

Montreal, June 14, 2024

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**Subject: Engineering services – EMCAB2 Evaluation Hwy 6\_Marden**  
**O/Ref.: P-2024202**

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Ms. Nair,

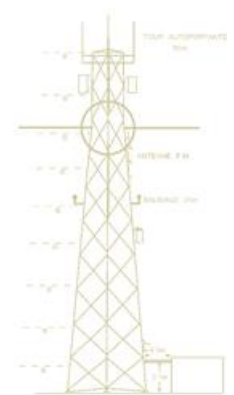
You have requested that we complete the EMCAB-2 evaluation for the site mentioned in the above subject.

From the information we have gathered, it is understood that Bell Mobility is looking at implementing a 79 m self-support tower site with antennas centered at 71 m. The tower is to be located at 7384 Wellington County Rd 30, Ontario. The coordinates mentioned hereafter are the exact proposed location for that tower.

Lat, Long: -80.308865, 43.583454

The following lists the bands and powers that are proposed to be operated at the proposed site:

Band	Radio Model	No. of Physical Ports	Actual Power per Radio	Actual Power per Band	Max Power of Radio
HSPA 850	850 RRU3805	2	40W	40W	60W
HSPA 1900	1900 RRU3804	2	40W	40W	60W
B5/B13 LTE	4490HP B5/B13	4	80W	B5 - 40W and B13 - 40W	240W
B12 LTE	4478 B12A   B12	4	40W	B12 - 40W	160W
B29 LTE	2012 B29	4	40W	B29 - 40W	160W
LTE B25	4466 B2 B7 N66	4	160W	B2 - 160W	640W
NR N25	4466 B2 B7 N66	4	160W	N25 - 160W	640W
LTE B4	4466 B2 B7 N66	4	160W	B4 - 160W	640W
NR N66	4466 B2 B7 N66	4	160W	N66 - 160W	640W
B7 LTE	4466 B2 B7 N66	4	160W	B7 - 160W	640W
B7 LTE	4466 B2 B7 N66	4	160W	B7 - 160W	640W
n78	AIR		Without Duty Cycle 240W>120W>60W With 75% Duty Cycle 180W>90W>45W		Without Duty Cycle 240W With 75% Duty Cycle 180W



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EMCAB2 assessment X6487 - Hwy 6_Marden BMC.docHwy 6_Marden	Project: : P-2024202
By: YRH	Version: 1
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The image below shows the tower location for the X6487 Hwy 6\_Marden proposed replacement site for W1487.



Using the above information, we have evaluated the potential electromagnetic interference from the proposed site that could be expected from its operation at full band and loading capacity using proposed operating powers and max powers for the radios. The analysis was done in accordance with the guidelines defined in EMCAB-2 to arrive to the following conclusions:

The results are presented in the following table

EMCAB 2 STANDARD		Radius within which receivers may experience interference if improperly shielded	
Type of receivers	Field Limit	Using Proposed Operating powers (m)	Using Maximal Radio powers (m)
Broadcast Receivers and associated equipment	1.83 V/m	1105	1612
Tadio Sensitive equipment	3.16 V/m	470	1047

The following images shown on next page presents the circles calculated for the two levels on two maps, one for the proposed operating powers (figure 1) and the other for maximal radio powers (figure 2). The circles are centered around the proposed site location.

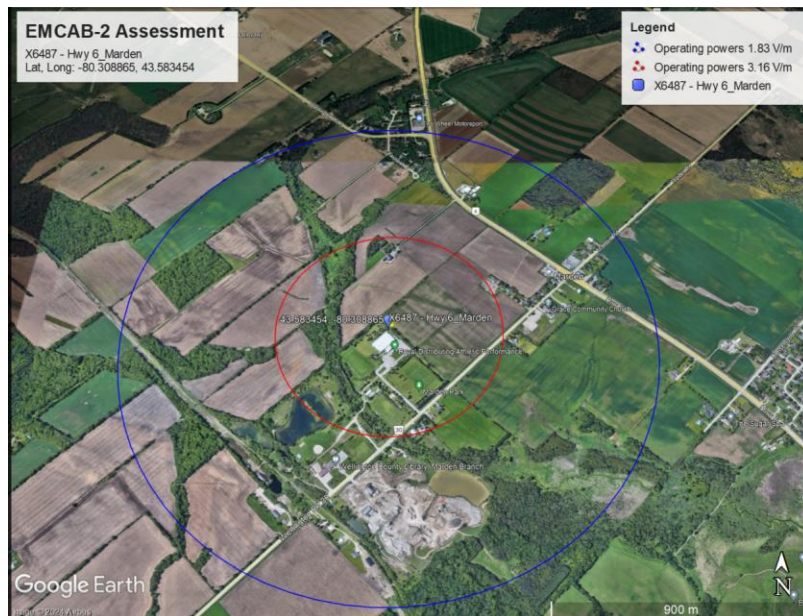


Figure 1 – Map showing EMCAB-2 calculated fields using proposed operating powers @ X6487 Bell Mobility site.

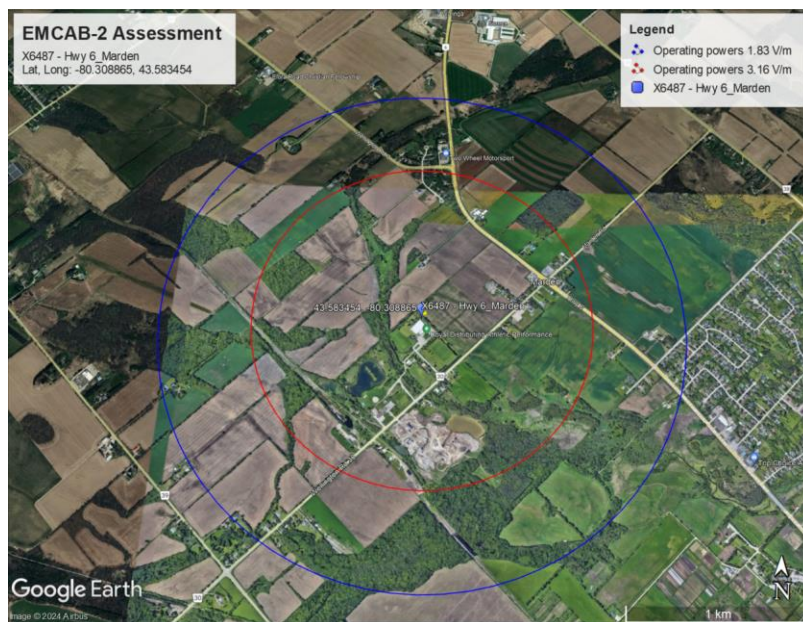


Figure 2 – Map showing EMCAB-2 calculated fields using maximal radio powers @ X6487 Bell Mobility site.

If you have any questions regarding this assessment, please don't hesitate to contact me.

Yours sincerely,

Joseph Sadoun, Eng.  
(OIQ# - 120286 – 14-06-2024)  
YRH Inc.