	7992		
EA	12153	11855	11555	12743	11613	12463	13537	14030	14590	15108	6008	11244	6335	5453	9716	11181	9883	7077	4590	3886	5416	7949		
EB	12119	11826	11530	12705	11637	12481	13554	14045	14598	15118	6060	11322	6413	5526	9793	11249	9954	7154	4668	3961	5474	8009		
EC	12137	11843	11546	12724	11634	12481	13554	14045	14601	15121	6045	11293	6384	5496	9765	11226	9930	7126	4639	3934	5456	7990		
ED	12250	11948	11644	12844	11636	12496	13570	14067	14636	15152	5984	11142	6229	5336	9624	11120	9812	6987	4491	3805	5377	7907		
EE	12253	11952	11649	12845	11653	12512	13586	14083	14650	15166	6006	11161	6247	5348	9644	11142	9834	7008	4510	3826	5399	7929		
EF	12203	11912	11617	12787	11717	12564	13637	14129	14684	15204	6118	11314	6399	5484	9797	11283	9980	7160	4664	3976	5524	8057		
EG	12329	12025	11719	12924	11677	12542	13616	14116	14690	15204	5994	11087	6171	5260	9578	11101	9785	6944	4439	3770	5376	7903		
EH	13048	12776	12495	13613	12561	13430	14504	15005	15575	16091	6790	11318	6382	5172	9937	11711	10331	7342	4769	4289	6121	8622		
EI	13079	12805	12522	13646	12558	13431	14506	15008	15582	16097	6770	11270	6333	5120	9892	11676	10293	7299	4725	4252	6097	8595		
EJ	13123	12844	12557	13694	12547	13426	14501	15005	15586	16099	6734	11192	6255	5040	9818	11617	10229	7227	4651	4189	6053	8547		
EK	13061	12791	12510	13624	12585	13454	14528	15028	15597	16113	6815	11336	6399	5183	9957	11735	10354	7363	4790	4312	6146	8647		
EL	12883	12605	12318	13454	12364	13232	14306	14806	15377	15893	6612	11266	6329	5184	9856	11575	10209	7250	4688	4166	5954	8462		
EM	12862	12587	12303	13431	12376	13240	14315	14813	15380	15897	6638	11312	6375	5229	9900	11613	10249	7294	4732	4207	5984	8494		
EN	12903	12625	12339	13474	12382	13251	14325	14826	15397	15912	6626	11264	6327	5175	9857	11583	10215	7253	4689	4172	5966	8473		
EO	12898	12623	12339	13466	12409	13275	14349	14848	15416	15933	6665	11311	6374	5216	9905	11629	10262	7301	4737	4220	6008	8516		
EP	12925	12647	12361	13495	12402	13271	14345	14846	15418	15933	6641	11261	6324	5165	9858	11591	10221	7255	4689	4178	5979	8485		
EQ	12671	12388	12099																					

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-27 3:41 PM/4.0.424

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

WTG												
NSA	45	46	47	48	49	50	51	52	53	54	55	56
FM	12631	12165	11725	13356	10121	11145	12211	12788	13550	13996	3828	8782
FN	5212	5382	5530	5437	10555	10580	11388	11496	11291	11930	9583	17663
FO	5185	5334	5466	5433	10430	10461	11274	11386	11191	11829	9454	17543

WTG												
NSA	67	68	69	70	71	72	73	74	75	76	77	78
A	10745	15370	14518	18962	18766	15081	17161	18548	18242	14030	13703	17708
B	10968	15782	14845	19199	19083	15384	17590	18989	18468	14183	13991	17960
C	11324	15875	15068	19536	19318	15638	17653	19031	18819	14615	14266	18280
D	11309	15872	15059	19522	19309	15628	17651	19030	18804	14597	14254	18267
E	7543	11507	10848	15559	15100	11477	13276	14655	14888	11057	10164	14260
F	13597	20255	17794	19143	20760	17714	22068	23496	18348	14005	16478	18517
G	13532	20189	17725	19069	20688	17644	22001	23429	18275	13934	16409	18445
H	13553	20208	17742	19077	20700	17659	22019	23447	18282	13945	16426	18454
I	12862	19518	17057	18443	20038	16980	21331	22760	17646	13283	15742	17804
J	14182	20850	18412	19820	21418	18346	22673	24107	19024	14662	17098	19185
K	14205	20874	18436	19841	21441	18369	22697	24130	19045	14685	17121	19207
L	13276	19931	17467	18818	20432	17385	21743	23171	18023	13677	16151	18190
M	13089	19744	17280	18644	20251	17200	21556	22984	17849	13496	15965	18012
N	13099	19754	17290	18653	20260	17210	21566	22994	17857	13505	15974	18021
O	13197	19852	17386	18738	20350	17304	21663	23090	17942	13595	16070	18109
P	13992	20661	18222	19636	21231	18156	22483	23917	18840	14475	16908	18999
Q	12200	18843	16362	17710	19314	16274	20647	22071	16913	12559	15046	17075
R	12211	18853	16372	17716	19322	16283	20657	22081	16920	12567	15056	17082
S	12875	19529	17064	18434	20036	16984	21340	22768	17637	13280	15748	17799
T	12683	19337	16874	18261	19854	16796	21149	22577	17464	13098	15559	17621
U	13786	20454	18014	19434	21024	17948	22276	23709	18637	14268	16700	18795
V	11879	18530	16064	17483	19055	15987	20340	21768	16684	12299	14749	16830
W	12704	19352	16878	18222	19833	16792	21159	22585	17427	13078	15562	17592
X	12725	19372	16898	18239	19851	16811	21180	22605	17443	13096	15582	17609
Y	12500	19149	16676	18034	19637	16591	20956	22382	17237	12882	15359	17399
Z	12466	19114	16641	18001	19603	16557	20922	22348	17205	12848	15325	17366
AA	12624	19272	16797	18142	19752	16711	21079	22504	17346	12997	15480	17511
AB	13970	20636	18193	19592	21192	18124	22457	23890	18796	14437	16879	18958
AC	13979	20645	18201	19594	21197	18131	22465	23898	18798	14441	16886	18962
AD	12636	19287	16820	18191	19790	16738	21097	22524	17394	13034	15504	17554
AE	12618	19269	16800	18169	19769	16718	21079	22505	17372	13013	15484	17532
AF	12634	19285	16816	18182	19783	16734	21094	22521	17386	13028	15500	17546
AG	14344	21019	18599	20064	21640	18544	22849	24286	19267	14884	17286	19418
AH	14327	21002	18582	20047	21623	18527	22831	24269	19249	14867	17269	19400
AI	12407	19054	16581	17941	19542	16496	20862	22287	17144	12787	15264	17305
AJ	12485	19132	16657	18010	19615	16572	20939	22364	17214	12860	15341	17376
AK	12422	19069	16595	17951	19554	16509	20876	22301	17154	12799	15278	17316
AL	12346	18993	16518	17877	19478	16433	20800	22225	17081	12723	15202	17241
AM	12435	19081	16606	17957	19562	16519	20888	22313	17161	12807	15289	17323
AN	14202	20876	18454	19918	21494	18399	22705	24142	19121	14738	17141	19272
AO	13830	20494	18045	19428	21034	17972	22312	23743	18633	14278	16730	18797
AP	13694	20358	17910	19302	20903	17838	22177	23608	18506	14147	16595	18668
AQ	14216	20890	18465	19920	21500	18408	22717	24154	19123	14743	17152	19275
AR	14240	20913	18487	19938	21519	18429	22740	24176	19141	14763	17174	19294
AS	13709	20373	17924	19313	20915	17852	22191	23622	18518	14160	16609	18680
AT	13932	20595	18143	19515	21126	18069	22412	23843	18720	14371	16828	18887
AU	13921	20584	18132	19502	21114	18058	22401	23832	18707	14359	16817	18875
AV	13692	20355	17905	19291	20895	17833	22173	23604	18496	14139	16590	18659
AW	14209	20882	18456	19906	21487	18397	22709	24145	19108	14731	17142	19262
AX	14324	20997	18569	20007	21594	18509	22823	24259	19210	14838	17255	19367
AY	14132	20803	18373	19811	21396	18312	22629	24064	19014	14640	17059	19169
AZ	14291	20963	18535	19972	21559	18475	22789	24225	19175	14803	17221	19332
BA	13675	20338	17888	19272	20876	17815	22156	23587	18476	14120	16573	18640
BB	14171	20843	18414	19855	21440	18354	22669	24104	19058	14683	17100	19213
BC	14156	20829	18400	19842	21426	18340	22655	24090	19045	14670	17086	19200
BD	13959	20620	18164	19516	21135	18087	22436	23865	18721	14381	16849	18892
BE	13392	20053	17601	18991	20590	17527	21870	23300	18195	13834	16285	18355
BF	13404	20065	17611	18997	20598	17537	21881	23311	18201	13842	16296	18363
BG	14075	20745	18310	19736	21326	18247	22569	24003	18939	14570	16996	19097
BH	14229	20899	18464	19884	21478	18401	22723	24157	19088	14722	17150	19247

To be continued on next page...

Project:

Setapuktuk Wind Project

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Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-27 3:41 PM/4.0.424

DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

WTG	NSA	67	68	69	70	71	72	73	74	75	76	77	78
BI	9307	15838	13271	14450	16081	13128	17597	18996	13653	9333	11954	13822	
BJ	8560	14970	12345	13317	15011	12156	16692	18069	12525	8287	11033	12723	
BK	8549	14958	12332	13303	14998	12143	16679	18057	12511	8273	11021	12710	
BL	8749	15159	12532	13479	15186	12341	16879	18256	12689	8466	11221	12893	
BM	8737	15145	12517	13459	15168	12325	16864	18241	12669	8448	11206	12874	
BN	8711	15118	12490	13433	15141	12297	16837	18213	12643	8421	11178	12848	
BO	9002	15412	12783	13696	15421	12589	17131	18507	12908	8706	11472	13122	
BP	9253	15772	13196	14345	15986	13047	17527	18923	13549	9242	11880	13723	
BQ	8342	14721	12085	13024	14726	11887	16434	17808	12233	8006	10775	12434	
BR	8962	15416	12808	13827	15512	12632	17150	18534	13035	8781	11494	13229	
BS	8406	14794	12161	13108	14808	11966	16510	17884	12317	8087	10851	12517	
BT	8968	15368	12735	13632	15362	12538	17084	18458	12844	8650	11425	13060	
BU	8979	15428	12816	13820	15511	12638	17159	18542	13028	8782	11503	13226	
BV	8385	14762	12125	13054	14761	11926	16475	17848	12263	8042	10815	12467	
BW	8348	14724	12087	13019	14723	11888	16437	17809	12228	8004	10777	12430	
BX	9335	15846	13264	14379	16035	13110	17596	18990	13584	9293	11948	13766	
BY	12005	18645	16160	17501	19105	16069	20447	21870	16704	12351	14843	16866	
BZ	11928	18566	16079	17417	19022	15987	20367	21790	16620	12267	14762	16782	
CA	11948	18585	16097	17428	19036	16004	20386	21808	16632	12282	14780	16795	
CB	11908	18545	16057	17392	18998	15965	20346	21768	16595	12243	14741	16757	
CC	11919	18555	16067	17398	19005	15973	20356	21778	16601	12251	14750	16764	
CD	8889	15317	12697	13664	15367	12511	17042	18422	12874	8643	11385	13077	
CE	8856	15282	12662	13630	15332	12476	17007	18387	12839	8608	11350	13042	
CF	9390	15932	13371	14572	16196	13233	17695	19096	13775	9447	12054	13941	
CG	9412	15953	13390	14582	16210	13250	17714	19115	13785	9461	12073	13953	
CH	9329	15868	13304	14498	16124	13164	17629	19029	13701	9375	11987	13868	
CI	9341	15877	13311	14497	16125	13170	17637	19036	13700	9378	11994	13868	
CJ	9286	15821	13254	14443	16070	13113	17581	18980	13646	9322	11938	13813	
CK	8440	14794	12148	13023	14750	11940	16500	17868	12234	8041	10840	12448	
CL	7911	14169	11496	12276	14024	11263	15851	17207	11488	7333	10194	11711	
CM	7938	14197	11524	12301	14051	11291	15879	17235	11514	7361	10222	11738	
CN	7877	14040	11343	11975	13773	11083	15699	17041	11193	7118	10049	11441	
CO	8415	14766	12119	12991	14718	11910	16471	17839	12202	8010	10811	12416	
CP	7868	14021	11321	11938	13741	11059	15677	17017	11157	7090	10028	11407	
CQ	7946	14190	11512	12263	14022	11275	15868	17222	11476	7338	10212	11705	
CR	7870	14012	11310	11910	13719	11045	15666	17005	11129	7072	10018	11383	
CS	7958	14174	11490	12193	13969	11244	15846	17195	11408	7295	10191	11645	
CT	3881	9144	6388	7423	8873	6080	10732	12048	6609	2128	5129	6658	
CU	7830	13955	11249	11831	13645	10980	15605	16941	11050	7003	9959	11306	
CV	7891	14018	11313	11887	13705	11043	15668	17005	11107	7066	10022	11365	
CW	8081	14389	11729	12569	14301	11510	16083	17446	11780	7598	10424	11995	
CX	7902	14108	11421	12117	13894	11174	15777	17126	11333	7223	10124	11570	
CY	7818	13933	11226	11795	13613	10954	15581	16916	11015	6975	9936	11273	
CZ	7781	13893	11184	11755	13571	10912	15540	16875	10975	6933	9895	11232	
DA	8611	14992	12354	13258	14978	12153	16704	18076	12469	8264	11045	12680	
DB	8353	14724	12085	13006	14715	11884	16435	17807	12216	7998	10775	12420	
DC	8795	15180	12543	13429	15159	12341	16893	18265	12641	8449	11233	12857	
DD	7785	13878	11166	11709	13535	10889	15521	16853	10930	6905	9878	11192	
DE	8454	14824	12184	13089	14806	11982	16534	17906	12299	8091	10875	12508	
DF	8478	14849	12208	13109	14827	12005	16558	17929	12319	8114	10899	12529	
DG	7980	14264	11598	12411	14150	11373	15953	17312	11623	7452	10294	11841	
DH	8046	14332	11667	12475	14217	11441	16022	17381	11687	7520	10363	11907	
DI	8456	14820	12177	13069	14790	11972	16528	17898	12279	8078	10868	12490	
DJ	8012	14292	11625	12427	14170	11398	15980	17338	11639	7474	10321	11860	
DK	8486	14850	12207	13093	14817	12002	16558	17928	12304	8106	10898	12517	
DL	8437	14796	12152	13036	14760	11945	16503	17872	12247	8049	10843	12459	
DM	8394	14752	12107	12994	14716	11901	16458	17827	12205	8005	10799	12416	
DN	7922	14182	11510	12294	14041	11279	15866	17222	11506	7349	10208	11729	
DO	7867	12176	9390	8083	10420	8813	13455	14572	7411	5042	8344	7968	
DP	7402	11650	8863	7657	9947	8288	12935	14060	6967	4519	7818	7495	
DQ	7395	11637	8850	7642	9932	8275	12921	14046	6952	4508	7806	7480	
DR	7586	11924	9134	7937	10236	8567	13218	14347	7251	4772	8079	7784	
DS	7477	11721	8935	7701	10001	8358	13003	14125	7014	4595	7892	7549	
DT	7481	11720	8934	7694	9996	8357	13000	14122	7008	4595	7892	7544	
DU	7497	11708	8923	7657	9966	8343	12982	14101	6973	4594	7887	7513	
DV	7661	11986	9197	7966	10276	8626	13275	14400	7284	4840	8145	7824	

To be continued on next page...

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DECIBEL - Main Result

Calculation: 250821 - WF1 - Low Frequency

...continued from previous page

WTG	NSA	67	68	69	70	71	72	73	74	75	76	77	78
DW	8005	12277	9493	8116	10475	8910	13543	14653	7452	5159	8456	8023	
DX	7480	11655	8872	7584	9896	8288	12924	14039	6901	4553	7841	7444	
DY	7664	11971	9183	7937	10250	8610	13256	14379	7256	4831	8134	7798	
DZ	7505	11685	8902	7611	9925	8318	12954	14069	6928	4582	7871	7473	
EA	7394	11758	8966	7852	10122	8405	13064	14201	7156	4591	7903	7671	
EB	7442	11831	9038	7928	10200	8480	13140	14278	7233	4659	7972	7749	
EC	7429	11806	9013	7898	10170	8454	13113	14250	7203	4637	7949	7719	
ED	7376	11681	8891	7738	10015	8324	12977	14109	7044	4531	7837	7564	
EE	7397	11702	8913	7753	10033	8345	12998	14129	7060	4553	7859	7581	
EF	7504	11851	9061	7898	10184	8496	13150	14282	7207	4694	8002	7733	
EG	7389	11649	8861	7669	9955	8288	12936	14063	6977	4514	7814	7503	
EH	8198	12143	9383	7689	10123	8759	13342	14410	7055	5163	8404	7678	
EI	8181	12102	9344	7638	10073	8718	13298	14364	7004	5132	8368	7629	
EJ	8146	12035	9278	7557	9994	8650	13226	14290	6924	5078	8308	7550	
EK	8224	12165	9406	7701	10139	8781	13363	14430	7069	5187	8428	7694	
EL	8018	12033	9265	7680	10084	8653	13252	14333	7033	5015	8271	7635	
EM	8043	12074	9306	7726	10130	8695	13295	14378	7079	5050	8310	7681	
EN	8033	12038	9271	7674	10080	8657	13254	14334	7028	5024	8279	7632	
EO	8071	12085	9318	7717	10126	8705	13302	14382	7072	5069	8325	7678	
EP	8048	12042	9276	7666	10076	8661	13256	14334	7021	5034	8286	7628	
EQ	7845	11960	9184	7732	10099	8586	13204	14302	7069	4894	8170	7648	
ER	8090	12093	9327	7711	10124	8712	13307	14385	7068	5083	8337	7677	
ES	7891	12002	9227	7755	10129	8627	13243	14339	7096	4940	8214	7678	
ET	8128	12057	9297	7612	10041	8674	13256	14325	6976	5081	8320	7596	
EU	7930	12027	9254	7760	10140	8652	13265	14358	7103	4972	8244	7689	
EV	8147	12072	9313	7619	10050	8688	13269	14337	6984	5098	8336	7605	
EW	8164	12104	9344	7656	10087	8720	13303	14372	7021	5124	8365	7642	
EX	7828	13996	11301	11949	13740	11043	15657	17000	11166	7081	10006	11410	
EY	7842	14019	11325	11985	13773	11070	15682	17026	11202	7110	10030	11445	
EZ	7559	11876	9087	7884	10182	8518	13168	14295	7197	4729	8035	7730	
FA	7964	11990	9221	7662	10058	8611	13213	14298	7011	4965	8224	7608	
FB	3046	9714	7525	10582	11240	7682	11585	13050	9788	5177	6278	9510	
FC	9016	14687	13283	17167	17410	13699	16574	18032	16397	11890	12260	16003	
FD	10931	15588	14725	19152	18971	15283	17380	18768	18430	14201	13903	17901	
FE	10758	15463	14574	18982	18818	15127	17261	18654	18258	14017	13743	17734	
FF	11021	16067	15017	19252	19237	15526	17897	19312	18508	14144	14117	18034	
FG	8437	13605	12452	16670	16661	12948	15461	16897	15929	11609	11535	15448	
FH	4502	9914	7156	7958	9539	6835	11496	12806	7149	2841	5899	7271	
FI	3892	9188	6434	7478	8928	6129	10779	12097	6664	2183	5172	6713	
FJ	3867	9244	6498	7595	9030	6205	10846	12169	6780	2280	5229	6823	
FK	5065	8892	6096	5807	7654	5556	10241	11426	5014	1774	5042	5271	
FL	5213	8954	6163	5737	7631	5606	10282	11454	4950	1886	5128	5234	
FM	5252	9081	6288	5871	7774	5739	10418	11593	5085	1979	5242	5376	
FN	10130	16668	14099	15208	16879	13951	18427	19825	14415	10139	12782	14605	
FO	9997	16539	13972	15104	16764	13827	18299	19698	14310	10021	12655	14495	

APPENDIX D

SHADOW FLICKER

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

Assumptions for shadow calculations

Maximum distance for influence

Calculate only when more than 20 % of sun is covered by the blade

Please look in WTG table

Minimum sun height over horizon for influence

3 °

Day step for calculation

1 days

Time step for calculation

1 minutes

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

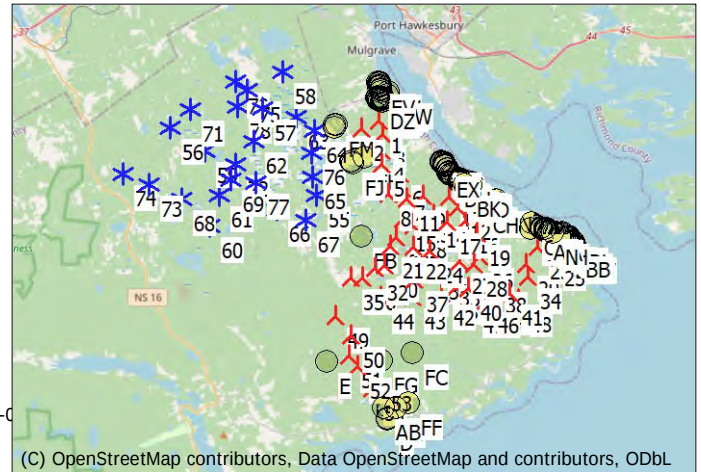
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:

Height contours used: Elevation Grid Data Object: 2025073_WF1_RECOVER001 2025-0

Receptor grid resolution: 1.0 m

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



Scale 1:400,000
New WTG
Shadow receptor

WTGs

	Easting	Northing	Z	Row data/Description	WTG type			Shadow data				
					Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM
			[m]									[RPM]
1	626,011.47	5,047,867.17	135.4	T1: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
2	625,155.46	5,047,399.23	149.9	T2: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
3	626,271.31	5,047,175.54	150.2	T3: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
4	626,198.76	5,046,320.50	164.5	T4: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
5	626,250.94	5,045,552.45	174.6	T5: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
6	627,192.41	5,045,103.59	179.2	T6: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
7	627,332.04	5,044,342.87	173.6	T7: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
8	626,569.49	5,044,008.44	173.9	T8: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
9	628,450.74	5,043,919.96	163.0	T9: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
10	629,801.48	5,043,902.37	121.8	T10: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
11	627,541.69	5,043,750.30	162.9	T11: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
12	630,304.06	5,043,393.67	121.3	T12: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
13	628,178.79	5,043,190.91	159.3	T13: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
14	629,005.54	5,042,912.23	149.9	T14: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
15	627,436.55	5,042,697.86	150.0	T15: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
16	630,709.88	5,042,672.74	108.5	T16: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
17	629,745.46	5,042,585.95	130.2	T17: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
18	627,992.60	5,042,362.42	144.8	T18: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
19	631,379.53	5,042,023.47	98.4	T19: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
20	627,055.70	5,041,715.41	157.3	T20: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
21	626,728.73	5,041,269.78	154.0	T21: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
22	627,970.15	5,041,280.54	146.2	T22: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
23	634,596.13	5,041,414.80	60.4	T23: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
24	628,826.14	5,041,073.56	136.9	T24: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
25	635,323.57	5,041,020.32	60.2	T25: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
26	631,538.69	5,040,805.32	116.3	T26: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
27	630,473.01	5,040,529.65	128.7	T27: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
28	631,241.14	5,040,422.30	109.8	T28: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
29	633,974.16	5,040,461.18	92.4	T29: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
30	626,522.83	5,040,243.12	134.2	T30: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
31	629,268.98	5,040,212.41	142.9	T31: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
32	625,972.19	5,040,070.88	136.2	T32: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
33	629,777.78	5,039,871.70	131.3	T33: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
34	634,097.04	5,039,794.70	99.4	T34: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
35	624,681.32	5,039,548.30	137.6	T35: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
36	625,320.45	5,039,519.91	148.4	T36: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
37	628,084.13	5,039,486.80	131.9	T37: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
38	632,248.10	5,039,516.49	95.0	T38: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
39	630,293.84	5,039,146.63	121.7	T39: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-

To be continued on next page...

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

	Easting	Northing	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.					Calculation distance [m]	RPM
			[m]									[RPM]
40	630,943.33	5,039,113.46	115.8	T40: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
41	633,152.51	5,038,925.43	86.0	T41: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
42	629,539.96	5,038,822.04	113.1	T42: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
43	627,975.66	5,038,596.56	122.5	T43: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
44	626,345.12	5,038,550.19	119.0	T44: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
45	632,703.38	5,038,612.49	83.3	T45: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
46	631,851.46	5,038,453.38	98.4	T46: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
47	631,126.68	5,038,419.30	103.0	T47: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
48	633,626.00	5,038,526.76	75.7	T48: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
49	623,923.03	5,037,457.19	102.1	T49: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
50	624,732.28	5,036,471.18	91.2	T50: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
51	624,677.75	5,035,397.16	103.9	T51: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
52	625,139.73	5,034,859.53	91.9	T52: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
53	626,324.82	5,034,263.73	72.0	T53: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
54	625,948.76	5,033,746.07	56.4	T54: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
55	622,768.22	5,043,892.69	162.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
56	615,028.22	5,047,260.69	156.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
57	619,844.22	5,048,347.69	172.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
58	620,897.22	5,050,284.69	170.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
59	616,839.22	5,046,105.69	180.8	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
60	617,180.22	5,042,189.70	162.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
61	617,664.22	5,043,801.69	177.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
62	619,430.22	5,046,659.69	182.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
63	621,650.22	5,047,994.69	167.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
64	622,605.22	5,047,280.69	165.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
65	622,550.22	5,044,814.69	164.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
66	620,700.22	5,043,074.69	164.1	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
67	622,300.22	5,042,545.69	151.4	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
68	615,685.22	5,043,509.70	172.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
69	618,273.22	5,044,586.69	183.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
70	618,361.22	5,049,775.69	341.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
71	616,057.22	5,048,218.69	161.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
72	618,491.22	5,045,409.69	186.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
73	613,929.22	5,044,259.70	161.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
74	612,550.22	5,044,794.70	159.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
75	619,016.22	5,049,288.69	173.4	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
76	622,476.22	5,046,110.69	155.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
77	619,585.22	5,044,466.69	180.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
78	618,499.22	5,048,443.69	176.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7

Shadow receptor-Input

No.	Easting	Northing	Z	Width	Height	Elevation	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	a.g.l.	[°]		[m]
A	626,617.83	5,032,705.89	33.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B	627,228.13	5,032,747.29	29.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C	626,761.53	5,032,137.59	34.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D	626,784.33	5,032,163.89	34.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
E	623,544.83	5,035,105.69	95.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F	635,889.53	5,042,081.79	18.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G	635,825.83	5,042,118.59	17.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H	635,847.13	5,042,149.39	17.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I	635,156.13	5,042,155.09	18.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J	636,456.04	5,041,689.18	50.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K	636,479.83	5,041,689.69	49.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L	635,571.03	5,042,163.89	2.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M	635,383.83	5,042,170.39	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N	635,393.83	5,042,172.59	8.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O	635,492.53	5,042,185.39	2.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P	636,268.23	5,041,718.29	52.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Q	634,499.93	5,042,483.89	17.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R	634,510.73	5,042,491.09	15.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S	635,171.03	5,042,210.39	13.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	[m]	[°]		[m]
T	634,978.23	5,042,203.14	12.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U	636,063.97	5,041,756.94	48.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
V	634,177.41	5,042,324.50	40.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W	635,002.43	5,042,351.29	4.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X	635,023.33	5,042,357.69	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y	634,799.23	5,042,358.49	3.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z	634,765.23	5,042,362.79	6.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA	634,923.03	5,042,369.79	0.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AB	636,249.54	5,041,785.35	45.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AC	636,259.83	5,041,802.69	43.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AD	634,932.93	5,042,272.99	6.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AE	634,915.63	5,042,288.59	4.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AF	634,931.53	5,042,290.89	4.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AG	636,599.93	5,041,413.79	58.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AH	636,583.03	5,041,418.69	58.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AI	634,705.93	5,042,377.69	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AJ	634,783.83	5,042,382.19	4.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AK	634,721.51	5,042,388.36	9.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AL	634,645.53	5,042,398.59	11.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AM	634,734.43	5,042,402.29	6.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AN	636,460.83	5,041,460.05	60.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AO	636,114.23	5,041,883.99	34.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AP	635,978.73	5,041,889.09	32.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AQ	636,476.94	5,041,490.76	60.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AR	636,501.43	5,041,502.19	59.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AS	635,994.03	5,041,895.79	31.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AT	636,216.93	5,041,901.89	34.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AU	636,206.83	5,041,909.69	33.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AV	635,977.93	5,041,913.99	29.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AW	636,471.23	5,041,513.59	60.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AX	636,588.03	5,041,525.79	54.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AY	636,399.43	5,041,585.13	60.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AZ	636,555.73	5,041,539.19	56.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BA	635,961.53	5,041,924.19	28.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BB	636,436.33	5,041,558.99	60.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BC	636,422.33	5,041,559.69	61.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BD	636,247.64	5,041,969.46	26.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BE	635,680.33	5,041,983.89	20.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BF	635,693.13	5,041,997.09	19.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BG	636,346.70	5,041,650.66	57.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BH	636,499.13	5,041,628.19	52.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BI	631,520.83	5,043,807.39	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BJ	630,617.93	5,044,567.79	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BK	630,605.43	5,044,574.29	2.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BL	630,805.13	5,044,595.89	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BM	630,789.83	5,044,610.79	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BN	630,762.73	5,044,612.29	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BO	631,056.33	5,044,636.69	3.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BP	631,452.33	5,043,910.79	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BQ	630,357.62	5,044,704.71	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BR	631,078.73	5,044,349.09	8.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BS	630,433.93	5,044,668.99	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BT	631,008.16	5,044,688.76	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BU	631,087.93	5,044,389.29	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BV	630,397.58	5,044,721.88	6.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BW	630,359.30	5,044,722.79	8.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BX	631,523.53	5,043,987.39	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BY	634,305.68	5,042,560.70	19.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BZ	634,228.43	5,042,594.19	18.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CA	634,248.53	5,042,610.19	15.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CB	634,208.53	5,042,610.49	17.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CC	634,219.33	5,042,620.69	16.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CD	630,969.73	5,044,509.09	2.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CE	630,934.63	5,044,513.49	2.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CF	631,616.17	5,043,721.31	4.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
CG	631,636.13	5,043,741.49	3.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CH	631,550.83	5,043,755.89	8.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CI	631,559.43	5,043,779.09	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CJ	631,503.33	5,043,784.99	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CK	630,418.23	5,044,853.79	5.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CL	629,752.63	5,045,201.39	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CM	629,780.63	5,045,202.89	7.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CN	629,573.43	5,045,570.49	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CO	630,388.63	5,044,866.18	6.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CP	629,548.03	5,045,606.59	11.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CQ	629,765.43	5,045,268.69	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CR	629,533.33	5,045,648.39	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CS	629,735.23	5,045,383.09	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CT	624,564.03	5,045,697.49	141.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CU	629,467.33	5,045,699.09	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CV	629,530.23	5,045,707.29	3.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CW	629,994.68	5,045,016.51	5.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CX	629,664.73	5,045,409.79	4.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CY	629,440.73	5,045,729.59	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CZ	629,398.73	5,045,732.89	13.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DA	630,626.33	5,044,741.69	3.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DB	630,357.02	5,044,748.83	8.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DC	630,814.73	5,044,750.99	4.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DD	629,373.63	5,045,796.39	8.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DE	630,455.73	5,044,770.49	6.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DF	630,479.63	5,044,776.99	7.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DG	629,859.63	5,045,103.29	4.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DH	629,928.53	5,045,104.69	2.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DI	630,448.13	5,044,806.39	6.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DJ	629,885.53	5,045,125.99	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DK	630,478.03	5,044,813.59	5.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DL	630,422.63	5,044,829.89	6.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DM	630,377.63	5,044,830.09	6.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DN	629,767.63	5,045,189.39	9.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DO	626,426.83	5,049,243.59	5.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DP	625,975.93	5,048,970.09	2.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DQ	625,960.63	5,048,971.69	3.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DR	626,262.03	5,049,015.49	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DS	626,025.83	5,049,028.09	1.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DT	626,019.63	5,049,036.89	1.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DU	625,985.93	5,049,074.29	5.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DV	626,296.83	5,049,082.09	5.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DW	626,467.23	5,049,380.29	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DX	625,914.53	5,049,094.99	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DY	626,269.43	5,049,101.59	3.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DZ	625,942.33	5,049,107.49	6.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EA	626,159.13	5,048,852.49	22.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EB	626,236.83	5,048,861.49	20.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EC	626,206.83	5,048,864.39	20.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ED	626,049.23	5,048,897.49	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EE	626,066.03	5,048,911.79	8.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EF	626,215.33	5,048,947.59	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EG	625,985.23	5,048,950.29	2.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EH	626,049.63	5,049,836.59	9.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EI	625,998.53	5,049,842.59	13.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EJ	625,917.73	5,049,844.69	20.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EK	626,062.23	5,049,858.79	6.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EL	626,040.33	5,049,638.39	14.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EM	626,086.33	5,049,642.19	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EN	626,034.03	5,049,658.29	15.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EO	626,077.63	5,049,678.09	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EP	626,026.63	5,049,679.09	14.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EQ	626,084.53	5,049,417.19	4.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ER	626,072.13	5,049,702.99	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ES	626,109.83	5,049,456.69	2.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
ET	625,973.63	5,049,796.49	16.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EU	626,116.03	5,049,497.79	2.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EV	625,980.13	5,049,814.29	15.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EW	626,017.03	5,049,814.99	12.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EX	629,533.79	5,045,539.08	15.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EY	629,561.04	5,045,508.90	13.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EZ	626,208.08	5,049,016.06	3.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FA	626,021.23	5,049,586.82	16.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FB	625,235.30	5,041,730.71	146.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FC	628,074.66	5,035,621.55	51.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FD	626,803.90	5,032,585.09	33.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FE	626,823.36	5,032,784.31	44.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FF	627,868.70	5,033,035.10	36.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FG	626,463.80	5,035,207.60	68.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FH	625,308.51	5,045,894.76	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FI	624,614.70	5,045,674.30	141.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FJ	624,693.97	5,045,583.30	142.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FK	623,669.87	5,047,422.49	144.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FL	623,661.18	5,047,578.14	144.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FM	623,804.74	5,047,577.31	153.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FN	632,350.92	5,043,812.23	16.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FO	632,221.59	5,043,774.78	17.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Calculation Results

Shadow receptor

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
A	0:00	0	0:00
B	0:00	0	0:00
C	0:00	0	0:00
D	0:00	0	0:00
E	33:39	90	0:37
F	16:24	43	0:30
G	30:45	94	0:31
H	18:00	48	0:30
I	43:12	66	0:48
J	25:34	80	0:33
K	24:45	79	0:33
L	31:54	70	0:36
M	52:58	88	0:41
N	52:30	90	0:40
O	46:18	96	0:38
P	42:49	124	0:38
Q	0:00	0	0:00
R	0:00	0	0:00
S	32:21	56	0:42
T	6:48	24	0:23
U	64:15	127	0:44
V	0:00	0	0:00
W	0:00	0	0:00
X	0:00	0	0:00
Y	0:00	0	0:00
Z	0:00	0	0:00
AA	0:00	0	0:00
AB	51:43	120	0:38
AC	51:00	117	0:37
AD	0:00	0	0:00
AE	0:00	0	0:00
AF	0:00	0	0:00
AG	18:30	65	0:30
AH	19:03	65	0:32
AI	0:00	0	0:00

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-09-18 12:15 PM/4.0.424

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
AJ	0:00	0	0:00
AK	0:00	0	0:00
AL	0:00	0	0:00
AM	0:00	0	0:00
AN	23:22	74	0:35
AO	41:31	93	0:38
AP	36:01	115	0:30
AQ	22:44	73	0:33
AR	21:44	71	0:33
AS	36:57	116	0:31
AT	44:23	98	0:37
AU	42:56	97	0:37
AV	32:17	111	0:29
AW	22:53	73	0:34
AX	19:08	67	0:31
AY	26:34	80	0:36
AZ	20:04	69	0:32
BA	28:37	105	0:30
BB	24:38	76	0:34
BC	25:09	78	0:35
BD	37:52	92	0:35
BE	38:07	102	0:35
BF	37:29	100	0:35
BG	30:54	90	0:36
BH	23:01	74	0:33
BI	45:21	140	0:33
BJ	51:08	132	0:41
BK	51:00	130	0:41
BL	43:25	127	0:35
BM	43:25	126	0:35
BN	44:12	127	0:36
BO	16:17	42	0:30
BP	42:11	122	0:34
BQ	60:21	107	0:46
BR	52:46	108	0:37
BS	66:35	120	0:44
BT	17:44	46	0:30
BU	47:00	102	0:36
BV	58:36	106	0:44
BW	56:36	103	0:46
BX	38:28	117	0:31
BY	0:00	0	0:00
BZ	0:00	0	0:00
CA	0:00	0	0:00
CB	0:00	0	0:00
CC	0:00	0	0:00
CD	20:41	59	0:32
CE	19:06	44	0:33
CF	62:19	165	0:33
CG	60:14	161	0:32
CH	55:14	155	0:32
CI	51:45	150	0:32
CJ	48:22	147	0:33
CK	34:48	81	0:37
CL	24:38	70	0:25
CM	24:18	72	0:24
CN	4:58	22	0:17
CO	29:43	76	0:35
CP	5:03	22	0:18
CQ	22:25	62	0:24
CR	5:06	23	0:18
CS	13:44	44	0:23
CT	21:51	75	0:25
CU	5:22	23	0:18

To be continued on next page...

Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-09-18 12:15 PM/4.0.424

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
CV	5:02	22	0:18
CW	11:30	38	0:23
CX	7:15	30	0:18
CY	5:30	23	0:18
CZ	12:41	54	0:19
DA	52:10	119	0:38
DB	51:08	98	0:45
DC	26:20	62	0:33
DD	5:47	24	0:19
DE	52:01	102	0:42
DF	51:45	103	0:41
DG	15:26	50	0:24
DH	13:30	44	0:24
DI	45:30	95	0:41
DJ	15:06	50	0:24
DK	45:52	94	0:40
DL	39:38	87	0:39
DM	36:25	84	0:39
DN	24:38	72	0:24
DO	0:00	0	0:00
DP	0:00	0	0:00
DQ	0:00	0	0:00
DR	0:00	0	0:00
DS	0:00	0	0:00
DT	0:00	0	0:00
DU	0:00	0	0:00
DV	0:00	0	0:00
DW	0:00	0	0:00
DX	0:00	0	0:00
DY	0:00	0	0:00
DZ	0:00	0	0:00
EA	0:00	0	0:00
EB	0:00	0	0:00
EC	0:00	0	0:00
ED	0:00	0	0:00
EE	0:00	0	0:00
EF	0:00	0	0:00
EG	0:00	0	0:00
EH	0:00	0	0:00
EI	0:00	0	0:00
EJ	0:00	0	0:00
EK	0:00	0	0:00
EL	0:00	0	0:00
EM	0:00	0	0:00
EN	0:00	0	0:00
EO	0:00	0	0:00
EP	0:00	0	0:00
EQ	0:00	0	0:00
ER	0:00	0	0:00
ES	0:00	0	0:00
ET	0:00	0	0:00
EU	0:00	0	0:00
EV	0:00	0	0:00
EW	0:00	0	0:00
EX	0:00	0	0:00
EY	0:00	0	0:00
EZ	0:00	0	0:00
FA	0:00	0	0:00
FB	21:09	94	0:26
FC	10:40	64	0:18
FD	0:00	0	0:00
FE	0:00	0	0:00
FF	8:13	39	0:20
FG	23:26	73	0:31

To be continued on next page...

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
FH	90:13	159	0:46
FI	24:41	83	0:26
FJ	44:42	152	0:27
FK	33:26	67	0:58
FL	32:11	72	0:50
FM	29:23	70	0:52
FN	18:25	66	0:22
FO	27:09	98	0:24

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]
1	T1: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (416)	4:41
2	T2: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (417)	22:54
3	T3: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (418)	1:54
4	T4: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (419)	63:53
5	T5: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (420)	47:47
6	T6: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (421)	21:02
7	T7: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (422)	7:00
8	T8: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (423)	6:52
9	T9: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (424)	86:33
10	T10: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (425)	231:05
11	T11: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (426)	0:00
12	T12: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (427)	94:13
13	T13: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (428)	0:00
14	T14: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (429)	21:53
15	T15: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (430)	4:12
16	T16: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (431)	53:33
17	T17: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (432)	27:36
18	T18: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (433)	0:00
19	T19: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (434)	0:00
20	T20: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (435)	6:40
21	T21: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (436)	10:17
22	T22: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (437)	0:00
23	T23: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (438)	196:42
24	T24: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (439)	0:00
25	T25: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (440)	145:36
26	T26: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (441)	0:00
27	T27: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (442)	0:00
28	T28: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (443)	0:00
29	T29: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (444)	29:37
30	T30: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (445)	0:00
31	T31: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (446)	0:00
32	T32: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (447)	0:00
33	T33: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (448)	0:00
34	T34: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (449)	0:00
35	T35: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (450)	0:00
36	T36: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (451)	0:00
37	T37: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (452)	0:00
38	T38: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (453)	0:00
39	T39: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (454)	0:00
40	T40: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (455)	0:00
41	T41: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (456)	0:00
42	T42: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (457)	0:00
43	T43: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (458)	0:00
44	T44: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (459)	0:00
45	T45: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (460)	0:00
46	T46: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (461)	0:00
47	T47: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (462)	0:00
48	T48: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (463)	0:00
49	T49: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (464)	0:00
50	T50: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (465)	0:00
51	T51: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (466)	34:13

To be continued on next page...

SHADOW - Main Result

Calculation: SHAPEFILE EA SHADOW FLICKER - worst case shadow report for EA

...continued from previous page

No.	Name	Worst case [h/year]
52	T52: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (467)	22:52
53	T53: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (468)	10:40
54	T54: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (469)	8:13
55	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (1)	0:00
56	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (2)	0:00
57	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (3)	0:00
58	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (4)	0:00
59	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (5)	0:00
60	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (6)	0:00
61	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (7)	0:00
62	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (8)	0:00
63	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (9)	0:00
64	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (10)	40:44
65	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (11)	0:00
66	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (12)	0:00
67	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (13)	0:00
68	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (14)	0:00
69	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (15)	0:00
70	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (16)	0:00
71	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (17)	0:00
72	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (18)	0:00
73	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (19)	0:00
74	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (20)	0:00
75	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (21)	0:00
76	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (22)	0:00
77	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (23)	0:00
78	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (24)	0:00

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

Assumptions for shadow calculations

Maximum distance for influence

Calculate only when more than 20 % of sun is covered by the blade

Please look in WTG table

Minimum sun height over horizon for influence

3 °

Day step for calculation

1 days

Time step for calculation

1 minutes

Sunshine probability S (Average daily sunshine hours) [CHARLOTTETOWN]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3.37	4.18	4.42	5.04	6.34	7.54	7.95	7.19	5.76	3.98	2.63	2.31

No operational time reduction. It is assumed the WTGs are always running with worst case wind direction.

Flicker curtailment according to specified plan

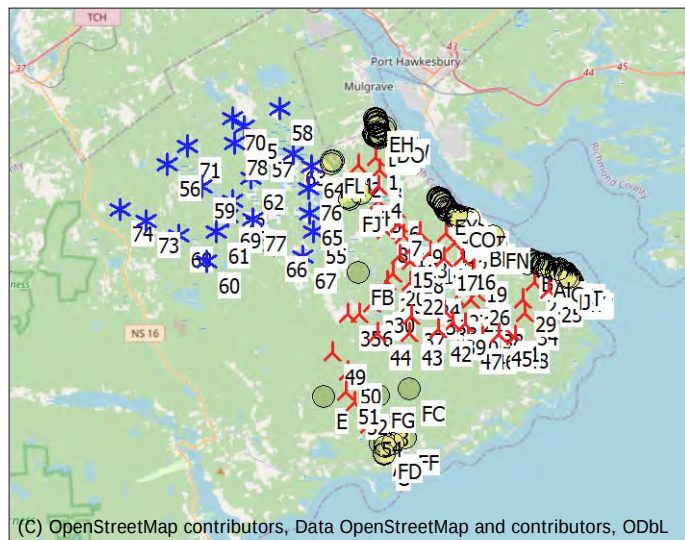
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:

Height contours used: Elevation Grid Data Object: Everwind_WF1_EMDGrid_2.wpg (6)

Receptor grid resolution: 1.0 m

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



Scale 1:400,000
 * New WTG
 * Shadow receptor
 * Existing WTG

WTGs

	Easting	Northing	Z	Row data/Description	WTG type			Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.	Type-generator				Calculation distance [m]	RPM
			[m]									[RPM]
1	626,011.47	5,047,867.17	135.9	T1: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
2	625,155.46	5,047,399.23	150.8	T2: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
3	626,271.31	5,047,175.54	151.4	T3: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
4	626,198.76	5,046,320.50	165.1	T4: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
5	626,250.94	5,045,552.45	175.5	T5: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
6	627,192.41	5,045,103.59	179.1	T6: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
7	627,332.04	5,044,342.87	174.3	T7: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
8	626,569.49	5,044,008.44	174.0	T8: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
9	628,450.74	5,043,919.96	162.5	T9: Goldwind GWH182 8000 183.4 !O! hub: 12...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
10	629,801.48	5,043,902.37	122.5	T10: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
11	627,541.69	5,043,750.30	163.2	T11: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
12	630,304.06	5,043,393.67	120.0	T12: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
13	628,178.79	5,043,190.91	159.1	T13: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
14	629,005.54	5,042,912.23	149.1	T14: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
15	627,436.55	5,042,697.86	150.3	T15: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
16	630,709.88	5,042,672.74	109.5	T16: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
17	629,745.46	5,042,585.95	129.3	T17: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
18	627,992.60	5,042,362.42	146.2	T18: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
19	631,379.53	5,042,023.47	98.3	T19: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
20	627,055.70	5,041,715.41	157.7	T20: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
21	626,728.73	5,041,269.78	155.0	T21: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
22	627,970.15	5,041,280.54	147.6	T22: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
23	634,596.13	5,041,414.80	60.4	T23: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
24	628,826.14	5,041,073.56	137.7	T24: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
25	635,323.57	5,041,020.32	60.5	T25: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
26	631,538.69	5,040,805.32	114.7	T26: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
27	630,473.01	5,040,529.65	128.9	T27: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
28	631,241.14	5,040,422.30	109.6	T28: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
29	633,974.16	5,040,461.18	94.3	T29: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
30	626,522.83	5,040,243.12	133.1	T30: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
31	629,268.98	5,040,212.41	144.3	T31: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
32	625,972.19	5,040,070.88	136.3	T32: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
33	629,777.78	5,039,871.70	130.8	T33: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
34	634,097.04	5,039,794.70	98.3	T34: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
35	624,681.32	5,039,548.30	138.3	T35: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
36	625,320.45	5,039,519.91	149.0	T36: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

	Easting	Northing	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.					Calculation distance [m]	RPM
			[m]									[RPM]
37	628,084.13	5,039,486.80	131.6	T37: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
38	632,248.10	5,039,516.49	95.3	T38: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
39	630,293.84	5,039,146.63	121.3	T39: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
40	630,943.33	5,039,113.46	115.2	T40: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
41	633,152.51	5,038,925.43	86.1	T41: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
42	629,539.96	5,038,822.04	113.0	T42: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
43	627,975.66	5,038,596.56	124.1	T43: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
44	626,345.12	5,038,550.19	120.8	T44: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
45	632,703.38	5,038,612.49	82.2	T45: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
46	631,851.46	5,038,453.38	97.3	T46: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
47	631,126.68	5,038,419.30	101.9	T47: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
48	633,626.00	5,038,526.76	75.3	T48: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
49	623,923.03	5,037,457.19	102.7	T49: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
50	624,732.28	5,036,471.18	91.0	T50: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
51	624,677.75	5,035,397.16	105.1	T51: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
52	625,139.73	5,034,859.53	92.0	T52: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
53	626,324.82	5,034,263.73	72.8	T53: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
54	625,948.76	5,033,746.07	55.6	T54: Goldwind GWH182 8000 183.4 !O! hub: 1...No		Goldwind	GWH182-8,000	8,000	183.4	120.0	2,500	-
55	622,768.22	5,043,892.69	162.7	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
56	615,028.22	5,047,260.69	155.4	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
57	619,844.22	5,048,347.69	172.8	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
58	620,897.22	5,050,284.69	170.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
59	616,839.22	5,046,105.69	181.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
60	617,180.22	5,042,189.70	162.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
61	617,664.22	5,043,801.69	178.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
62	619,430.22	5,046,659.69	181.7	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
63	621,650.22	5,047,994.69	167.9	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
64	622,605.22	5,047,280.69	165.8	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
65	622,550.22	5,044,814.69	165.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
66	620,700.22	5,043,074.69	164.9	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
67	622,300.22	5,042,545.69	152.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
68	615,685.22	5,043,509.70	174.0	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
69	618,273.22	5,044,586.69	184.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
70	618,361.22	5,049,775.69	170.8	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
71	616,057.22	5,048,218.69	160.3	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
72	618,491.22	5,045,409.69	187.1	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
73	613,929.22	5,044,259.70	162.6	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
74	612,550.22	5,044,794.70	159.8	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
75	619,016.22	5,049,288.69	174.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
76	622,476.22	5,046,110.69	155.6	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
77	619,585.22	5,044,466.69	180.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7
78	618,499.22	5,048,443.69	176.2	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 ...Yes		NORDEX	N163/7.X-7,000	7,000	163.0	118.0	1,788	10.7

Shadow receptor-Input

No.	Easting	Northing	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
A	626,617.83	5,032,705.89	33.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B	627,228.13	5,032,747.29	29.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C	626,761.53	5,032,137.59	33.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D	626,784.33	5,032,163.89	33.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
E	623,544.83	5,035,105.69	96.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F	635,889.53	5,042,081.79	19.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G	635,825.83	5,042,118.59	18.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H	635,847.13	5,042,149.39	18.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I	635,156.13	5,042,155.09	20.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J	636,456.04	5,041,689.18	50.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K	636,479.83	5,041,689.69	50.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L	635,571.03	5,042,163.89	4.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M	635,383.83	5,042,170.39	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N	635,393.83	5,042,172.59	10.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O	635,492.53	5,042,185.39	4.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P	636,268.23	5,041,718.29	53.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	[m]	[°]		[m]
Q	634,499.93	5,042,483.89	16.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R	634,510.73	5,042,491.09	15.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S	635,171.03	5,042,210.39	15.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
T	634,978.23	5,042,203.14	13.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U	636,063.97	5,041,756.94	50.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
V	634,177.41	5,042,324.50	40.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W	635,002.43	5,042,351.29	6.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X	635,023.33	5,042,357.69	6.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y	634,799.23	5,042,358.49	3.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z	634,765.23	5,042,362.79	5.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA	634,923.03	5,042,369.79	1.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AB	636,249.54	5,041,785.35	45.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AC	636,259.83	5,041,802.69	45.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AD	634,932.93	5,042,272.99	7.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AE	634,915.63	5,042,288.59	6.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AF	634,931.53	5,042,290.89	6.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AG	636,599.93	5,041,413.79	59.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AH	636,583.03	5,041,418.69	60.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AI	634,705.93	5,042,377.69	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AJ	634,783.83	5,042,382.19	5.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AK	634,721.51	5,042,388.36	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AL	634,645.53	5,042,398.59	13.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AM	634,734.43	5,042,402.29	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AN	636,460.83	5,041,460.05	60.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AO	636,114.23	5,041,883.99	36.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AP	635,978.73	5,041,889.09	33.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AQ	636,476.94	5,041,490.76	60.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AR	636,501.43	5,041,502.19	59.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AS	635,994.03	5,041,895.79	33.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AT	636,216.93	5,041,901.89	37.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AU	636,206.83	5,041,909.69	36.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AV	635,977.93	5,041,913.99	30.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AW	636,471.23	5,041,513.59	60.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AX	636,588.03	5,041,525.79	56.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AY	636,399.43	5,041,585.13	61.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AZ	636,555.73	5,041,539.19	57.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BA	635,961.53	5,041,924.19	29.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BB	636,436.33	5,041,558.99	61.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BC	636,422.33	5,041,559.69	61.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BD	636,247.64	5,041,969.46	27.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BE	635,680.33	5,041,983.89	21.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BF	635,693.13	5,041,997.09	21.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BG	636,346.70	5,041,650.66	59.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BH	636,499.13	5,041,628.19	53.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BI	631,520.83	5,043,807.39	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BJ	630,617.93	5,044,567.79	3.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BK	630,605.43	5,044,574.29	3.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BL	630,805.13	5,044,595.89	4.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BM	630,789.83	5,044,610.79	5.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BN	630,762.73	5,044,612.29	5.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BO	631,056.33	5,044,636.69	5.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BP	631,452.33	5,043,910.79	8.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BQ	630,357.62	5,044,704.71	8.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BR	631,078.73	5,044,349.09	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BS	630,433.93	5,044,668.99	4.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BT	631,008.16	5,044,688.76	7.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BU	631,087.93	5,044,389.29	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BV	630,397.58	5,044,721.88	7.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BW	630,359.30	5,044,722.79	11.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BX	631,523.53	5,043,987.39	4.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BY	634,305.68	5,042,560.70	20.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BZ	634,228.43	5,042,594.19	19.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CA	634,248.53	5,042,610.19	17.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CB	634,208.53	5,042,610.49	18.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CC	634,219.33	5,042,620.69	17.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
CD	630,969.73	5,044,509.09	4.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CE	630,934.63	5,044,513.49	4.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CF	631,616.17	5,043,721.31	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CG	631,636.13	5,043,741.49	3.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CH	631,550.83	5,043,755.89	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CI	631,559.43	5,043,779.09	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CJ	631,503.33	5,043,784.99	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CK	630,418.23	5,044,853.79	6.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CL	629,752.63	5,045,201.39	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CM	629,780.63	5,045,202.89	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CN	629,573.43	5,045,570.49	10.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CO	630,388.63	5,044,866.18	6.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CP	629,548.03	5,045,606.59	11.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CQ	629,765.43	5,045,268.69	4.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CR	629,533.33	5,045,648.39	12.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CS	629,735.23	5,045,383.09	2.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CT	624,564.03	5,045,697.49	141.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CU	629,467.33	5,045,699.09	12.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CV	629,530.23	5,045,707.29	6.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CW	629,994.68	5,045,016.51	6.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CX	629,664.73	5,045,409.79	4.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CY	629,440.73	5,045,729.59	8.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CZ	629,398.73	5,045,732.89	14.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DA	630,626.33	5,044,741.69	6.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DB	630,357.02	5,044,748.83	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DC	630,814.73	5,044,750.99	5.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DD	629,373.63	5,045,796.39	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DE	630,455.73	5,044,770.49	5.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DF	630,479.63	5,044,776.99	8.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DG	629,859.63	5,045,103.29	4.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DH	629,928.53	5,045,104.69	3.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DI	630,448.13	5,044,806.39	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DJ	629,885.53	5,045,125.99	3.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DK	630,478.03	5,044,813.59	7.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DL	630,422.63	5,044,829.89	7.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DM	630,377.63	5,044,830.09	6.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DN	629,767.63	5,045,189.39	9.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DO	626,426.83	5,049,243.59	6.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DP	625,975.93	5,048,970.09	2.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DQ	625,960.63	5,048,971.69	3.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DR	626,262.03	5,049,015.49	9.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DS	626,025.83	5,049,028.09	1.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DT	626,019.63	5,049,036.89	1.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DU	625,985.93	5,049,074.29	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DV	626,296.83	5,049,082.09	6.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DW	626,467.23	5,049,380.29	6.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DX	625,914.53	5,049,094.99	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DY	626,269.43	5,049,101.59	5.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DZ	625,942.33	5,049,107.49	10.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EA	626,159.13	5,048,852.49	25.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EB	626,236.83	5,048,861.49	23.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EC	626,206.83	5,048,864.39	23.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ED	626,049.23	5,048,897.49	12.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EE	626,066.03	5,048,911.79	11.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EF	626,215.33	5,048,947.59	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EG	625,985.23	5,048,950.29	2.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EH	626,049.63	5,049,836.59	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EI	625,998.53	5,049,842.59	13.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EJ	625,917.73	5,049,844.69	19.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EK	626,062.23	5,049,858.79	7.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EL	626,040.33	5,049,638.39	14.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EM	626,086.33	5,049,642.19	12.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EN	626,034.03	5,049,658.29	14.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EO	626,077.63	5,049,678.09	11.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EP	626,026.63	5,049,679.09	16.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
EQ	626,084.53	5,049,417.19	4.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ER	626,072.13	5,049,702.99	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ES	626,109.83	5,049,456.69	1.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ET	625,973.63	5,049,796.49	16.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EU	626,116.03	5,049,497.79	1.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EV	625,980.13	5,049,814.29	16.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EW	626,017.03	5,049,814.99	13.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EX	629,533.79	5,045,539.08	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EY	629,561.04	5,045,508.90	14.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EZ	626,208.08	5,049,016.06	2.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FA	626,021.23	5,049,586.82	14.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FB	625,235.30	5,041,730.71	146.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FC	628,074.66	5,035,621.55	51.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FD	626,803.90	5,032,585.09	34.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FE	626,823.36	5,032,784.31	44.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FF	627,868.70	5,033,035.10	38.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FG	626,463.80	5,035,207.60	67.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FH	625,308.51	5,045,894.76	162.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FI	624,614.70	5,045,674.30	140.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FJ	624,693.97	5,045,583.30	142.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FK	623,669.87	5,047,422.49	144.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FL	623,661.18	5,047,578.14	144.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FM	623,804.74	5,047,577.31	154.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FN	632,350.92	5,043,812.23	17.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FO	632,221.59	5,043,774.78	18.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Calculation Results

Shadow receptor

No.	Shadow, worst case			Shadow, expected values			
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Avoided hours per year [h/year]	Avoided days per year [days/year]	Shadow hours per year [h/year]	Avoided hours per year [h/year]
A	0:00	0	0:00			0:00	
AA	0:00	0	0:00			0:00	
AB	51:36	120	0:38			16:33	
AC	50:33	117	0:37			16:08	
AD	0:00	0	0:00			0:00	
AE	0:00	0	0:00			0:00	
AF	0:00	0	0:00			0:00	
AG	18:16	65	0:31			6:59	
AH	18:47	66	0:32			7:11	
AI	0:00	0	0:00			0:00	
AJ	0:00	0	0:00			0:00	
AK	0:00	0	0:00			0:00	
AL	0:00	0	0:00			0:00	
AM	0:00	0	0:00			0:00	
AN	23:27	74	0:35			9:04	
AO	41:07	93	0:38			12:57	
AP	35:45	114	0:30			11:37	
AQ	22:44	73	0:34			8:50	
AR	21:50	72	0:33			8:29	
AS	35:54	115	0:30			11:39	
AT	43:50	98	0:37			13:45	
AU	42:04	96	0:37			13:12	
AV	31:44	110	0:29			10:29	
AW	22:55	73	0:34			8:53	
AX	18:53	67	0:31			7:20	
AY	26:23	79	0:36			9:54	
AZ	19:52	69	0:32			7:44	
B	0:00	0	0:00			0:00	
BA	27:48	103	0:29			9:24	
BB	24:32	76	0:35			9:23	
BC	25:06	78	0:35			9:35	
BD	37:42	92	0:35			11:53	

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Shadow, worst case			Shadow, expected values			
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Avoided hours per year [h/year]	Avoided days per year [days/year]	Shadow hours per year [h/year]	Avoided hours per year [h/year]
BE	38:18	103	0:35			13:00	
BF	37:29	100	0:35			12:42	
BG	30:37	89	0:37			10:54	
BH	22:53	74	0:33			8:38	
BI	45:28	142	0:33			16:29	
BJ	50:52	132	0:41			17:06	
BK	50:50	130	0:41			17:03	
BL	43:26	128	0:35			14:42	
BM	43:20	126	0:36			14:34	
BN	44:15	127	0:36			14:50	
BO	16:17	42	0:30			6:02	
BP	42:14	124	0:33			15:42	
BQ	60:21	107	0:46			18:51	
BR	52:05	109	0:37			16:49	
BS	66:38	120	0:44			21:04	
BT	17:41	45	0:30			6:17	
BU	46:13	101	0:36			14:54	
BV	58:37	106	0:44			18:19	
BW	56:01	101	0:46			17:28	
BX	38:42	120	0:31			14:22	
BY	0:00	0	0:00			0:00	
BZ	0:00	0	0:00			0:00	
C	0:00	0	0:00			0:00	
CA	0:00	0	0:00			0:00	
CB	0:00	0	0:00			0:00	
CC	0:00	0	0:00			0:00	
CD	19:19	54	0:32			7:14	
CE	19:13	45	0:33			7:19	
CF	63:04	165	0:33			22:09	
CG	60:24	161	0:33			21:07	
CH	55:16	155	0:32			19:37	
CI	51:57	150	0:32			18:27	
CJ	48:18	145	0:33			17:30	
CK	34:42	80	0:37			10:48	
CL	24:34	70	0:25			7:26	
CM	24:16	72	0:25			7:23	
CN	5:01	22	0:18			2:01	
CO	30:04	76	0:35			9:23	
CP	5:01	22	0:18			1:58	
CQ	22:18	62	0:24			6:40	
CR	5:07	22	0:18			1:58	
CS	13:43	44	0:23			3:56	
CT*	19:32	67	0:25	2:19	8	8:31	1:12
CU	5:21	22	0:18			1:59	
CV	5:02	22	0:18			1:52	
CW	11:36	40	0:24			3:51	
CX	7:02	30	0:17			1:56	
CY	5:30	23	0:18			2:01	
CZ	12:41	54	0:18			4:23	
D	0:00	0	0:00			0:00	
DA	52:17	118	0:38			16:41	
DB	50:43	98	0:45			15:48	
DC	26:18	62	0:33			8:37	
DD	5:45	24	0:19			2:07	
DE	52:23	103	0:41			16:22	
DF	51:30	102	0:41			16:05	
DG	15:29	50	0:24			5:00	
DH	13:39	46	0:24			4:25	
DI	45:10	94	0:41			14:04	
DJ	15:07	50	0:24			4:52	
DK	45:41	94	0:40			14:14	
DL	39:29	87	0:39			12:17	
DM	36:42	84	0:39			11:25	
DN	24:38	72	0:24			7:30	

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Project:

Setapuktuk Wind Project

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2025-08-19 4:35 PM/4.0.424

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Shadow, worst case			Shadow, expected values			
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Avoided hours per year [h/year]	Avoided days per year [days/year]	Shadow hours per year [h/year]	Avoided hours per year [h/year]
DO	0:00	0	0:00			0:00	
DP	0:00	0	0:00			0:00	
DQ	0:00	0	0:00			0:00	
DR	0:00	0	0:00			0:00	
DS	0:00	0	0:00			0:00	
DT	0:00	0	0:00			0:00	
DU	0:00	0	0:00			0:00	
DV	0:00	0	0:00			0:00	
DW	0:00	0	0:00			0:00	
DX	0:00	0	0:00			0:00	
DY	0:00	0	0:00			0:00	
DZ	0:00	0	0:00			0:00	
E	33:41	90	0:37			14:43	
EA	0:00	0	0:00			0:00	
EB	0:00	0	0:00			0:00	
EC	0:00	0	0:00			0:00	
ED	0:00	0	0:00			0:00	
EE	0:00	0	0:00			0:00	
EF	0:00	0	0:00			0:00	
EG	0:00	0	0:00			0:00	
EH	0:00	0	0:00			0:00	
EI	0:00	0	0:00			0:00	
EJ	0:00	0	0:00			0:00	
EK	0:00	0	0:00			0:00	
EL	0:00	0	0:00			0:00	
EM	0:00	0	0:00			0:00	
EN	0:00	0	0:00			0:00	
EO	0:00	0	0:00			0:00	
EP	0:00	0	0:00			0:00	
EQ	0:00	0	0:00			0:00	
ER	0:00	0	0:00			0:00	
ES	0:00	0	0:00			0:00	
ET	0:00	0	0:00			0:00	
EU	0:00	0	0:00			0:00	
EV	0:00	0	0:00			0:00	
EW	0:00	0	0:00			0:00	
EX	0:00	0	0:00			0:00	
EY	0:00	0	0:00			0:00	
EZ	0:00	0	0:00			0:00	
F	16:17	43	0:30			6:00	
FA	0:00	0	0:00			0:00	
FB	21:21	94	0:27			8:43	
FC	10:49	64	0:19			3:22	
FD	0:00	0	0:00			0:00	
FE	0:00	0	0:00			0:00	
FF	8:06	38	0:20			3:48	
FG	23:38	73	0:31			9:23	
FH*	69:20	128	0:46	20:58	31	29:20	10:53
FI*	20:10	69	0:26	4:37	14	8:43	2:23
FJ*	34:11	121	0:27	10:50	31	13:55	5:37
FK	33:23	67	0:58			13:53	
FL	32:13	72	0:50			12:33	
FM	29:16	69	0:52			11:27	
FN	18:31	66	0:22			6:29	
FO	27:07	97	0:24			9:51	
G	30:42	93	0:31			10:05	
H	18:02	48	0:30			6:19	
I	42:41	66	0:48			12:43	
J	25:36	80	0:33			9:13	
K	24:19	78	0:33			8:48	
L	32:10	70	0:36			10:30	
M	52:54	88	0:41			16:14	
N	52:36	88	0:41			16:09	
O	46:26	96	0:38			14:32	

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Shadow, worst case			Shadow, expected values			
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Avoided hours per year [h/year]	Avoided days per year [days/year]	Shadow hours per year [h/year]	Avoided hours per year [h/year]
P	42:47	124	0:38			14:21	
Q	0:00	0	0:00			0:00	
R	0:00	0	0:00			0:00	
S	31:26	56	0:42			9:13	
T	6:00	22	0:21			1:35	
U	63:41	127	0:44			20:10	
V	0:00	0	0:00			0:00	
W	0:00	0	0:00			0:00	
X	0:00	0	0:00			0:00	
Y	0:00	0	0:00			0:00	
Z	0:00	0	0:00			0:00	

* Receptors where shadow flicker is reduced by curtailment

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Stopped due to flicker curtailment [h/year]	Expected [h/year]
1	T1: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (416)	4:40		1:59
2	T2: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (417)	22:53		9:18
3	T3: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (418)	1:54		0:41
4	T4: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (419)	42:49	21:03	19:49
5	T5: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (420)	48:03		18:47
6	T6: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (421)	21:04		8:00
7	T7: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (422)	6:59		2:18
8	T8: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (423)	6:52		1:54
9	T9: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (424)	86:59		28:33
10	T10: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (425)	231:27		79:34
11	T11: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (426)	0:00		0:00
12	T12: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (427)	92:19		32:19
13	T13: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (428)	0:00		0:00
14	T14: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (429)	21:38		6:18
15	T15: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (430)	4:15		2:00
16	T16: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (431)	54:00		16:26
17	T17: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (432)	27:51		9:09
18	T18: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (433)	0:00		0:00
19	T19: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (434)	0:00		0:00
20	T20: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (435)	6:42		2:47
21	T21: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (436)	10:24		3:56
22	T22: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (437)	0:00		0:00
23	T23: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (438)	194:49		64:43
24	T24: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (439)	0:00		0:00
25	T25: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (440)	144:21		47:08
26	T26: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (441)	0:00		0:00
27	T27: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (442)	0:00		0:00
28	T28: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (443)	0:00		0:00
29	T29: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (444)	29:43		9:09
30	T30: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (445)	0:00		0:00
31	T31: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (446)	0:00		0:00
32	T32: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (447)	0:00		0:00
33	T33: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (448)	0:00		0:00
34	T34: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (449)	0:00		0:00
35	T35: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (450)	0:00		0:00
36	T36: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (451)	0:00		0:00
37	T37: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (452)	0:00		0:00
38	T38: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (453)	0:00		0:00
39	T39: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (454)	0:00		0:00
40	T40: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (455)	0:00		0:00
41	T41: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (456)	0:00		0:00
42	T42: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (457)	0:00		0:00
43	T43: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (458)	0:00		0:00
44	T44: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (459)	0:00		0:00
45	T45: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (460)	0:00		0:00
46	T46: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (461)	0:00		0:00
47	T47: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (462)	0:00		0:00

To be continued on next page...

SHADOW - Main Result

Calculation: 250815 - WF1 - Real Case Shadow Flicker - T4 Curtailment - Goose Harbour Lake Wind Farm included

...continued from previous page

No.	Name	Worst case [h/year]	Stopped due to flicker curtailment [h/year]	Expected [h/year]
48	T48: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (463)	0:00		0:00
49	T49: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (464)	0:00		0:00
50	T50: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (465)	0:00		0:00
51	T51: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (466)	34:27		15:24
52	T52: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (467)	22:52		8:41
53	T53: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (468)	10:49		3:22
54	T54: Goldwind GWH182 8000 183.4 !O! hub: 120.0 m (TOT: 211.7 m) (469)	8:06		3:48
55	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (1)	0:00		0:00
56	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (2)	0:00		0:00
57	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (3)	0:00		0:00
58	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (4)	0:00		0:00
59	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (5)	0:00		0:00
60	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (6)	0:00		0:00
61	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (7)	0:00		0:00
62	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (8)	0:00		0:00
63	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (9)	0:00		0:00
64	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (10)	40:41		16:05
65	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (11)	0:00		0:00
66	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (12)	0:00		0:00
67	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (13)	0:00		0:00
68	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (14)	0:00		0:00
69	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (15)	0:00		0:00
70	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (16)	0:00		0:00
71	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (17)	0:00		0:00
72	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (18)	0:00		0:00
73	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (19)	0:00		0:00
74	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (20)	0:00		0:00
75	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (21)	0:00		0:00
76	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (22)	0:00		0:00
77	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (23)	0:00		0:00
78	NORDEX N163/7.X 7000 163.0 !O! hub: 118.0 m (TOT: 199.5 m) (24)	0:00		0:00

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

APPENDIX E

GROUNDWATER WELLS

Well Number	Address	Community	County	Year Installed	Well Depth (m)	Casing Depth (m)	Bedrock Depth (m)	Static (m)	Yield (Lpm)	Elevation (m)	Well Type	Water Use	Easting	Northing
000098		Macpherson Lake	Guysborough	2000	3.65	3.65		2.13	454	67	Dug	Domestic	623500	5033500
001720	Melford	Middle Melford	Guysborough	2000	36.54	6.09	0.91		13.62	6	Drilled	Domestic	630500	5044500
001911		Steep Creek	Guysborough	2000	24.36	9.74	7.92	9.14	27.24	73	Drilled	Domestic	628500	5046500
010487		Middle Melford	Guysborough	2001	42.63	24.36	1.83		11.35	6	Drilled	Domestic	630500	5044500
011123		Sand Point	Guysborough	2001	29.54	12.18	3.04	4.57	27.24	33	Drilled	Domestic	636500	5040500
011451		Macpherson Lake	Guysborough	2001	36.54	20.4	18.88		45.4	67	Drilled	Domestic	623500	5033500
021237		Sand Point	Guysborough	2002	52.37	12.18	5.48	6.09	9.08	60	Drilled	Domestic	636500	5041500
030347		Hadleyville	Guysborough	2003	85.26	30.45	28.93		0	12	Drilled	Domestic	635500	5037500
031900		Steep Creek	Guysborough	2003	30.45	6.09	3.65	2.13	18.16	28	Drilled	Domestic	629500	5045500
042250	Highway #344	Port Shoreham	Guysborough	2004	31.97	18.27	8.53		45.4	37	Drilled	Domestic	625323	5031592
050081	5094 Highway #334	Sand Point	Guysborough	2005	85.26	35.32	29.54	3.04	4.54	23	Drilled	Domestic	636906	5040108
050085	5094 Highway #344	Sand Point	Guysborough	2005	60.9	30.45	28.32	6.09	9.08	22	Drilled	Domestic	636908	5040108
051723	6773 Highway #344	Steep Creek	Guysborough	2005	42.63	18.27	11.88	6.09	18.16	10	Drilled	Domestic	630245	5044609
071260	4192 Highway #344	Hadleyville	Guysborough	2007	62.42	21.92	21.32	6.09	11.35	18	Drilled	Domestic	635003	5036278
091281	Highway #344	Steep Creek	Guysborough	2009	60.9	14.31	10.66	7.61	54.48	38	Drilled	Domestic	629471	5045311
091759	7015 Highway #344	Steep Creek	Guysborough	2009	42.63	18.27	14.31		68.1	40	Drilled	Domestic	629375	5045534
091866	Highway #344 (Mulgrave Road)	Steep Creek	Guysborough	2009	60.9	14.31	10.66	9.44	54.48	38	Drilled	Domestic	629471	5045311
610121		Mulgrave	Guysborough	1961	21.32	6.09	4.87	0.91	18.16	16	Drilled	Domestic	628667	5046886
620112		Middle Melford	Guysborough	1962	15.22	7.61		3.65	22.7	12	Drilled	Domestic	629602	5045477
630053		Port Hawkesbury	Inverness	1963	30.45	12.18	12.18	9.14	4.54	8	Drilled	Domestic	629672	5045401
650120	RR#1 Mulgrave	Sand Point	Guysborough	1965	24.36	6.7	6.09	3.96	22.7	27	Drilled		635151	5042112
650126	RR#1	Mulgrave	Guysborough	1965	24.36	21.62	14.62	9.14	22.7	27	Drilled	Domestic	634392	5042492
650136	RR#1 Mulgrave	Steep Creek	Guysborough	1965	21.32	3.96		1.22	22.7	28	Drilled		629500	5045500
670616		Point Tupper	Richmond	1967	60.9	12.79	9.14	6.09	227	7	Drilled	Industrial	628892	5049452
680200		Sand Point	Guysborough	1968	59.68	29.23	28.62	6.09	4.54	32	Drilled	Domestic	635500	5041500
700107		Point Tupper	Richmond	1970	88.3	14.62	10.66	6.09	4.54	9	Drilled	Industrial	631494	5043838
710087	RR#1	Mulgrave	Guysborough	1971	29.54	10.05	4.57	7.61	13.62	57	Drilled	Industrial	636552	5041534
710148		Steep Creek	Guysborough	1971	54.81	6.7	4.57	4.57	9.08	27	Drilled	Domestic	628235	5047651
720112		Middle Melford	Guysborough	1972	32.58	13.7	10.66	7.92	90.8	15	Drilled	Domestic	633293	5043218
720236		Steep Creek	Guysborough	1972	31.97	6.7	4.57	1.83	158.9	4	Drilled	Domestic	630705	5044631
730199		Middle Melford	Guysborough	1973	52.37	32.58	31.97	1.52	31.78	7	Drilled	Domestic	631464	5043772
730200		Middle Melford	Guysborough	1973	29.23	26.8		2.13	4.54	6	Drilled	Domestic	631534	5043807
730249		Middle Melford	Guysborough	1973	75.21	6.7	3.65	1.83	13.62	12	Drilled	Domestic	632967	5043398
730250		Middle Melford	Guysborough	1973	52.07	6.7	4.87	4.57	13.62	11	Drilled	Domestic	632833	5043497
730278		Middle Melford	Guysborough	1973	59.99	26.8	24.06	-0.03	54.48	6	Drilled	Domestic	631570	5043755
730282		Middle Melford	Guysborough	1973	59.99	13.4	3.04	-0.03	36.32	26	Drilled	Domestic	634073	5042553
730298		Middle Melford	Guysborough	1973	29.54	29.23		3.04	22.7	10	Drilled	Domestic	631386	5043866
730326		Melford	Guysborough	1973	90.44	13.09	10.66	3.04	90.8	11	Drilled		632072	5043718
730348		Sand Point	Guysborough	1973	75.52	6.7	5.48	3.04	18.16	9	Drilled	Domestic	635141	5042290
730353	RR#1	Sand Point	Guysborough	1973	42.63	6.09	3.65	1.52	13.62	12	Drilled	Domestic	634953	5042224
740147		Middle Melford	Guysborough	1974	75.21	19.79	18.27	3.65	10.22	10	Drilled	Industrial	631159	5044352
740219		Middle Melford	Guysborough	1974	71.25	8.83	7.92		90.8	16	Drilled	Domestic	631500	5043500
740227		Steep Creek	Guysborough	1974	44.76	5.48	1.52	4.57	18.16	28	Drilled	Domestic	629500	5045500
750205		Sand Point	Guysborough	1975	29.84	12.18	8.22	4.57	22.7	32	Drilled	Domestic	635500	5041500
750225		Sand Point	Guysborough	1975	57.86	7.61	5.79	6.09	27.24	32	Drilled	Domestic	635500	5041500
750311		Steep Creek	Guysborough	1975	15.22	13.4		3.65	18.16	28	Drilled	Domestic	629500	5045500
842178		Sand Point	Guysborough	1984	56.33	12.48	11.27		81.72	60	Drilled		636500	5041500
861387		Pirate Harbour	Guysborough	1986	4.57	0.76		1.52	18.16	124	Dug	Domestic	626500	5048500
872137		Pirate Harbour	Guysborough	1987	52.37	12.18	9.14	4.87	4.54	89	Drilled	Domestic	625500	5049500
882140		Hadleyville	Guysborough	1988	52.37	13.09	4.26	33.5	13.62	22	Drilled	Domestic	635500	5036500
892601	RR#1 Mulgrave	Mulgrave	Guysborough	1989	4.57	9.14				90	Dug		625500	5048500
902183		Sand Point	Guysborough	1990	37.45	6.09	3.65	1.83	90.8	32	Drilled		635500	5041500
902226		Sand Point	Guysborough	1990	44.76	12.18	8.22		27.24	33	Drilled	Domestic	636500	5040500
931790		Steep Creek	Guysborough	1993	14.62	6.09	0.91	3.04	68.1	28	Drilled	Domestic	629500	5045500
942494	RR#1 Mulgrave	Sand Point	Guysborough	1994	44.76	12.18	7.31	3.65	9.08	33	Drilled	Domestic	636500	5040500
943012	Manassette Lake	Port Shoreham	Guysborough	1994	5.18	0.76		1.52	18.16	22	Dug		626500	5031500
952337	Mulgrave	Pirate Harbour	Guysborough	1995	31.97	24.36	22.84	9.14	45.4	90	Drilled	Domestic	625500	5048500
962261		Sand Point	Guysborough	1996	37.45	30.45	24.36	15.22	68.1	40	Drilled	Domestic	636500	5039500
972713		Sand Point	Guysborough	1997	44.76	6.09	2.44	4.57	36.32	60	Drilled	Domestic	636500	5041500
972721	6 Anthony Lane, Lake Fletcher	Port Shoreham	Guysborough	1997	44.76	18.27	12.18	7.61	31.78	40	Drilled	Domestic	624500	5032500
991167		Sand Point	Guysborough	1999	44.76	7.61		3.65	15.89	2	Drilled	Domestic	635568	5042343
991168		Mulgrave	Guysborough	1999	21.92	10.66	4.87	3.65	158.9	28	Drilled	Domestic	629500	5045500
992399		Steep Creek	Guysborough	1999	47.35	6.09	1.83	1.83	9.08	28	Drilled	Domestic	629500	5045500
Statistics				Minimum	1961	3.65	0.76	0.91	-0.03	0.00	2			
				Maximum	2009	90.44	35.32	31.97	33.50	454.00	124			
				Average	n/a	43.41	13.84	10.54	5.08	43.19	31			

Blank = no data.

Shading indicates wells within 800 m of Assessment Area

APPENDIX F

ACCDC REPORT

Data Report 8793: Guysborough County, NS

Prepared 25 July 2025
by C. Robicheau, Senior Conservation
Data Analyst

CONTENTS OF REPORT

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- 1.2 Data Use Restrictions
- 1.3 Additional Information
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- 2.2 Fauna
- Map 2: Flora and Fauna

3.0 Special Areas

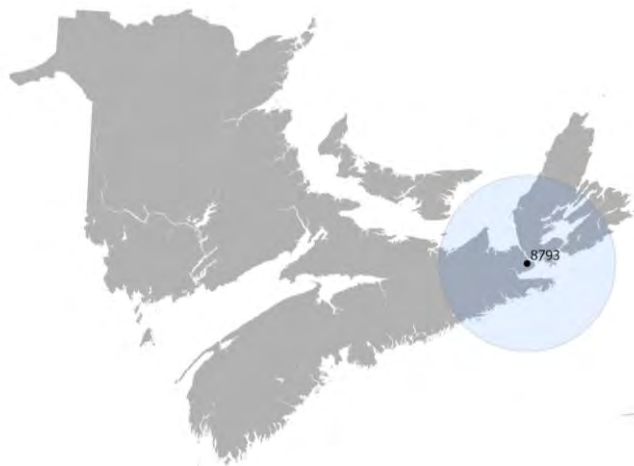
- 3.1 Managed Areas
- 3.2 Significant Areas
- Map 3: Special Areas

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- 4.2 Flora
- 4.3 Location Sensitive Species
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5.0 Rare Species within 100 km

- 5.1 Source Bibliography



Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (AC CDC; www.accdc.com) is a member of the NatureServe network, a collaborative alliance of natural heritage programs and conservation data centres operating across all 50 U.S. states, nine Canadian provinces, three territories, and several countries in Central and South America. Established over five decades ago, the NatureServe network employs a standardized and scientifically rigorous methodology for the collection, analysis, and dissemination of biodiversity data. Since its founding in 1997, the AC CDC has served as the authoritative source of information on species at risk and ecological communities within the jurisdictions of New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland and Labrador. Although AC CDC operates as a non-governmental organization, it receives core funding and support from six federal agencies and four provincial governments and is supplemented by external grants and data processing fees.

In response to formal requests and for a service fee, the AC CDC queries its database and provides customized data reports detailing the known occurrences of rare and endangered flora and fauna within a defined area of interest. These reports are further supplemented by spatial information on protected and conserved areas and sites identified as ecologically significant or sensitive. This service supports evidence-based decision-making in environmental assessments, land-use planning, and natural resource management and are vital to the conservation of biodiversity in Atlantic Canada.

1.1 DATA LIST

Included datasets:

Filename

GuysboroughCNS_8793ob.xls
GuysboroughCNS_8793ob100km.xls
GuysboroughCNS_8793msa.xls
GuysboroughCNS_8793ff_py.xls

Contents

Rare or legally-protected Flora and Fauna in your study area
A list of Rare and legally protected Flora and Fauna within 100 km of your study area
Managed and Biologically Significant Areas in your study area
Rare Freshwater Fish in your study area (DFO database)

1.2 DATA USE RESTRICTIONS

The Atlantic Canada Conservation Data Centre (AC CDC) makes every effort to ensure the accuracy of the data it manages; however, it assumes no responsibility for any errors or omissions in the data provided. By accepting data from the AC CDC, recipients agree to the following terms of use:

- a) Data must be used only by qualified personnel who are aware of landowner sensitivities and the potential risks that disclosure of rare and/or endangered species locations may pose to those species.
- b) Data may be used only by the designated Data User. Any third-party requiring access must submit a separate request to the AC CDC.
- c) Data must be deleted and no longer used 12 months after receipt. Continued use requires submission of a new request for updated data.
- d) All data provided reflects the contents of the AC CDC's database at the time of the request.
- e) Each record includes an estimate of locational uncertainty, which must be considered when assessing the record's relevance to a specific location. Please refer to the accompanying Data Dictionary for further details.
- f) AC CDC data responses are not to be construed as exhaustive inventories of taxa in an area of interest.
- g) The absence of a taxon does not imply that the species is absent from the area of interest.

1.3 ADDITIONAL INFORMATION

The accompanying Data Dictionary provides metadata for the data provided.

Please direct any additional questions about AC CDC data to the following individuals:

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney
Senior Scientist / Executive Director
(506) 364-2658
sean.blaney@accdc.ca

Animals (Fauna)

John Klymko
Zoologist
(506) 364-2660
john.klymko@accdc.ca

Data Management, GIS

Charity Robicheau
Senior Conservation Data Analyst
charity.robicheau@accdc.ca

Billing

Jean Breau
Financial Manager / Executive Assistant
(506) 364-2657
jean.breau@accdc.ca

Questions on the biology of Federal Species at Risk can be directed to AC CDC: (506) 364-2658, with questions on Species at Risk regulations to: Samara Eaton, Canadian Wildlife Service (NB and PE): (506) 364-5060 or Julie McKnight, Canadian Wildlife Service (NS): (902) 426-4196.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in New Brunswick, please contact Hubert Askanas, Energy and Resource Development: (506) 453-5873.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in Nova Scotia, please contact Donna Hurlburt, NS DLF: (902) 679-6886. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NS DLF Regional Biologist:

Western: Emma Vost
(902) 670-8187
Emma.Vost@novascotia.ca

Western: Sarah Spencer
(902) 541-0081
Sarah.Spencer@novascotia.ca

Central: Shavonne Meyer
(902) 893-0816
Shavonne.Meyer@novascotia.ca

Central: Kimberly George
(902) 890-1046
Kimberly.George@novascotia.ca

Eastern: Harrison Moore
(902) 497-4119
Harrison.Moore@novascotia.ca

Eastern: Maureen Cameron-MacMillan
(902) 295-2554
Maureen.Cameron-MacMillan@novascotia.ca

For provincial information about rare taxa and protected areas, or information about game animals, fish habitat etc., in Prince Edward Island, please contact Garry Gregory, PEI Dept. of Communities, Land and Environment: (902) 569-7595.

2.0 RARE AND ENDANGERED SPECIES

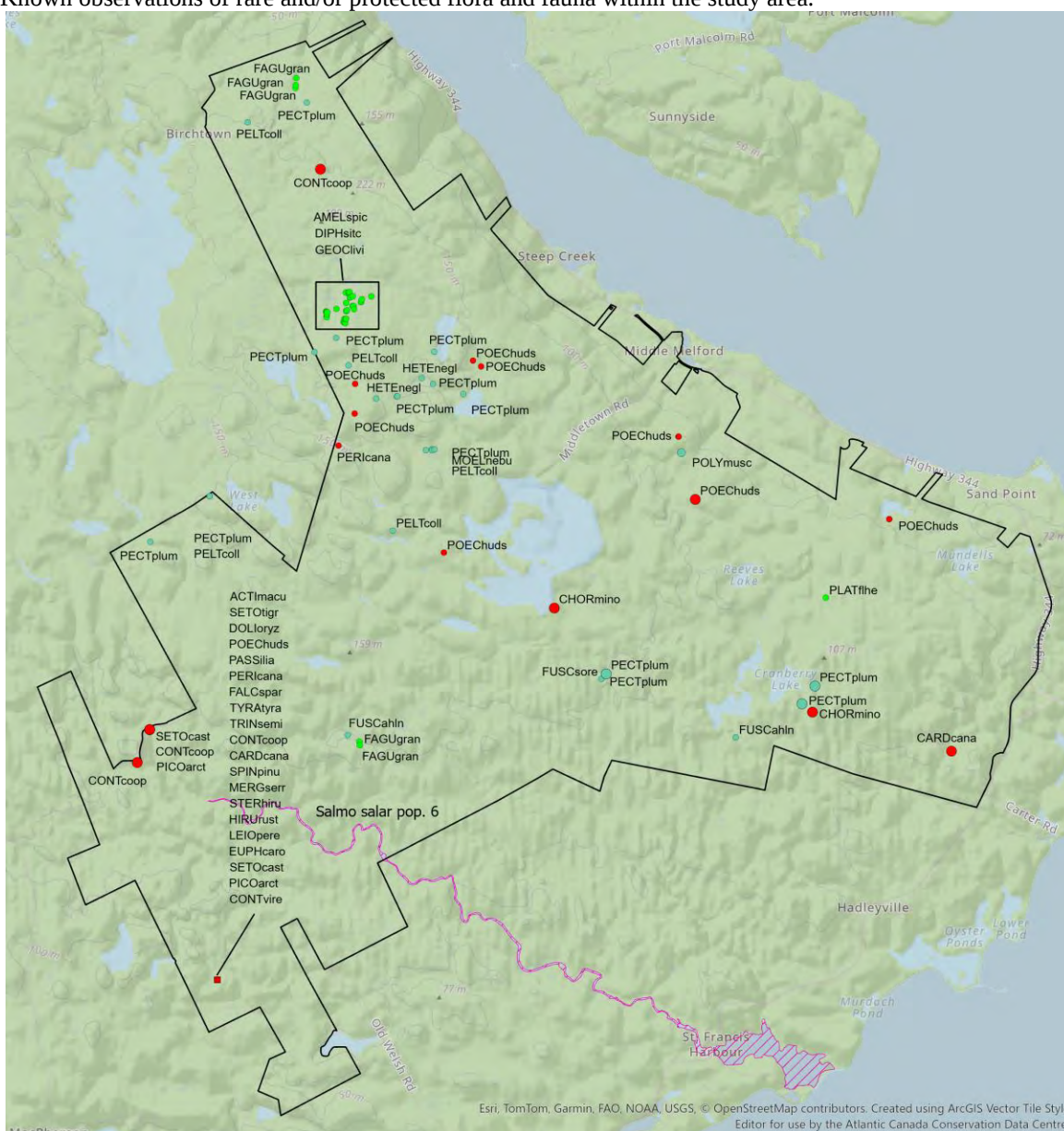
2.1 FLORA

The study area contains 38 records of 5 vascular and 28 records of 7 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 55 records of 21 vertebrate and no records of invertebrate fauna (Map 2 and attached data files - see 1.1 Data List), excluding 'location-sensitive' species. Please see section 4.3 to determine if 'location-sensitive' species occur near your study site.

Map 2: Known observations of rare and/or protected flora and fauna within the study area.



3.0 SPECIAL AREAS

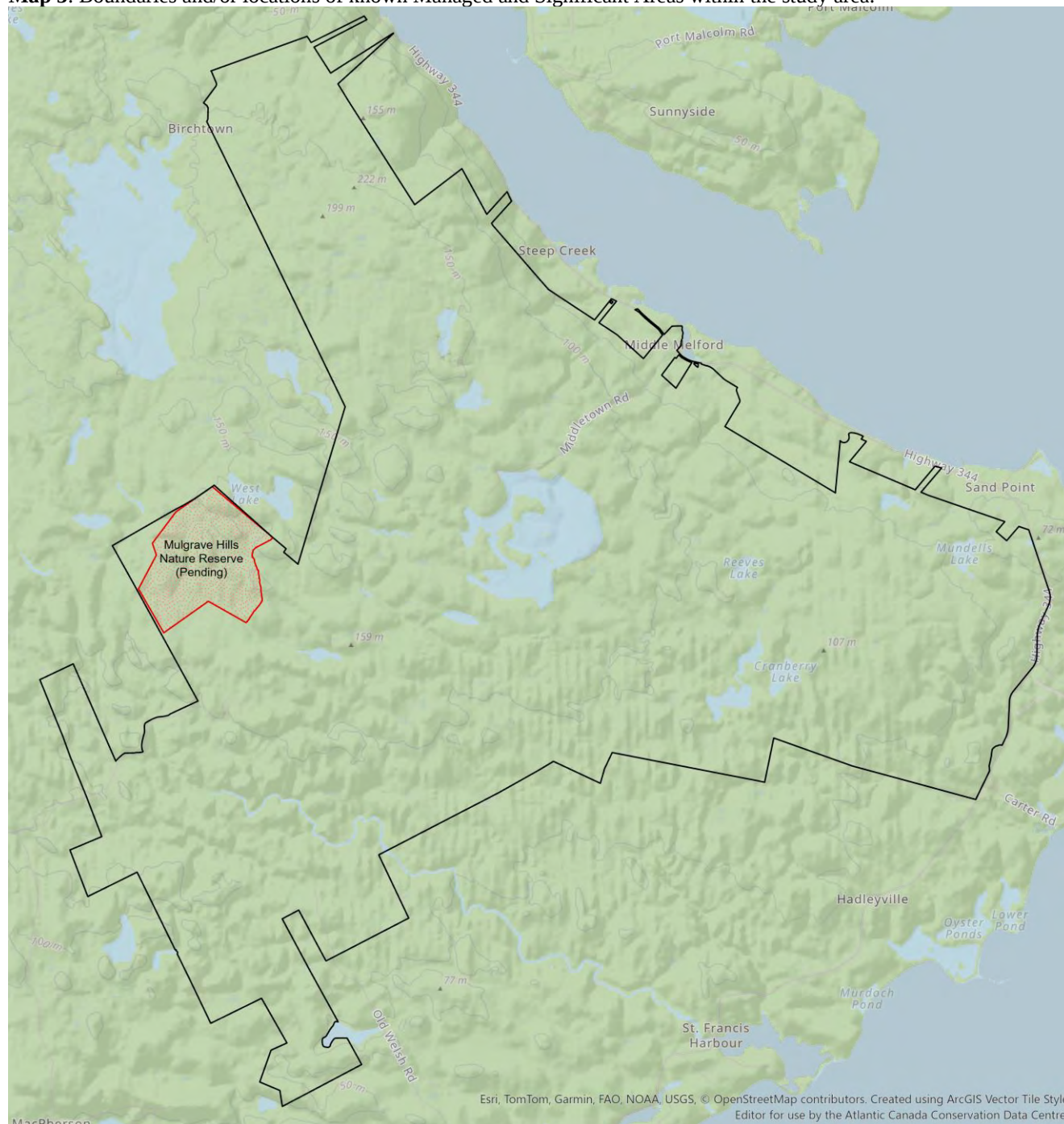
3.1 MANAGED AREAS

The GIS scan identified one managed area in the vicinity of the study area (Map 3 and attached file: *msa.xls).

3.2 SIGNIFICANT AREAS

Significant Areas are sites with a conservation designation and management that qualifies them for listing in the Canadian Protected and Conserved Areas Database (CPCAD; <https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html>). The absence of a “Significant Area” within a site or region does not indicate an absence of ecologically significant properties. The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3 and attached file: *msa.xls).

Map 3: Boundaries and/or locations of known Managed and Significant Areas within the study area.



 Managed Area  Significant Area

4.0 RARE SPECIES LISTS

Rare and/or endangered taxa (excluding “location-sensitive” species, section 4.3) within the study area listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation ($\pm$ the precision, in km, of the record). [P] = vascular plant, [N] = nonvascular plant, [A] = vertebrate animal, [I] = invertebrate animal, [C] = community. Note: records are from attached files *ob.xls/*ob.shp only.

4.1 FLORA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
N	<i>Pectenium plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	16	1.9 $\pm$ 0.01
N	<i>Polychidium muscicola</i>	Eyed Mossthorns Woollybear Lichen				S1	1	3.3 $\pm$ 0.05
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S2S3	1	2.3 $\pm$ 0.01
N	<i>Fuscopannaria sorediata</i>	a Lichen				S2S3	1	1.9 $\pm$ 0.03
N	<i>Fuscopannaria ahneri</i>	Roughened Shingle Lichen				S3	2	3.0 $\pm$ 0.01
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S3	5	1.7 $\pm$ 0.01
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	2	3.2 $\pm$ 0.01
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	1	4.7 $\pm$ 0.01
P	<i>Fagus grandifolia</i>	American Beech				S3S4	5	2.9 $\pm$ 0.01
P	<i>Amelanchier spicata</i>	Running Serviceberry				S3S4	1	4.7 $\pm$ 0.01
P	<i>Geocaulon lividum</i>	Northern Comandra				S3S4	28	4.4 $\pm$ 0.01
P	<i>Diphasiastrum sitchense</i>	Sitka Ground-cedar				S3S4	3	4.4 $\pm$ 0.01

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	1	6.8 $\pm$ 7.07
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	2	6.8 $\pm$ 7.07
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	2	6.8 $\pm$ 0.15
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	3	0.8 $\pm$ 0.2
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	6	5.3 $\pm$ 0.15
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	1	6.8 $\pm$ 7.07
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	2	6.8 $\pm$ 7.07
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	1	6.8 $\pm$ 7.07
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	4	3.1 $\pm$ 0.01
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	14	1.0 $\pm$ 0.01
A	<i>Spinus pinus</i>	Pine Siskin				S3	1	6.8 $\pm$ 7.07
A	<i>Tringa semipalmata</i>	Willet				S3B	1	6.8 $\pm$ 7.07
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	1	6.8 $\pm$ 7.07
A	<i>Falco sparverius</i>	American Kestrel				S3B, S4S5M	1	6.8 $\pm$ 7.07
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3B, S4S5N, S5M	2	6.8 $\pm$ 7.07
A	<i>Setophaga tigrina</i>	Cape May Warbler				S3B, SUM	2	6.8 $\pm$ 7.07
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	2	5.3 $\pm$ 0.15
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B, S4S5M	4	5.3 $\pm$ 0.15
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B, S5M	2	6.8 $\pm$ 7.07
A	<i>Leiothlypis peregrina</i>	Tennessee Warbler				S3S4B, S5M	2	6.8 $\pm$ 7.07
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4B, S5M	1	6.8 $\pm$ 7.07

4.3 LOCATION SENSITIVE SPECIES

The Department of Natural Resources in each Maritimes province considers a number of species “location sensitive”. Concern about exploitation of location-sensitive species precludes inclusion of precise coordinates in this report. Those intersecting your study area are indicated below with “**YES**”.

Nova Scotia

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within the Study Site?
<i>Alces alces americana</i>	Moose – Mainland population		Endangered	No
<i>Fraxinus nigra</i>	Black Ash		Threatened	YES
<i>Emydoidea blandingii</i>	Blanding's Turtle - Nova Scotia pop.	Endangered	Endangered	No
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	No
<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius pop.		Vulnerable	No
<i>Bat Hibernaculum</i> or bat species occurrence		[Endangered] ¹	[Endangered] ¹	No
<i>Snake hibernaculum</i>		[Threatened] ²	[Threatened] ²	No

¹ *Myotis lucifugus* (Little Brown Myotis), *Myotis septentrionalis* (Long-eared Myotis), and *Perimyotis subflavus* (Tri-colored Bat or Eastern Pipistrelle) are all Endangered under the Federal Species at Risk Act and the NS Endangered Species Act.

² *Thamnophis sauritus* (Eastern Ribbonsnake) is Threatened under the Federal Species at Risk Act (SARA) and the Nova Scotia Endangered Species Act. Occurrences between October 15 – April 15 are considered location sensitive.

4.4 SOURCE BIBLIOGRAPHY

The recipient of these data shall acknowledge the AC CDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

# recs	CITATION
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2	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
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1	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobeatic Research Institute.
1	Nova Scotia Department of Lands and Forestry. 2020. NS Lands Proposed or Pending Protection. NSDLF, 231 features. Received via email.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 28391 records of 156 vertebrate and 1046 records of 56 invertebrate fauna; 5931 records of 232 vascular and 4919 records of 135 nonvascular flora (attached: *ob100km.xls).

Taxa within 100 km of the study site that are rare and/or endangered in the province in which the study site occurs (including “location-sensitive” species). All ranks correspond to the province in which the study site falls, even for out-of-province records. Taxa are listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation ($\pm$ the precision, in km, of the record).

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	74	100.0 ± 0.1	NS
A	<i>Myotis septentrionalis</i>	Northern Myotis	Endangered	Endangered	Endangered	S1	4	41.0 ± 0.01	NS
A	<i>Perimyotis subflavus</i>	Tricolored Bat	Endangered	Endangered	Endangered	S1	2	46.6 ± 0.01	NS
A	<i>Salmo salar</i> pop. 4	Atlantic Salmon - Eastern Cape Breton population	Endangered			S1	34	14.9 ± 0.5	NS
A	<i>Salmo salar</i> pop. 6	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	24	11.5 ± 1.0	NS
A	<i>Eubalaena glacialis</i>	North Atlantic Right Whale	Endangered	Endangered		S1	1	82.0 ± 1.62	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	556	16.0 ± 7.07	NS
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	92	26.2 ± 7.07	NS
A	<i>Dermochelys coriacea</i> pop. 2	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	2	16.3 ± 0.2	NS
A	<i>Pagophila eburnea</i>	Ivory Gull	Endangered	Endangered		SNA	1	16.6 ± 0.2	NS
A	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	Endangered	Endangered		SNA	1	33.5 ± 0.2	NS
A	<i>Icteria virens virens</i>	Yellow-breasted Chat	Endangered	Endangered		SNA	1	53.2 ± 0.2	NS
A	<i>Lasionycteris noctivagans</i>	Silver-haired Bat	Endangered			SUB,S1M	3	49.5 ± 0.01	NS
A	<i>Lasiurus borealis</i>	Eastern Red Bat	Endangered			SUB,S1M	1	92.5 ± 0.1	NS
A	<i>Lasiurus cinereus</i>	Hoary Bat	Endangered			SUB,S1M	2	46.6 ± 0.01	NS
A	<i>Catharus minimus minimus</i>	Gray-cheeked Thrush minimus subspecies	Threatened			S1?B	5	37.6 ± 0.15	NS
A	<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Threatened	Endangered	S1B	7	38.8 ± 7.07	NS
A	<i>Asio flammeus</i>	Short-eared Owl	Threatened	Special Concern		S1B	7	41.7 ± 0.15	NS
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	7906	15.7 ± 10.0	NS
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	638	14.7 ± 7.07	NS
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	141	16.7 ± 7.07	NS
A	<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S2S3M	13	32.8 ± 0.2	NS
A	<i>Acipenser oxyrinchus</i> pop. 2	Atlantic Sturgeon - Maritimes populations	Threatened			S2S3N	1	91.4 ± 0.5	NS
A	<i>Hydrobates leucorhous</i> pop. 1	Leach's Storm-Petrel - Atlantic Population	Threatened			S3B	60	16.3 ± 0.2	NS
A	<i>Tringa flavipes</i>	Lesser Yellowlegs	Threatened			S3M	255	26.5 ± 0.5	NS
A	<i>Limnodromus griseus</i> ssp. 1	Short-billed Dowitcher hendersoni/griseus	Threatened			S3M	126	37.2 ± 0.2	NS
A	<i>Anguilla rostrata</i>	American Eel	Threatened			S3N	15	17.8 ± 0.2	NS
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened		SHB	2	26.2 ± 7.07	NS
A	<i>Bubo scandiacus</i>	Snowy Owl	Threatened			SNA	8	45.4 ± 0.2	NS
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB	8	24.6 ± 7.07	NS
A	<i>Salmo salar</i> pop. 12	Atlantic Salmon - Gaspé - Southern Gulf of St. Lawrence population	Special Concern			S1	20	22.5 ± 1.0	NS
A	<i>Antrostomus vociferus</i>	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	3	50.3 ± 7.07	NS
A	<i>Passerculus sandwichensis princeps</i>	Ipswich Sparrow	Special Concern	Special Concern		S1B	13	34.5 ± 0.2	NS
A	<i>Bucephala islandica</i> pop. 1	Barrow's Goldeneye - Eastern Population	Special Concern	Special Concern		S1N,SUM	10	12.0 ± 0.2	NS
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	225	11.1 ± 0.05	NS
A	<i>Histrionicus histrionicus</i> pop. 1	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2N	38	16.3 ± 16.6	NS
A	<i>Balaenoptera physalus</i> pop. 1	Fin Whale - Atlantic population	Special Concern	Special Concern		S2S3	2	66.5 ± 0.2	NS
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	1	53.5 ± 0.2	NS
A	<i>Morone saxatilis</i> pop. 1	Striped Bass - Southern	Special Concern			S2S3N	1	46.8 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
		Gulf of St. Lawrence population							
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	127	24.6 ± 0.01	NS
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	799	14.7 ± 7.07	NS
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	737	100.0 ± 0.15	NS
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	278	0.8 ± 0.2	NS
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1101	13.2 ± 0.15	NS
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	387	14.7 ± 7.07	NS
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	844	11.5 ± 0.2	NS
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	502	14.7 ± 7.07	NS
A	<i>Phocoena phocoena pop. 1</i>	Harbour Porpoise - Northwest Atlantic Population	Special Concern			S4	16	16.2 ± 0.2	NS
A	<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern	Special Concern		S4	8	55.1 ± 1.0	NS
A	<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	Special Concern	Special Concern		SNA	3	52.1 ± 0.5	NS
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1?B,SUN,SUM	6	35.4 ± 1.52	NS
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1B	8	36.9 ± 0.2	NS
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S1B	4	35.2 ± 0.05	NS
A	<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Not At Risk		Vulnerable	S1B,SUM	12	15.0 ± 7.07	NS
A	<i>Sorex dispar gaspensis</i>	Gasp - Shrew	Not At Risk	Special Concern		S2	4	60.4 ± 0.5	NS
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S2?B,SUM	8	31.1 ± 0.15	NS
A	<i>Lynx canadensis</i>	Canada Lynx	Not At Risk		Endangered	S2S3	50	27.3 ± 1.0	NS
A	<i>Globicephala melas</i>	Long-finned Pilot Whale	Not At Risk			S2S3	2	78.0 ± 0.43	NS
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	20	16.9 ± 0.5	NS
A	<i>Megaptera novaeangliae pop. 2</i>	Humpback Whale - Western North Atlantic Population	Not At Risk			S3	12	16.2 ± 0.2	NS
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	622	10.2 ± 0.2	NS
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	21	14.7 ± 7.07	NS
A	<i>Buteo lagopus</i>	Rough-legged Hawk	Not At Risk			S3N	8	14.5 ± 0.49	NS
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4	2	16.5 ± 0.2	NS
A	<i>Ammospiza nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	124	20.1 ± 7.07	NS
A	<i>Calidris canutus rufa</i>	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2M	35	26.3 ± 0.5	NS
A	<i>Alces alces americana</i>	Moose			Endangered	S1	113	23.2 ± 0.01	NS
A	<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S1?	7	35.6 ± 0.15	NS
A	<i>Uria aalge</i>	Common Murre				S1?B	1	40.8 ± 0.2	NS
A	<i>Passerina cyanea</i>	Indigo Bunting				S1?B,SUM	23	31.6 ± 0.15	NS
A	<i>Nycticorax nycticorax</i>	Black-crowned Night Heron				S1B	2	50.3 ± 7.07	NS
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B	7	50.9 ± 0.2	NS
A	<i>Bartramia longicauda</i>	Upland Sandpiper				S1B	1	53.6 ± 0.2	NS
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	1	76.8 ± 3.42	NS
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	19	12.3 ± 0.15	NS
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	7	33.5 ± 0.15	NS
A	<i>Salmo salar</i>	Atlantic Salmon				S1B,S1N	11	61.0 ± 0.2	NS
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B,S4M	331	10.6 ± 0.5	NS
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B,S4M	184	20.0 ± 0.05	NS
A	<i>Anas acuta</i>	Northern Pintail				S1B,SUM	12	40.4 ± 1.0	NS
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B,SUM	7	25.2 ± 7.07	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Vespertilionidae sp.</i>	bat species				S1S2	91	10.4 ± 0.1	NS
A	<i>Vespertilionidae sp. not</i>	Bat species not Big Brown				S1S2	12	29.3 ± 0.1	NS
A	<i>Eptesicus</i>	Bat							
A	<i>Poecetes gramineus</i>	Vesper Sparrow				S1S2B,SUM	6	25.2 ± 7.07	NS
A	<i>Microtus chrotorrhinus</i>	Rock Vole				S2	10	60.4 ± 0.5	NS
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B,SUM	13	33.8 ± 0.5	NS
A	<i>Alca torda</i>	Razorbill				S2B	27	16.5 ± 0.2	NS
A	<i>Fratercula arctica</i>	Atlantic Puffin				S2B	8	47.5 ± 0.34	NS
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	8	46.3 ± 7.07	NS
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	61	15.7 ± 7.07	NS
A	<i>Somateria mollissima</i>	Common Eider				S2B,S2N,S4M	547	15.3 ± 0.15	NS
A	<i>Spatula clypeata</i>	Northern Shoveler				S2B,SUM	6	45.9 ± 0.01	NS
A	<i>Mareca strepera</i>	Gadwall				S2B,SUM	12	16.9 ± 0.2	NS
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B,SUM	10	51.5 ± 7.07	NS
A	<i>Calidris alba</i>	Sanderling				S2N,S3M	150	26.3 ± 0.5	NS
A	<i>Melanitta perspicillata</i>	Surf Scoter				S2N,S4M	93	11.9 ± 0.2	NS
A	<i>Melanitta deglandi</i>	White-winged Scoter				S2N,S4M	32	16.3 ± 16.6	NS
A	<i>Martes americana</i>	American Marten			Endangered	S2S3	12	59.5 ± 0.01	NS
A	<i>Asio otus</i>	Long-eared Owl				S2S3	25	12.5 ± 0.15	NS
A	<i>Rallus limicola</i>	Virginia Rail				S2S3B	8	24.4 ± 7.07	NS
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S2S3B	28	12.2 ± 5.86	NS
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	205	20.1 ± 7.07	NS
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2S3B,S2S3N	162	12.2 ± 3.03	NS
A	<i>Morone saxatilis</i>	Striped Bass				S2S3B,S2S3N	12	37.4 ± 0.2	NS
A	<i>Cathartes aura</i>	Turkey Vulture				S2S3B,S4S5M	11	34.0 ± 0.2	NS
A	<i>Setophaga pinus</i>	Pine Warbler				S2S3B,S4S5M	15	12.5 ± 0.2	NS
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B,SUM	40	12.5 ± 0.2	NS
A	<i>Pluvialis dominica</i>	American Golden-Plover				S2S3M	30	40.7 ± 1.5	NS
A	<i>Numenius phaeopus hudsonicus</i>	Whimbrel				S2S3M	82	24.7 ± 0.2	NS
A	<i>Phalaropus fulicarius</i>	Red Phalarope				S2S3M	2	53.7 ± 0.36	NS
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	659	100.0 ± 0.01	NS
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	1288	1.0 ± 0.01	NS
A	<i>Spinus pinus</i>	Pine Siskin				S3	613	14.7 ± 7.07	NS
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	78	14.9 ± 0.5	NS
A	<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3	4	60.4 ± 0.5	NS
A	<i>Pekania pennanti</i>	Fisher				S3	9	12.7 ± 0.01	NS
A	<i>Calcarius lapponicus</i>	Lapland Longspur				S3?N,SUM	7	29.4 ± 4.16	NS
A	<i>Spatula discors</i>	Blue-winged Teal				S3B	106	24.6 ± 7.07	NS
A	<i>Charadrius vociferus</i>	Killdeer				S3B	193	14.7 ± 7.07	NS
A	<i>Tringa semipalmata</i>	Willet				S3B	654	15.0 ± 7.07	NS
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	111	15.3 ± 0.15	NS
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	47	24.6 ± 7.07	NS
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	103	13.5 ± 0.15	NS
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	351	10.5 ± 0.15	NS
A	<i>Alosa pseudoharengus</i>	Alewife				S3B	37	24.1 ± 0.5	NS
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S4M	392	10.6 ± 0.5	NS
A	<i>Falco sparverius</i>	American Kestrel				S3B,S4S5M	319	14.7 ± 7.07	NS
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3B,S4S5N,	252	11.0 ± 0.2	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Gallinago delicata</i>	Wilson's Snipe				S5M			
A	<i>Setophaga striata</i>	Blackpoll Warbler				S3B,S5M	623	14.7 ± 7.07	NS
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	160	100.0 ± 0.15	NS
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	174	11.0 ± 0.15	NS
A	<i>Setophaga tigrina</i>	Cape May Warbler				S3B,SUM	163	14.7 ± 7.07	NS
A	<i>Branta bernicla</i>	Brant				S3M	3	16.3 ± 16.6	NS
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M	224	26.3 ± 0.5	NS
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	122	10.6 ± 0.5	NS
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	249	22.9 ± 0.01	NS
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3M	41	40.7 ± 1.5	NS
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N	68	11.9 ± 0.2	NS
A	<i>Podiceps auritus pop. 2</i>	Horned Grebe - Western population		Special Concern		S3N,SUM	29	11.9 ± 0.2	NS
A	<i>Accipiter atricapillus</i>	American Goshawk				S3S4	158	12.9 ± 0.2	NS
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	110	15.4 ± 0.15	NS
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	118	11.2 ± 0.01	NS
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B,S4S5M	207	15.0 ± 7.07	NS
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B,S4S5M	425	10.5 ± 0.15	NS
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B,S5M	792	10.5 ± 0.2	NS
A	<i>Leiothlypis peregrina</i>	Tennessee Warbler				S3S4B,S5M	416	13.5 ± 0.15	NS
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4B,S5M	166	100.0 ± 0.15	NS
A	<i>Bucephala albeola</i>	Bufflehead				S3S4N	68	14.5 ± 0.49	NS
A	<i>Calidris maritima</i>	Purple Sandpiper				S3S4N	34	10.7 ± 10.0	NS
A	<i>Lanius borealis</i>	Northern Shrike				S3S4N	19	41.0 ± 1.0	NS
A	<i>Morus bassanus</i>	Northern Gannet				SHB	139	10.6 ± 1.14	NS
A	<i>Aythya americana</i>	Redhead				SHB	10	50.9 ± 0.2	NS
A	<i>Leucophaeus atricilla</i>	Laughing Gull				SHB	4	37.4 ± 0.25	NS
A	<i>Progne subis</i>	Purple Martin				SHB	5	47.5 ± 0.34	NS
A	<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N,S5M	5	63.6 ± 0.53	NS
I	<i>Bombus bohemicus</i>	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	10	47.8 ± 5.0	NS
I	<i>Danaus plexippus</i>	Monarch	Endangered	Endangered	Endangered	S2?B,S3M	179	7.2 ± 0.01	NS
I	<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S3	9	21.1 ± 0.1	NS
I	<i>Bombus terricola</i>	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	375	13.4 ± 0.2	NS
I	<i>Coccinella transversoguttata richardsoni</i>	Transverse Lady Beetle	Special Concern	Special Concern	Endangered	SH	1	62.7 ± 2.5	NS
I	<i>Papilio breviceauda bretonensis</i>	Short-tailed Swallowtail				S1	4	79.3 ± 2.5	NS
I	<i>Atlanticoncha ochracea</i>	Tidewater Mucket				S1	12	98.2 ± 0.5	NS
I	<i>Polygonia satyrus</i>	Satyr Comma				S1?	1	79.5 ± 2.5	NS
I	<i>Euphyes bimacula</i>	Two-spotted Skipper				S1S2	2	47.5 ± 0.1	NS
I	<i>Boloria chariclea grandis</i>	Purple Lesser Fritillary				S1S2	2	83.1 ± 2.5	NS
I	<i>Haematopota rara</i>	Shy Cleg				S1S3	1	51.6 ± 0.05	NS
I	<i>Tharsalea dorcas</i>	Dorcas Copper				S2	36	43.7 ± 0.01	NS
I	<i>Tharsalea dospassosi</i>	Maritime Copper				S2	1	61.9 ± 0.05	NS
I	<i>Neurocordulia michaeli</i>	Broad-tailed Shadowdragon				S2	26	61.7 ± 0.05	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
I	<i>Somatochlora septentrionalis</i>	Muskeg Emerald				S2	8	84.8 ± 0.05	NS
I	<i>Margaritifera margaritifera</i>	Eastern Pearlshell				S2	123	18.9 ± 0.5	NS
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S2?B	3	22.7 ± 0.01	NS
I	<i>Nymphalis l-album j-album</i>	Compton Tortoiseshell				S2S3	3	83.1 ± 2.5	NS
I	<i>Aglaia milberti</i>	Milbert's Tortoiseshell				S2S3	2	80.7 ± 2.5	NS
I	<i>Lanthus vernalis</i>	Southern Pygmy Clubtail				S2S3	8	53.4 ± 0.2	NS
I	<i>Somatochlora williamsoni</i>	Williamson's Emerald				S2S3	8	86.4 ± 0.05	NS
I	<i>Alasmidonta undulata</i>	Triangle Floater				S2S3	5	26.5 ± 0.25	NS
I	<i>Sphaeroderus nitidicollis</i>	Polished Snail-eating Beetle				S3	1	42.8 ± 0.2	NS
I	<i>Astyleiopus variegatus</i>	Variegated Long-horned Beetle				S3	1	95.9 ± 0.2	NS
I	<i>Psephenus herricki</i>	Herrick's Water Penny Beetle				S3	1	57.0 ± 0.2	NS
I	<i>Platydracus fossator</i>	Digging Rove Beetle				S3	2	58.9 ± 0.2	NS
I	<i>Chrysochus auratus</i>	Dogbane Leaf Beetle				S3	1	58.9 ± 0.2	NS
I	<i>Naemia seriata</i>	Seaside Lady Beetle				S3	3	52.2 ± 0.54	NS
I	<i>Tachyerges ephippiatus</i>	Caparison Weevil				S3	1	58.9 ± 0.2	NS
I	<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle				S3	1	37.7 ± 0.2	NS
I	<i>Myzia pullata</i>	Streaked Lady Beetle				S3	1	88.4 ± 0.2	NS
I	<i>Iphthiminus opacus</i>	Cloudy Darkling Beetle				S3	1	45.9 ± 0.01	NS
I	<i>Monochamus marmorator</i>	Balsam Fir Sawyer				S3	2	59.4 ± 0.2	NS
I	<i>Callophrys lanoraieensis</i>	Bog Elfin				S3	1	88.8 ± 0.2	NS
I	<i>Strymon melinus</i>	Gray Hairstreak				S3	2	33.2 ± 0.1	NS
I	<i>Phanogomphus descriptus</i>	Harpoon Clubtail				S3	16	30.5 ± 0.05	NS
I	<i>Ophiogomphus aspersus</i>	Brook Snaketail				S3	5	30.5 ± 0.05	NS
I	<i>Ophiogomphus mainensis</i>	Maine Snaketail				S3	10	62.7 ± 0.1	NS
I	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail				S3	36	61.6 ± 0.05	NS
I	<i>Somatochlora forcipata</i>	Forcipate Emerald				S3	7	74.1 ± 1.0	NS
I	<i>Enallagma vernale</i>	Vernal Bluet				S3	8	27.5 ± 0.05	NS
I	<i>Polygonia interrogationis</i>	Question Mark				S3B	19	26.1 ± 0.25	NS
I	<i>Cecropterus pylades</i>	Northern Cloudywing				S3S4	15	36.7 ± 0.01	NS
I	<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S3S4	8	39.9 ± 1.0	NS
I	<i>Argynnis aphrodite winni</i>	Aphrodite Fritillary				S3S4	7	48.0 ± 2.5	NS
I	<i>Polygonia faunus</i>	Green Comma				S3S4	14	42.7 ± 0.05	NS
I	<i>Oeneis jutta ascerta</i>	Jutta Arctic				S3S4	6	40.7 ± 0.01	NS
I	<i>Aeshna clepsydra</i>	Mottled Darner				S3S4	3	19.2 ± 0.05	NS
I	<i>Aeshna constricta</i>	Lance-Tipped Darner				S3S4	1	88.6 ± 0.2	NS
I	<i>Boyeria grafiana</i>	Ocellated Darner				S3S4	8	51.8 ± 0.2	NS
I	<i>Gomphaeschna furcillata</i>	Harlequin Darner				S3S4	3	18.4 ± 0.05	NS
I	<i>Erythrodiplax berenice</i>	Seaside Dragonlet				S3S4	11	39.9 ± 0.01	NS
I	<i>Nannothemis bella</i>	Elfin Skimmer				S3S4	6	18.4 ± 0.05	NS
I	<i>Sympetrum danae</i>	Black Meadowhawk				S3S4	8	26.4 ± 0.05	NS
I	<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3S4	17	45.1 ± 0.05	NS
I	<i>Polygonia gracilis</i>	Hoary Comma				SH	1	80.7 ± 2.5	NS
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1	17	81.4 ± 0.5	NS
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	564	21.8 ± 0.5	NS
N	<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1	120	13.9 ± 0.5	NS
N	<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3	290	36.8 ± 0.01	NS
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3	6	78.1 ± 1.0	NS

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N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S3	3	38.0 ± 0.01	NS
N	<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen	Threatened			S3	7	56.8 ± 0.01	NS
N	<i>Pectenia plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	1018	1.9 ± 0.2	NS
N	<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4	28	5.9 ± 0.01	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3	7	28.2 ± 0.01	NS
N	<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S3	9	38.7 ± 0.01	NS
N	<i>Cinclidium stygium</i>	Sooty Cupola Moss				S1	2	47.6 ± 0.01	NS
N	<i>Usnea perplexans</i>	Powdered Beard Lichen				S1	1	76.7 ± 1.0	NS
N	<i>Cladonia brevis</i>	Short Peg Lichen				S1	1	52.2 ± 0.0	NS
N	<i>Lathagrium cristatum</i>	Fingered Jelly Lichen				S1	3	61.3 ± 4.0	NS
N	<i>Scytinium schraderi</i>	Wrinkled Jellyskin Lichen				S1	1	60.1 ± 1.0	NS
N	<i>Polychidium muscicola</i>	Eyed Mossthorns				S1	4	3.3 ± 0.05	NS
N	<i>Sticta limbata</i>	Woollybear Lichen				S1	5	27.7 ± 0.01	NS
N	<i>Dermatocarpon miniatum</i>	Powdered Moon Lichen				S1	1	93.7 ± 0.01	NS
N	<i>Peltigera lepidophora</i>	Common Stippleback Lichen				S1	3	61.5 ± 0.01	NS
N	<i>Hypogymnia hultenii</i>	Scaly Pelt Lichen				S1	20	25.0 ± 0.5	NS
N	<i>Jubula pennsylvanica</i>	Powdered Honeycomb Lichen				S1?	3	40.8 ± 0.2	NS
N	<i>Eocalypogeia schusteriana</i>	a liverwort	Schuster's Pouchwort			S1?	2	85.8 ± 0.01	NS
N	<i>Brachythecium erythrorrhizon</i>	Schuster's Pouchwort				S1?	4	86.2 ± 0.01	NS
N	<i>Conardia compacta</i>	Taiga Ragged Moss				S1?	1	62.7 ± 2.0	NS
N	<i>Oligotrichum hercynicum</i>	Coast Creeping Moss				S1?	3	62.5 ± 0.01	NS
N	<i>Paludella squarrosa</i>	Hercynian Hair Moss				S1?	1	82.6 ± 5.0	NS
N	<i>Lathagrium undulatum</i> var. <i>granulosum</i>	Tufted Fen Moss				S1?	1	55.8 ± 1.0	NS
N	<i>Scytinium intermedium</i>	Granular Jelly Flakes				S1?	3	49.2 ± 4.0	NS
N	<i>Peltigera malacea</i>	Forty-five Jellyskin Lichen				S1?	1	33.4 ± 0.01	NS
N	<i>Buxbaumia minakatae</i>	Veinless Pelt Lichen				S1S2	1	86.9 ± 100.0	NS
N	<i>Hamatocaulis vernicosus</i>	Hump-Backed Elves				S1S2	1	51.6 ± 0.01	NS
N	<i>Enchylum bachmanianum</i>	a Moss	Bachman's Jelly Lichen			S1S2	2	63.8 ± 1.0	NS
N	<i>Placidium squamulosum</i>	Limy Soil Stipplescale Lichen				S1S2	1	61.3 ± 4.0	NS
N	<i>Cladonia labradorica</i>	Labrador Lichen				S1S2	1	37.1 ± 0.05	NS
N	<i>Parmotrema reticulatum</i>	Netted Ruffle Lichen				S1S2	1	21.9 ± 0.5	NS
N	<i>Solorina spongiosa</i>	Fringed Chocolate Chip Lichen				S1S2	11	55.9 ± 0.2	NS
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen				S1S2	31	21.9 ± 0.5	NS
N	<i>Barbilophozia lycopodioides</i>	Greater Pawwort				S1S3	1	62.2 ± 0.01	NS
N	<i>Odontoschisma sphagni</i>	Bog-Moss Flapwort				S1S3	1	76.6 ± 0.01	NS
N	<i>Xylopsora friesii</i>	a Lichen				S1S3	1	86.2 ± 0.01	NS
N	<i>Peltigera neckeri</i>	Black-saddle Pelt Lichen				S1S3	5	39.8 ± 0.01	NS
N	<i>Anacamptodon splachnoides</i>	a Moss				S2	2	12.8 ± 0.2	NS
N	<i>Scorpidium scorpioides</i>	Hooked Scorpion Moss				S2	13	43.6 ± 0.01	NS
N	<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss				S2	4	41.1 ± 0.01	NS
N	<i>Sphagnum subnitens</i>	Lustrous Peat Moss				S2	2	57.1 ± 0.01	NS
N	<i>Scorpidium cossonii</i>	Cosson's Hook Moss				S2	6	41.4 ± 0.01	NS
N	<i>Scytinium imbricatum</i>	Scaly Jellyskin Lichen				S2	1	74.9 ± 0.05	NS

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N	<i>Nephroma arcticum</i>	Arctic Kidney Lichen				S2	3	62.9 ± 0.5	NS
N	<i>Nephroma resupinatum</i>	a lichen				S2	2	35.0 ± 0.5	NS
N	<i>Anaptychia crinalis</i>	Hanging Fringed Lichen				S2	1	93.7 ± 0.5	NS
N	<i>Moerckia flotoviana</i>	Flotow's Ruffwort				S2?	2	85.8 ± 0.01	NS
N	<i>Riccardia multifida</i>	Delicate Germanderwort				S2?	2	41.3 ± 0.2	NS
N	<i>Anomodon viticulosus</i>	a Moss				S2?	2	62.9 ± 1.0	NS
N	<i>Atrichum angustatum</i>	Lesser Smoothcap Moss				S2?	2	52.4 ± 3.0	NS
N	<i>Drepanocladus polygamus</i>	Polygamous Hook Moss				S2?	3	55.4 ± 0.01	NS
N	<i>Pseudocampylium radicale</i>	Long-stalked Fine Wet Moss				S2?	1	43.6 ± 0.01	NS
N	<i>Fontinalis sullivantii</i>	Sullivant's Water Moss				S2?	1	86.9 ± 100.0	NS
N	<i>Philonotis marchica</i>	a Moss				S2?	1	82.8 ± 0.01	NS
N	<i>Platydictya jungermannioides</i>	False Willow Moss				S2?	5	49.2 ± 0.01	NS
N	<i>Tortella fragilis</i>	Fragile Twisted Moss				S2?	8	57.9 ± 0.01	NS
N	<i>Cyrtomnium hymenophylloides</i>	Short-pointed Lantern Moss				S2?	1	89.6 ± 0.01	NS
N	<i>Platylomella lescurei</i>	a Moss				S2?	1	69.4 ± 0.2	NS
N	<i>Scorpidium revolvens</i>	Limprichtia Moss				S2S3	8	40.7 ± 0.01	NS
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S2S3	35	2.3 ± 0.01	NS
N	<i>Moelleropsis nebulosa ssp. frullaniae</i>	Blue-gray Moss Shingle Lichen				S2S3	1	84.6 ± 0.5	NS
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen				S2S3	13	19.7 ± 0.5	NS
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2S3	264	36.9 ± 0.01	NS
N	<i>Usnea hirta</i>	Bristly Beard Lichen				S2S3	1	60.7 ± 0.2	NS
N	<i>Usnea rubicunda</i>	Red Beard Lichen				S2S3	3	41.0 ± 0.01	NS
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3	3	86.2 ± 6.33	NS
N	<i>Cetraria muricata</i>	Spiny Heath Lichen				S2S3	2	37.4 ± 1.7	NS
N	<i>Cladonia incrassata</i>	Powder-foot British Soldiers Lichen				S2S3	1	83.8 ± 0.05	NS
N	<i>Scytinium tenuissimum</i>	Birdnest Jellyskin Lichen				S2S3	18	39.7 ± 0.01	NS
N	<i>Parmelia fertilis</i>	Fertile Shield Lichen				S2S3	26	36.9 ± 0.01	NS
N	<i>Parmeliopsis ambigua</i>	Green Starburst Lichen				S2S3	3	32.5 ± 0.5	NS
N	<i>Usnea mutabilis</i>	Bloody Beard Lichen				S2S3	1	43.6 ± 0.5	NS
N	<i>Fuscopannaria soorediata</i>	a Lichen				S2S3	21	1.9 ± 0.03	NS
N	<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen				S2S3	24	25.4 ± 0.01	NS
N	<i>Hypotrachyna revoluta</i>	Granulating Loop Lichen				S2S3	1	53.4 ± 0.01	NS
N	<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen				S2S3	3	35.7 ± 0.01	NS
N	<i>Usnea flammea</i>	Coastal Bushy Beard Lichen				S2S3	3	23.2 ± 0.01	NS
N	<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss				S3	3	62.9 ± 0.01	NS
N	<i>Anomodon tristis</i>	a Moss				S3	1	91.4 ± 0.01	NS
N	<i>Sphagnum contortum</i>	Twisted Peat Moss				S3	7	41.1 ± 0.01	NS
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S3	3	4.7 ± 0.01	NS
N	<i>Tetraplodon mnioides</i>	Entire-leaved Nitrogen Moss				S3	1	34.2 ± 0.01	NS
N	<i>Rostania occulta</i>	Crusted Tarpaper Lichen				S3	4	60.0 ± 5.0	NS

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N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	2	95.6 ± 0.01	NS
N	<i>Solorina saccata</i>	Woodland Owl Lichen				S3	13	16.4 ± 0.05	NS
N	<i>Fuscopannaria ahlneri</i>	Roughened Shingle Lichen				S3	151	3.0 ± 0.01	NS
N	<i>Scytinium lichenoides</i>	Tattered Jellyskin Lichen				S3	19	16.1 ± 0.2	NS
N	<i>Leptogium milligranum</i>	Stretched Jellyskin Lichen				S3	1	32.8 ± 0.01	NS
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3	17	22.4 ± 0.01	NS
N	<i>Placynthium nigrum</i>	Common Ink Lichen				S3	1	91.9 ± 10.0	NS
N	<i>Platismatia norvegica</i>	Oldgrowth Rag Lichen				S3	191	33.1 ± 0.01	NS
N	<i>Punctelia appalachensis</i>	Appalachian Speckleback Lichen				S3	1	37.9 ± 0.01	NS
N	<i>Viridothelium virens</i>	a lichen				S3	1	69.6 ± 5.0	NS
N	<i>Ephebe lanata</i>	Waterside Rockshag Lichen				S3	3	5.7 ± 0.01	NS
N	<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3	5	52.0 ± 0.01	NS
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S3	257	1.7 ± 0.01	NS
N	<i>Cladonia pocillum</i>	Rosette Pixie-cup Lichen				S3	1	85.8 ± 0.01	NS
N	<i>Calliergon giganteum</i>	Giant Spear Moss				S3?	4	60.5 ± 0.01	NS
N	<i>Mnium stellare</i>	Star Leafy Moss				S3?	2	86.2 ± 0.01	NS
N	<i>Sphagnum lindbergii</i>	Lindberg's Peat Moss				S3?	4	30.3 ± 0.01	NS
N	<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?	4	25.4 ± 0.01	NS
N	<i>Cladonia stygia</i>	Black-footed Reindeer Lichen				S3?	36	22.6 ± 0.01	NS
N	<i>Dicranum leioneuron</i>	a Dicranum Moss				S3S4	1	23.1 ± 0.01	NS
N	<i>Encalypta ciliata</i>	Fringed Extinguisher Moss				S3S4	1	11.4 ± 2.5	NS
N	<i>Encalypta procera</i>	Slender Extinguisher Moss				S3S4	14	48.4 ± 0.01	NS
N	<i>Splachnum ampullaceum</i>	Cruet Dung Moss				S3S4	2	50.7 ± 0.01	NS
N	<i>Thamnobryum alleghaniense</i>	a Moss				S3S4	26	81.7 ± 0.01	NS
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4	1	63.3 ± 3.0	NS
N	<i>Hylocomiastrum pyrenaicum</i>	a Feather Moss				S3S4	1	76.4 ± 3.0	NS
N	<i>Enchylium tenax</i>	Soil Tarpaper Lichen				S3S4	14	49.2 ± 4.0	NS
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3S4	30	23.7 ± 0.5	NS
N	<i>Arctoparmelia incurva</i>	Finger Ring Lichen				S3S4	56	29.9 ± 0.01	NS
N	<i>Scytinium teretiusculum</i>	Curly Jellyskin Lichen				S3S4	3	49.4 ± 0.01	NS
N	<i>Leptogium acadiense</i>	Acadian Jellyskin Lichen				S3S4	74	31.1 ± 0.01	NS
N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	22	27.6 ± 0.01	NS
N	<i>Chaenotheca brachypoda</i>	a stubble lichen				S3S4	2	83.8 ± 1.17	NS
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	4	35.1 ± 0.01	NS
N	<i>Vahliaella leucophaea</i>	Shelter Shingle Lichen				S3S4	33	31.6 ± 0.01	NS
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3S4	51	23.9 ± 0.01	NS
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	29	36.3 ± 0.01	NS
N	<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4	3	84.6 ± 0.2	NS
N	<i>Parmeliopsis hyperopta</i>	Gray Starburst Lichen				S3S4	2	32.5 ± 0.5	NS
N	<i>Parmotrema perlatum</i>	Powdered Ruffle Lichen				S3S4	1	83.5 ± 0.01	NS
N	<i>Peltigera hymenina</i>	Cloudy Pelt Lichen				S3S4	2	26.3 ± 0.5	NS
N	<i>Sphaerophorus fragilis</i>	Fragile Coral Lichen				S3S4	10	30.4 ± 0.01	NS
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4	774	21.9 ± 0.5	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4	1	84.9 ± 3.5	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	245	13.3 ± 0.01	NS
N	<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4	8	44.7 ± 0.5	NS
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	97	3.2 ± 0.01	NS
P	<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2	432	3.7 ± 0.01	NS
P	<i>Clethra alnifolia</i>	Coast Pepper-Bush	Threatened	Threatened	Vulnerable	S2	2	86.8 ± 0.2	NS
P	<i>Juncus caesariensis</i>	New Jersey Rush	Special Concern	Special Concern	Vulnerable	S3	264	49.6 ± 0.1	NS
P	<i>Floerkea proserpinacoides</i>	False Mermaidweed	Not At Risk			S2S3	26	21.6 ± 7.07	NS
P	<i>Salix candida</i>	Sage Willow			Endangered	S1	56	70.3 ± 0.01	NS
P	<i>Arnica lonchophylla</i>	Northern Arnica				S1	1	29.7 ± 7.07	NS
P	<i>Betula minor</i>	Dwarf White Birch				S1	1	57.4 ± 0.01	NS
P	<i>Cardamine dentata</i>	Toothed Bittercress				S1	4	40.3 ± 0.5	NS
P	<i>Cochlearia tridactylites</i>	Limestone Scurvy-grass				S1	12	32.3 ± 0.1	NS
P	<i>Stellaria crassifolia</i>	Fleshy Stitchwort				S1	1	48.2 ± 2.0	NS
P	<i>Hudsonia tomentosa</i>	Woolly Beach-heath				S1	7	39.1 ± 1.7	NS
P	<i>Bistorta vivipara</i>	Alpine Bistort				S1	1	39.5 ± 1.0	NS
P	<i>Montia fontana</i>	Water Blinks				S1	2	12.1 ± 3.0	NS
P	<i>Agalinis tenuifolia</i>	Slender Agalinis				S1	1	53.0 ± 0.01	NS
P	<i>Scrophularia lanceolata</i>	Lance-leaved Figwort				S1	2	14.7 ± 1.5	NS
P	<i>Carex alopecoidea</i>	Foxtail Sedge				S1	4	37.0 ± 0.2	NS
P	<i>Carex granularis</i>	Limestone Meadow Sedge				S1	21	43.5 ± 0.01	NS
P	<i>Carex tenuiflora</i>	Sparse-Flowered Sedge				S1	2	49.4 ± 0.5	NS
P	<i>Carex tinctoria</i>	Tinged Sedge				S1	2	37.0 ± 0.2	NS
P	<i>Carex viridula ssp. brachyrrhyncha</i>	Greenish Sedge				S1	1	57.9 ± 0.01	NS
P	<i>Carex viridula var. elatior</i>	Greenish Sedge				S1	59	40.1 ± 0.01	NS
P	<i>Carex grisea</i>	Inflated Narrow-leaved Sedge				S1	6	45.3 ± 0.01	NS
P	<i>Cyperus lupulinus ssp. macilentus</i>	Hop Flatsedge				S1	15	38.2 ± 0.01	NS
P	<i>Eleocharis erythropoda</i>	Red-stemmed Spikerush				S1	7	51.7 ± 0.01	NS
P	<i>Rhynchospora capillacea</i>	Slender Beakrush				S1	8	62.8 ± 10.0	NS
P	<i>Scirpus atrovirens</i>	Dark-green Bulrush				S1	3	57.8 ± 0.01	NS
P	<i>Iris prismatica</i>	Slender Blue Flag				S1	3	59.0 ± 1.5	NS
P	<i>Triantha glutinosa</i>	Sticky False-Asphodel				S1	18	70.3 ± 0.01	NS
P	<i>Malaxis monophyllos var. brachypoda</i>	North American White Adder's-mouth				S1	1	14.7 ± 7.07	NS
P	<i>Calamagrostis stricta ssp. inexpansa</i>	Slim-stemmed Reed Grass				S1	3	32.6 ± 0.01	NS
P	<i>Elymus hystrix</i>	Spreading Wild Rye				S1	1	97.4 ± 1.6	NS
P	<i>Torreyochloa pallida var. pallida</i>	Pale False Manna Grass				S1	2	90.7 ± 1.5	NS
P	<i>Potamogeton nodosus</i>	Long-leaved Pondweed				S1	1	76.0 ± 5.0	NS
P	<i>Sparganium angustifolium</i>	Branching Bur-Reed				S1	3	33.1 ± 1.0	NS
P	<i>Dryopteris goldiana</i>	Goldie's Woodfern				S1	4	81.8 ± 0.2	NS
P	<i>Equisetum palustre</i>	Marsh Horsetail				S1	8	60.0 ± 0.01	NS
P	<i>Botrychium ascendens</i>	Upswept Moonwort				S1	1	64.9 ± 0.2	NS
P	<i>Bolboschoenus robustus</i>	Sturdy Bulrush				S1?	2	80.3 ± 5.0	NS
P	<i>Allium schoenoprasum</i>	Wild Chives				S1?	1	78.5 ± 0.2	NS
P	<i>Allium schoenoprasum var. sibiricum</i>	Wild Chives				S1?	1	26.4 ± 7.07	NS
P	<i>Huperzia selago</i>	Northern Firmoss				S1?	4	93.7 ± 0.01	NS
P	<i>Sanicula odorata</i>	Clustered Sanicle				S1S2	8	33.8 ± 0.5	NS

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P	<i>Ageratina altissima</i>	White Snakeroot				S1S2	2	46.3 ± 7.07	NS
P	<i>Cornus suecica</i>	Swedish Bunchberry				S1S2	3	35.8 ± 6.0	NS
P	<i>Anemone virginiana</i> var. <i>alba</i>	Virginia Anemone				S1S2	6	57.2 ± 1.5	NS
P	<i>Parnassia parviflora</i>	Small-flowered Grass-of-Parnassus				S1S2	17	64.0 ± 1.2	NS
P	<i>Carex haydenii</i>	Hayden's Sedge				S1S2	3	45.9 ± 0.05	NS
P	<i>Platanthera huronensis</i>	Fragrant Green Orchid				S1S2	11	24.7 ± 0.2	NS
P	<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass				S1S2	1	82.7 ± 1.0	NS
P	<i>Selaginella selaginoides</i>	Low Spikemoss				S1S2	5	46.0 ± 0.8	NS
P	<i>Carex vacillans</i>	Estuarine Sedge				S1S3	4	37.1 ± 0.5	NS
P	<i>Zizia aurea</i>	Golden Alexanders				S2	8	38.1 ± 5.0	NS
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S2	2	46.3 ± 7.07	NS
P	<i>Anemonastrum canadense</i>	Canada Anemone				S2	3	23.5 ± 3.0	NS
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup				S2	1	86.0 ± 7.07	NS
P	<i>Comandra umbellata</i>	Bastard's Toadflax				S2	42	37.7 ± 0.01	NS
P	<i>Carex gynocrates</i>	Northern Bog Sedge				S2	15	44.0 ± 0.01	NS
P	<i>Carex livida</i>	Livid Sedge				S2	24	41.4 ± 5.0	NS
P	<i>Juncus Greenei</i>	Greene's Rush				S2	1	39.2 ± 1.5	NS
P	<i>Juncus alpinoarticulatus</i> ssp. <i>americanus</i>	Northern Green Rush				S2	11	33.6 ± 5.0	NS
P	<i>Luzula spicata</i>	Spiked Woodrush				S2	1	45.5 ± 0.01	NS
P	<i>Lilium canadense</i>	Canada Lily				S2	52	20.4 ± 0.01	NS
P	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper				S2	39	14.7 ± 0.2	NS
P	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper				S2	17	11.0 ± 0.01	NS
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S2	407	23.0 ± 0.2	NS
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	2	4.7 ± 0.01	NS
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2	6	11.3 ± 1.67	NS
P	<i>Bromus latiglumis</i>	Broad-Grumled Brome				S2	11	20.9 ± 0.01	NS
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S2	24	20.5 ± 0.01	NS
P	<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S2	9	24.5 ± 0.01	NS
P	<i>Sparganium hyperboreum</i>	Northern Burreed				S2	4	38.8 ± 0.1	NS
P	<i>Cryptogramma stelleri</i>	Steller's Rockbrake				S2	17	57.2 ± 0.01	NS
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S2?	7	37.0 ± 7.07	NS
P	<i>Rumex persicarioides</i>	Peach-leaved Dock				S2?	1	70.7 ± 0.01	NS
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S2?	2	65.6 ± 7.07	NS
P	<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S2S3	20	50.5 ± 0.2	NS
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2S3	19	41.2 ± 1.0	NS
P	<i>Bidens hyperborea</i>	Estuary Beggarticks				S2S3	2	47.0 ± 1.0	NS
P	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane				S2S3	15	51.5 ± 7.07	NS
P	<i>Impatiens pallida</i>	Pale Jewelweed				S2S3	29	25.1 ± 1.0	NS
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2S3	22	24.6 ± 0.01	NS
P	<i>Draba arabisans</i>	Rock Whitlow-Grass				S2S3	3	58.8 ± 1.6	NS
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort				S2S3	4	75.2 ± 0.1	NS
P	<i>Oxybasis rubra</i>	Red Goosefoot				S2S3	3	50.3 ± 7.07	NS
P	<i>Hypericum majus</i>	Large St John's-wort				S2S3	5	64.0 ± 0.01	NS
P	<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3	2	20.6 ± 1.0	NS
P	<i>Empetrum atropurpureum</i>	Purple Crowberry				S2S3	1	33.6 ± 3.0	NS
P	<i>Euphorbia polygonifolia</i>	Seaside Spurge				S2S3	15	26.3 ± 0.01	NS

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P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2S3	4	20.1 ± 7.07	NS
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3	1	64.8 ± 5.0	NS
P	<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2S3	1	79.5 ± 1.5	NS
P	<i>Polygonum oxyspermum</i> ssp. <i>raii</i>	Ray's Knotweed				S2S3	9	18.7 ± 1.0	NS
P	<i>Rumex triangulivalvis</i>	Triangular-valve Dock				S2S3	8	20.1 ± 6.0	NS
P	<i>Anemone quinquefolia</i>	Wood Anemone				S2S3	16	62.0 ± 0.01	NS
P	<i>Caltha palustris</i>	Yellow Marsh Marigold				S2S3	21	54.6 ± 0.01	NS
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2S3	2	30.8 ± 1.0	NS
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3	1	14.3 ± 2.6	NS
P	<i>Salix pellita</i>	Satiny Willow				S2S3	5	8.6 ± 1.6	NS
P	<i>Tiarella stolonifera</i>	Stoloniferous Foamflower				S2S3	1	13.4 ± 3.81	NS
P	<i>Agalinis purpurea</i> var. <i>parviflora</i>	Small-flowered Purple False Foxglove				S2S3	8	39.4 ± 0.2	NS
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	3	34.5 ± 4.5	NS
P	<i>Carex comosa</i>	Bearded Sedge				S2S3	1	84.8 ± 1.5	NS
P	<i>Carex hystericina</i>	Porcupine Sedge				S2S3	36	37.3 ± 0.5	NS
P	<i>Eleocharis ovata</i>	Ovate Spikerush				S2S3	1	30.3 ± 0.01	NS
P	<i>Scirpus pedicellatus</i>	Stalked Bulrush				S2S3	9	21.3 ± 0.01	NS
P	<i>Vallisneria americana</i>	Wild Celery				S2S3	1	36.4 ± 0.01	NS
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S2S3	1	26.3 ± 0.01	NS
P	<i>Spiranthes casei</i> var. <i>novaescotiae</i>	Case's Ladies'-Tresses				S2S3	3	59.8 ± 0.2	NS
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2S3	27	51.5 ± 0.01	NS
P	<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass				S2S3	1	41.6 ± 0.01	NS
P	<i>Potamogeton friesii</i>	Fries' Pondweed				S2S3	7	25.6 ± 0.01	NS
P	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern				S2S3	6	56.8 ± 10.0	NS
P	<i>Woodsia glabella</i>	Smooth Cliff Fern				S2S3	6	56.8 ± 7.07	NS
P	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3	7	42.1 ± 0.2	NS
P	<i>Botrychium simplex</i>	Least Moonwort				S2S3	3	47.7 ± 5.0	NS
P	<i>Angelica atropurpurea</i>	Purple-stemmed Angelica				S3	27	19.5 ± 0.01	NS
P	<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S3	24	8.4 ± 1.0	NS
P	<i>Symphyotrichum boreale</i>	Boreal Aster				S3	72	40.1 ± 0.01	NS
P	<i>Symphyotrichum ciliolatum</i>	Fringed Blue Aster				S3	2	20.6 ± 0.01	NS
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch				S3	18	42.2 ± 0.01	NS
P	<i>Betula pumila</i>	Bog Birch				S3	10	43.1 ± 0.01	NS
P	<i>Palustricodon aparinoides</i>	Marsh Bellflower				S3	6	54.9 ± 5.0	NS
P	<i>Lobelia kalmii</i>	Brook Lobelia				S3	100	36.3 ± 0.01	NS
P	<i>Sagina nodosa</i>	Knotted Pearlwort				S3	3	33.2 ± 5.0	NS
P	<i>Stellaria longifolia</i>	Long-leaved Starwort				S3	1	25.0 ± 0.01	NS
P	<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed				S3	210	35.8 ± 0.2	NS
P	<i>Crassula aquatica</i>	Water Pygmyweed				S3	4	38.8 ± 7.07	NS
P	<i>Empetrum eamesii</i>	Pink Crowberry				S3	1	94.7 ± 0.01	NS
P	<i>Vaccinium uliginosum</i>	Alpine Bilberry				S3	3	81.5 ± 0.5	NS
P	<i>Halenia deflexa</i>	Spurred Gentian				S3	24	25.0 ± 0.01	NS
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3	1	60.4 ± 0.2	NS
P	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil				S3	5	40.3 ± 0.01	NS
P	<i>Utricularia resupinata</i>	Inverted Bladderwort				S3	1	63.2 ± 0.8	NS

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P	<i>Epilobium densum</i>	Downy Willowherb				S3	21	20.1 ± 5.0	NS
P	<i>Polygala sanguinea</i>	Blood Milkwort				S3	12	36.1 ± 0.01	NS
P	<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb				S3	9	21.7 ± 0.01	NS
P	<i>Plantago rugelii</i>	Rugel's Plantain				S3	1	53.0 ± 0.01	NS
P	<i>Samolus parviflorus</i>	Seaside Brookweed				S3	23	45.5 ± 0.01	NS
P	<i>Pyrola minor</i>	Lesser Pyrola				S3	9	57.5 ± 2.0	NS
P	<i>Anemone virginiana</i>	Virginia Anemone				S3	30	46.0 ± 0.01	NS
P	<i>Galium kamtschaticum</i>	Northern Wild Licorice				S3	12	52.2 ± 0.2	NS
P	<i>Galium labradoricum</i>	Labrador Bedstraw				S3	94	40.1 ± 0.01	NS
P	<i>Salix pedicellaris</i>	Bog Willow				S3	12	42.7 ± 0.01	NS
P	<i>Salix sericea</i>	Silky Willow				S3	1	80.6 ± 0.01	NS
P	<i>Saxifraga paniculata</i> ssp. <i>laestadii</i>	Laestadius' Saxifrage				S3	5	54.8 ± 7.07	NS
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimpernel				S3	4	24.3 ± 0.01	NS
P	<i>Laportea canadensis</i>	Canada Wood Nettle				S3	19	20.8 ± 0.01	NS
P	<i>Pilea pumila</i>	Dwarf Clearweed				S3	1	85.2 ± 6.0	NS
P	<i>Viola nephrophylla</i>	Northern Bog Violet				S3	9	26.2 ± 0.01	NS
P	<i>Carex bebbii</i>	Bebb's Sedge				S3	34	44.2 ± 7.07	NS
P	<i>Carex castanea</i>	Chestnut Sedge				S3	16	40.0 ± 0.01	NS
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3	13	19.1 ± 0.7	NS
P	<i>Carex eburnea</i>	Bristle-leaved Sedge				S3	176	46.8 ± 5.0	NS
P	<i>Carex hirtifolia</i>	Pubescent Sedge				S3	14	24.4 ± 0.01	NS
P	<i>Carex lupulina</i>	Hop Sedge				S3	10	49.3 ± 0.01	NS
P	<i>Carex rosea</i>	Rosy Sedge				S3	6	28.7 ± 0.01	NS
P	<i>Carex tenera</i>	Tender Sedge				S3	3	23.8 ± 1.0	NS
P	<i>Carex tribuloides</i>	Blunt Broom Sedge				S3	13	24.3 ± 1.0	NS
P	<i>Carex tuckermanii</i>	Tuckerman's Sedge				S3	2	86.4 ± 0.01	NS
P	<i>Carex atratiformis</i>	Scabrous Black Sedge				S3	2	56.8 ± 7.07	NS
P	<i>Eleocharis flavescens</i> var. <i>olivacea</i>	Bright-green Spikerush				S3	3	49.5 ± 0.1	NS
P	<i>Eleocharis quinqueflora</i>	Few-flowered Spikerush				S3	34	43.9 ± 0.01	NS
P	<i>Eriophorum gracile</i>	Slender Cottongrass				S3	8	43.5 ± 1.0	NS
P	<i>Schoenoplectus americanus</i>	Olney's Bulrush				S3	1	45.5 ± 0.01	NS
P	<i>Juncus stygius</i> ssp. <i>americanus</i>	Moor Rush				S3	31	45.9 ± 1.0	NS
P	<i>Oreojuncus trifidus</i>	Highland Rush				S3	2	59.9 ± 0.75	NS
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper				S3	169	12.0 ± 0.01	NS
P	<i>Goodyera oblongifolia</i>	Menzies' Rattlesnake-plantain				S3	6	84.7 ± 10.0	NS
P	<i>Neottia bifolia</i>	Southern Twayblade				S3	55	6.8 ± 0.01	NS
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	59	12.1 ± 0.01	NS
P	<i>Platanthera hookeri</i>	Hooker's Orchid				S3	3	9.2 ± 0.1	NS
P	<i>Poa glauca</i>	Glaucous Blue Grass				S3	9	57.2 ± 0.01	NS
P	<i>Stuckenia filiformis</i>	Thread-leaved Pondweed				S3	43	20.1 ± 0.01	NS
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S3	12	27.7 ± 0.1	NS
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed				S3	9	25.9 ± 0.01	NS
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S3	9	66.4 ± 7.07	NS
P	<i>Asplenium viride</i>	Green Spleenwort				S3	27	25.7 ± 0.01	NS
P	<i>Dryopteris fragrans</i>	Fragrant Wood Fern				S3	1	6.0 ± 7.07	NS
P	<i>Polystichum lonchitis</i>	Northern Holly Fern				S3	5	38.5 ± 5.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Sceptridium dissectum</i>	Dissected Moonwort				S3	1	64.5 ± 1.0	NS
P	<i>Polypodium appalachianum</i>	Appalachian Polypody				S3	8	31.6 ± 0.01	NS
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed				S3?	1	56.9 ± 0.01	NS
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3?	49	12.2 ± 0.2	NS
P	<i>Diphysastrum x sabinifolium</i>	Savin-leaved Ground-cedar				S3?	11	59.1 ± 1.0	NS
P	<i>Bidens vulgata</i>	Tall Beggarticks				S3S4	1	98.5 ± 0.01	NS
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3S4	88	46.0 ± 0.01	NS
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed				S3S4	1	75.8 ± 0.2	NS
P	<i>Bidens beckii</i>	Water Beggarticks				S3S4	7	49.4 ± 0.5	NS
P	<i>Packera paupercula</i>	Balsam Groundsel				S3S4	181	16.1 ± 0.2	NS
P	<i>Atriplex glabriuscula</i> var. <i>franktonii</i>	Frankton's Saltbush				S3S4	4	6.1 ± 0.01	NS
P	<i>Shepherdia canadensis</i>	Soapberry				S3S4	170	59.6 ± 0.01	NS
P	<i>Vaccinium boreale</i>	Northern Blueberry				S3S4	17	30.8 ± 1.0	NS
P	<i>Vaccinium cespitosum</i>	Dwarf Bilberry				S3S4	29	60.9 ± 0.01	NS
P	<i>Vaccinium corymbosum</i>	Highbush Blueberry				S3S4	1	79.4 ± 0.2	NS
P	<i>Fagus grandifolia</i>	American Beech				S3S4	543	2.9 ± 0.01	NS
P	<i>Bartonia virginica</i>	Yellow Bartonia				S3S4	1	40.8 ± 0.1	NS
P	<i>Decodon verticillatus</i>	Swamp Loosestrife				S3S4	5	41.9 ± 7.07	NS
P	<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed				S3S4	13	19.6 ± 5.0	NS
P	<i>Fallopia scandens</i>	Climbing False Buckwheat				S3S4	20	20.7 ± 0.01	NS
P	<i>Rumex pallidus</i>	Seabeach Dock				S3S4	1	48.1 ± 0.01	NS
P	<i>Pyrola asarifolia</i>	Pink Pyrola				S3S4	10	45.7 ± 0.01	NS
P	<i>Endotropis alnifolia</i>	Alder-leaved Buckthorn				S3S4	532	21.1 ± 0.01	NS
P	<i>Amelanchier spicata</i>	Running Serviceberry				S3S4	6	4.7 ± 0.01	NS
P	<i>Fragaria vesca</i> ssp. <i>americana</i>	Woodland Strawberry				S3S4	73	26.6 ± 0.01	NS
P	<i>Fragaria vesca</i>	Woodland Strawberry				S3S4	1	72.2 ± 0.2	NS
P	<i>Galium aparine</i>	Common Bedstraw				S3S4	3	45.8 ± 0.01	NS
P	<i>Geocaulon lividum</i>	Northern Comandra				S3S4	81	4.3 ± 0.01	NS
P	<i>Limosella australis</i>	Southern Mudwort				S3S4	3	46.9 ± 5.0	NS
P	<i>Ulmus americana</i>	White Elm				S3S4	109	19.5 ± 3.0	NS
P	<i>Verbena hastata</i>	Blue Vervain				S3S4	45	36.9 ± 0.2	NS
P	<i>Viola selkirkii</i>	Great-Spurred Violet				S3S4	1	12.4 ± 1.0	NS
P	<i>Carex argyrantha</i>	Silvery-flowered Sedge				S3S4	1	75.0 ± 0.5	NS
P	<i>Triglochin gaspensis</i>	Gasp J - Arrowgrass				S3S4	6	17.3 ± 0.01	NS
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4	4	55.1 ± 0.01	NS
P	<i>Juncus subcaudatus</i>	Woods-Rush				S3S4	9	27.8 ± 0.01	NS
P	<i>Luzula parviflora</i> ssp. <i>melanocarpa</i>	Black-fruited Woodrush				S3S4	11	73.2 ± 0.01	NS
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3S4	20	26.0 ± 0.01	NS
P	<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4	18	4.4 ± 0.01	NS
P	<i>Platanthera obtusata</i>	Blunt-leaved Orchid				S3S4	9	6.0 ± 10.0	NS
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3S4	8	20.1 ± 0.01	NS
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail				S3S4	15	25.6 ± 0.01	NS
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass				S3S4	97	60.9 ± 0.05	NS
P	<i>Panicum philadelphicum</i>	Philadelphia Panicgrass				S3S4	1	36.4 ± 0.01	NS
P	<i>Koeleria spicata</i>	Narrow False Oats				S3S4	1	60.3 ± 0.01	NS
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort				S3S4	8	9.2 ± 0.2	NS
P	<i>Equisetum pratense</i>	Meadow Horsetail				S3S4	22	41.2 ± 0.01	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Diphasiastrum complanatum</i>	Northern Ground-cedar				S3S4	5	42.0 ± 5.0	NS
P	<i>Diphasiastrum sitchense</i>	Sitka Ground-cedar				S3S4	32	4.4 ± 0.01	NS
P	<i>Huperzia appressa</i>	Mountain Firmoss				S3S4	1	56.5 ± 1.0	NS
P	<i>Sceptridium multifidum</i>	Leathery Moonwort				S3S4	5	43.5 ± 10.0	NS
P	<i>Botrychium matricariifolium</i>	Daisy-leaved Moonwort				S3S4	4	25.2 ± 10.0	NS
P	<i>Viola canadensis</i>	Canada Violet				SH	1	60.7 ± 0.25	NS

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The recipient of these data shall acknowledge the AC CDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

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APPENDIX G
SURFACE WATER AND FISH & FISH HABITAT PHOTO LOG



Photo 1. A representative photo of WC1.



Photo 2. A representative photo of WC2.



Photo 3. A representative photo of WC3.



Photo 4. A representative photo of WC4.



Photo 5. A representative photo of WC5.



Photo 6. A representative photo of WC6.



Photo 7. A representative photo of WC7.



Photo 8. A representative photo of WC8.



Photo 9. A representative photo of WC9.



Photo 10. A representative photo of WC10.



Photo 11. A representative photo of WC11.



Photo 12. A representative photo of WC12.



Photo 13. A representative photo of WC13.



Photo 14. A representative photo of WC14.



Photo 15. A representative photo of WC15.



Photo 16. A representative photo of WC16.



Photo 17. A representative photo of WC17.



Photo 18. A representative photo of WC18.



Photo 19. A representative photo of WC19.



Photo 20. A representative photo of WC20.



Photo 21. A representative photo of WC21.



Photo 22. A representative photo of WC22.



Photo 23. A representative photo of WC23.



Photo 24. A representative photo of WC24.



Photo 25. A representative photo of WC25.



Photo 26. A representative photo of WC26.



Photo 27. A representative photo of WC27.



Photo 28. A representative photo of WC28.



Photo 29. A representative photo of WC29.



Photo 30. A representative photo of WC30.



Photo 31. A representative photo of WC31.



Photo 32. A representative photo of WC32.



Photo 33. A representative photo of WC33.



Photo 34. A representative photo of WC34.



Photo 35. A representative photo of WC36.



Photo 36. A representative photo of WC37.



Photo 37. A representative photo of WC38.



Photo 38. A representative photo of WC39.



Photo 39. A representative photo of WC40.



Photo 40. A representative photo of WC41.



Photo 41. A representative photo of WC42.



Photo 42. A representative photo of WC43.



Photo 43. A representative photo of WC44.



Photo 44. A representative photo of WC45.



Photo 45. A representative photo of WC46.



Photo 46. A representative photo of WC47.



Photo 47. A representative photo of WC48.



Photo 48. A representative photo of WC49.



Photo 49. A representative photo of WC50.



Photo 50. A representative photo of WC51.



Photo 51. A representative photo of WC52.



Photo 52. A representative photo of WC53.



Photo 53. A representative photo of WC54.



Photo 54. A representative photo of WC55.



Photo 55. A representative photo of WC56.



Photo 56. A representative photo of WC57.



Photo 57. A representative photo of WC58.



Photo 58. A representative photo of WC59.



Photo 59. A representative photo of WC60.



Photo 60. A representative photo of WC61.



Photo 61. A representative photo of WC62.



Photo 62. A representative photo of WC63.



Photo 63. A representative photo of WC64.



Photo 64. A representative photo of WC65.



Photo 65. A representative photo of WC66.



Photo 66. A representative photo of WC67.



Photo 67. A representative photo of the electrofishing site 'WC16'.



Photo 68. A representative photo of the electrofishing site 'WC45 (Meadow Brook)'.



Photo 69. A representative photo of the electrofishing site 'WC52 (St. Francis Harbour River)'.



Photo 70. A representative photo of the electrofishing site 'WC64'.



Photo 71. A representative photo of the electrofishing site 'WC65*'.



Photo 72. A representative photo of the electrofishing site 'WC66'.



Photo 73. A representative photo of the electrofishing site 'Marine Drive'.



Photo 74. A representative photo of the electrofishing site 'Middletown Road'.



Photo 75. A representative photo of the electrofishing site 'Melford Brook'.



Photo 76. A representative photo of a brook trout (*Salvelinus fontinalis*).



Photo 77. A representative photo of a brown trout (*Salmo trutta*).



Photo 78. A representative photo of an American eel (*Anguilla rostrata*).

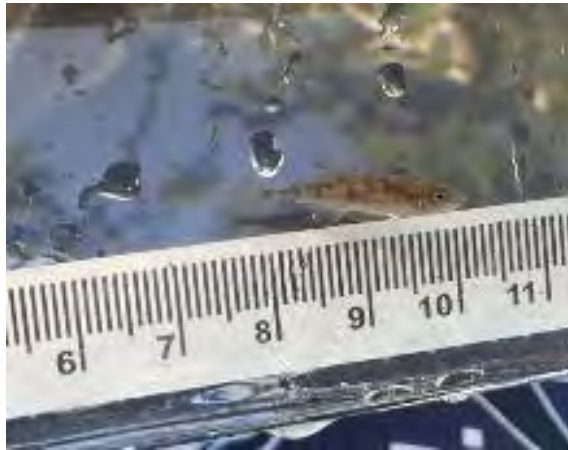


Photo 79. A representative photo of a ninespine stickleback (*Pungitius pungitius*).