



REC Networks
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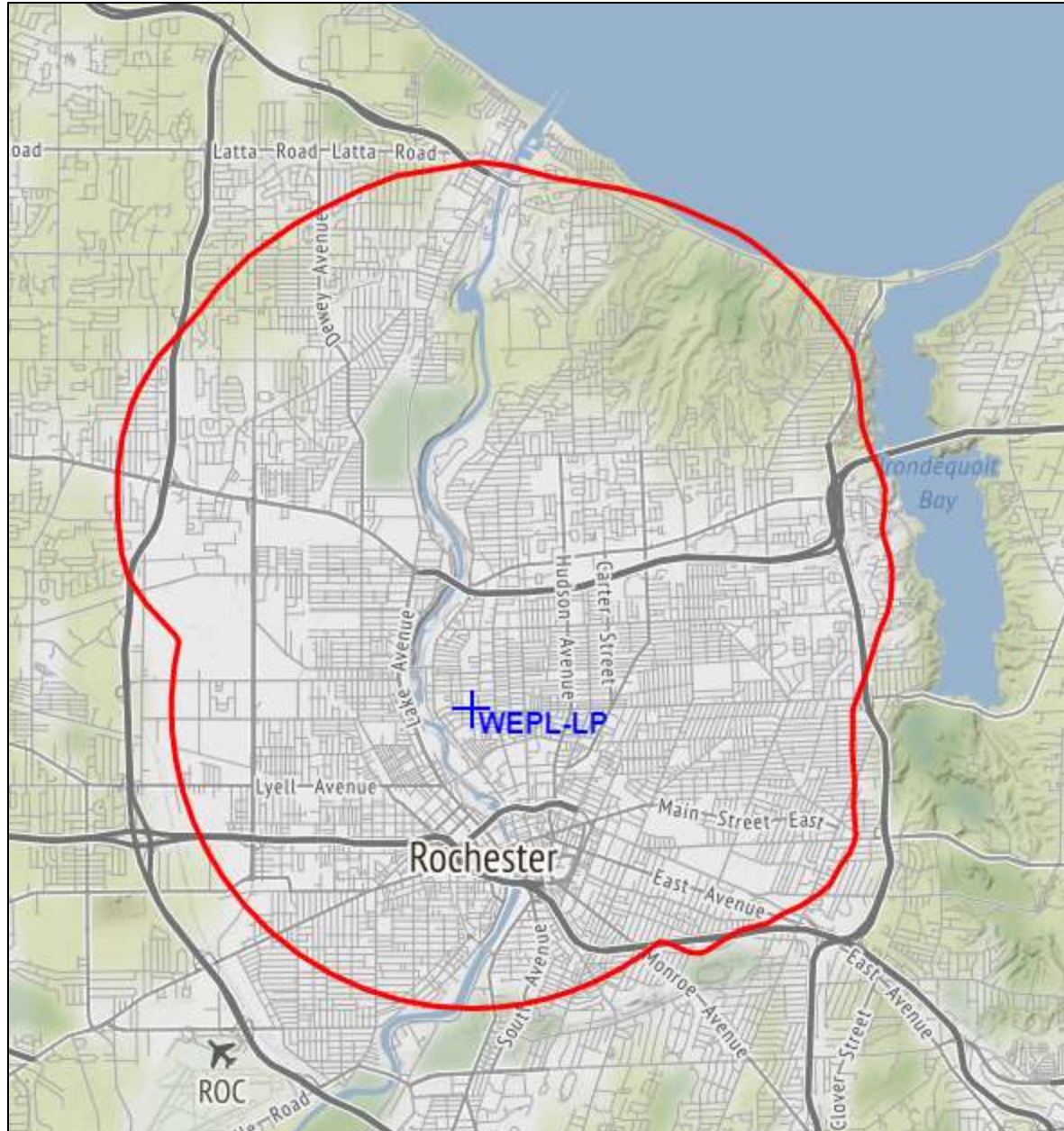
Minor modification for WEPL-LP

ROCHESTER, NY

IBERO-AMERICAN ACTION LEAGUE

BLL-20151223BGA

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



ROCHESTER, NY – Channel 246L1 (97.1 MHz) ~ ERP 0.047 kW

Elev: 148 meters ~ RCAGL: 32 meters ~ RCAMSL: 180 meters ~ HAAT: 44 meters (GLOBE)

Overall tower height: 38 meters – ASR: not applicable (no change in antenna structure)

NAD27 Latitude: 43° 10' 30.90" NL – Longitude: 77° 37' 06.15" WL

NAD83 Latitude: 43° 10' 31.12" NL – Longitude: 77° 37' 05.14" WL

Site: WEPL-LP
 Coordinates: 43-10-30.9 N, 77-37-06.2 W
 Freq: 97.10000 MHz
 ERP: 47.00 W

Bearing	ERP W	HAAT	DH	Distance	Lat	Lon
0	47.00	95	0	8.32	43.250066	-77.618389
5	47.00	94	0	8.27	43.249350	-77.609488
10	47.00	92	0	8.17	43.247626	-77.600868
15	47.00	92	0	8.17	43.246236	-77.592275
20	47.00	94	0	8.27	43.245143	-77.583463
25	47.00	94	0	8.27	43.242657	-77.575235
30	47.00	94	0	8.27	43.239657	-77.567336
35	47.00	93	0	8.22	43.235813	-77.560167
40	47.00	91	0	8.12	43.231173	-77.553964
45	47.00	88	0	7.97	43.225912	-77.548832
50	47.00	83	0	7.74	43.219993	-77.545179
55	47.00	75	20	7.35	43.213139	-77.544095
60	47.00	72	30	7.19	43.207568	-77.541529
65	47.00	68	40	6.98	43.201760	-77.540321
70	47.00	64	50	6.79	43.196126	-77.539610
75	47.00	60	60	6.60	43.190580	-77.539777
80	47.00	55	30	6.32	43.185100	-77.541576
85	47.00	51	20	6.07	43.179985	-77.543791
90	47.00	47	10	5.83	43.175227	-77.546447
95	47.00	47	20	5.83	43.170655	-77.546726
100	47.00	48	10	5.89	43.166030	-77.546871
105	47.00	50	10	6.00	43.161253	-77.546890
110	47.00	53	30	6.21	43.156136	-77.546485
115	47.00	52	40	6.14	43.151898	-77.549805
120	47.00	49	60	5.95	43.148492	-77.554906
125	47.00	43	90	5.58	43.146470	-77.562081
130	47.00	39	100	5.30	43.144603	-77.568349
135	47.00	37	110	5.15	43.142474	-77.573482
140	47.00	30	90	4.66	43.143115	-77.581441
145	47.00	20	150	4.66	43.140889	-77.585420
150	47.00	15	180	4.66	43.138924	-77.589650
155	47.00	8	200	4.66	43.137236	-77.594099
160	47.00	4	280	4.66	43.135837	-77.598732
165	47.00	5	300	4.66	43.134737	-77.603514
170	47.00	6	90	4.66	43.133946	-77.608409
175	47.00	7	230	4.66	43.133468	-77.613380
180	47.00	5	120	4.66	43.133309	-77.618389
185	47.00	8	190	4.66	43.133468	-77.623398
190	47.00	8	90	4.66	43.133946	-77.628369
195	47.00	8	150	4.66	43.134737	-77.633264
200	47.00	10	80	4.66	43.135837	-77.638046
205	47.00	12	20	4.66	43.137236	-77.642679
210	47.00	15	80	4.66	43.138924	-77.647127
215	47.00	15	160	4.66	43.140889	-77.651358
220	47.00	15	190	4.66	43.143115	-77.655337
225	47.00	15	140	4.66	43.145586	-77.659036
230	47.00	14	160	4.66	43.148282	-77.662426
235	47.00	11	130	4.66	43.151184	-77.665481
240	47.00	10	130	4.66	43.154269	-77.668178
245	47.00	10	90	4.66	43.157513	-77.670497
250	47.00	8	90	4.66	43.160893	-77.672419
255	47.00	7	60	4.66	43.164381	-77.673931
260	47.00	7	30	4.66	43.167953	-77.675020
265	47.00	7	20	4.66	43.171580	-77.675678
270	47.00	10	20	4.66	43.175236	-77.675900
275	47.00	18	40	4.66	43.178891	-77.675685
280	47.00	26	30	4.66	43.182519	-77.675033
285	47.00	32	30	4.80	43.186403	-77.675547
290	47.00	40	20	5.37	43.191750	-77.680631
295	47.00	48	30	5.89	43.197616	-77.684240
300	47.00	55	50	6.32	43.203666	-77.685957
305	47.00	61	40	6.65	43.209543	-77.685622
310	47.00	66	30	6.89	43.215055	-77.683510
315	47.00	70	30	7.09	43.220307	-77.680241
320	47.00	73	20	7.25	43.225155	-77.675873
325	47.00	77	20	7.45	43.230143	-77.671154
330	47.00	81	10	7.65	43.234806	-77.665592
335	47.00	84	10	7.79	43.238753	-77.659041
340	47.00	86	0	7.88	43.241864	-77.651674
345	47.00	89	0	8.01	43.244872	-77.644000
350	47.00	92	0	8.17	43.247626	-77.635909
355	47.00	93	0	8.22	43.248920	-77.627238

R E C NETWORKS
CHANNEL REPORT

NAD27 LATITUDE: 43 - 10' 30.9" - LONGITUDE: 77 - 37' 06.2"
CHANNEL: 246 - CLASS: LPFM(LP-100)

CHAN	FREQ	CALL	LOCATION	CLS	DIST	REQ	CLEAR	BEAR
243	96.5	CJBC3F	PENETANGUISHENE	ON B	260.0	66.0	194.0	313.8
:								
244	96.7	WCIO	OSWEGO	NY A	105.6	29.0	76.6	70.5
:		FAMILY LIFE MINISTRIES, INC.						
244	96.7		PETERBOROUGH	ON C1	139.3	89.0	50.3	337.0
:								
244	96.7	NEW	PETERBOROUGH	ON B	143.3	68.0	75.3	333.3
:								
244	96.7	NEW	PETERBOROUGH	ON B	145.0	68.0	77.0	331.3
:								
244	96.7	NEW	PETERBOROUGH	ON B	142.9	68.0	74.9	336.4
:								
244	96.7	NEW	PETERBOROUGH	ON B	139.3	68.0	71.3	337.1
:								
245	96.9	WGRF	BUFFALO	NY B	105.4	97.0	8.4	256.8
:		RADIO LICENSE HOLDING CBC, LLC						
246	97.1	CIGLFM	BELLEVILLE	ON B	115.0	92.0	23.0	8.5
:								
246	97.1	WZHD	CANASERAGA	NY A	86.0	67.0	19.0	182.2
:		EQUINOX BROADCASTING CORP						
246	97.1	WEPL-LP	ROCHESTER	NY L1	0.0	24.0	-24.0	216.0
:		IBERO AMERICAN ACTION LEAGUE						
247	97.3	CIEZFM	TORONTO	ON C1	152.4	98.0	54.4	290.5
:								
247	97.3	CIEZFM	TORONTO	ON B	152.4	76.0	76.4	290.5
:								
247	97.3	WYXL	ITHACA	NY B	128.8	97.0	31.8	127.4
:		SAGA COMMUNICATIONS OF NEW ENGLAND, LLC						
248	97.5	W248BC	DANSVILLE	NY D5	73.8	14.0	59.8	180.9
:		CALVARY CHAPEL OF THE FINGER LAKES, INC.						
248	97.5	W248AT	CORFU	NY D2	66.3	8.0	58.3	252.0
:		CALVARY CHAPEL OF THE FINGER LAKES, INC.						
248	97.5	W248BH	ROCHESTER	NY D7	2.6	21.0	-18.4	154.1
:		GENESEE MEDIA CORPORATION						
249	97.7			C1	241.3	88.0	153.3	307.8
:								
249	97.7			C	271.7	98.0	173.7	332.5
:								
249	97.7			C1	216.8	88.0	128.8	315.4
:								

249	97.7	NEW	BRACEBRIDGE	ON C	244.2	98.0	146.2	328.8
:								
249	97.7	NEW	HUNTSVILLE	ON C	271.7	98.0	173.7	332.5
:								
249	97.7	NEW	HUNTSVILLE	ON C	262.4	98.0	164.4	336.3
:								
249	97.7	CHTZFM	ST CATHARINES	ON B	134.1	66.0	68.1	266.8
:								
249	97.7			C1	250.1	88.0	162.1	328.1
:								
249	97.7			C1	273.2	88.0	185.2	323.0
:								
249	97.7		BARRIE	ON B	222.9	66.0	156.9	313.3
:								
249	97.7		HUNTSVILLE	ON C	271.7	98.0	173.7	332.5
:								
249	97.7			C	271.7	98.0	173.7	332.5
:								
249	97.7			C1	212.5	88.0	124.5	352.5
:								

LPFM SECOND ADJACENT CHANNEL WAIVER STUDY
WAIVER REQUEST §73.807(a)

WEPL-LP
Rochester, NY
Channel 246L1 (97.1 MHz)

The instant application is requesting an adjustment in effective radiated power (ERP) based on a corrected measurement of 44 meters height above average terrain (HAAT) using Commission-accepted 1 km GLOBE terrain data. As WEPL-LP currently does not meet the §73.807(c) minimum distance separation requirements in respect to second-adjacent channel translator W248BH, Rochester, New York (Facility ID # 150641), the interfering contour from WEPL-LP towards W248BH would slightly increase as a result of this ERP adjustment.

W248BH is operating 250 watts ERP into a directional antenna. W248BH places a 90.5 dBu service contour at the WEPL-LP antenna site.

In accordance with §73.811(a) of the Commission's Rules, an LPFM station at 44 meters HAAT would be able to operate a maximum of 47 watts ERP in order to maintain a service contour of 5.6 km.

Using the U/D method¹, the proposed LPFM station is predicted to produce an undesired interference overlap in respect to W248BH to the proposed LPFM station's 130.5 dBu interfering contour ("overlap zone"). At 47 watts ERP, the overlap zone extends to 14 meters from the radiation center.

The existing site is adjacent to a two-story structure in which the highest occupied point is 5 meters above ground level. As the radiation center of the existing 4-bay PSI FML-4 antenna is 32 meters above ground level, the 130.5 dBu interfering contour will reach no point lower than 18 meters above ground level. There are no nearby taller structures of 4-lane highways within 14 meters of the radiation center.

Based on a study performed by Michelle Bradley of REC Networks, it has been determined that this proposed site qualifies for a second adjacent waiver as specified in Section 73.807(e) of the Commission's Rules.

§73.807(e)(1) of the Commission's Rules states that the Commission will entertain second-adjacent channel separations on a case-by-case basis. In each case, the LPFM station must establish, using methods of predicting interference [...] that its proposed operations will not result in interference to any authorized [second-adjacent channel] radio service.

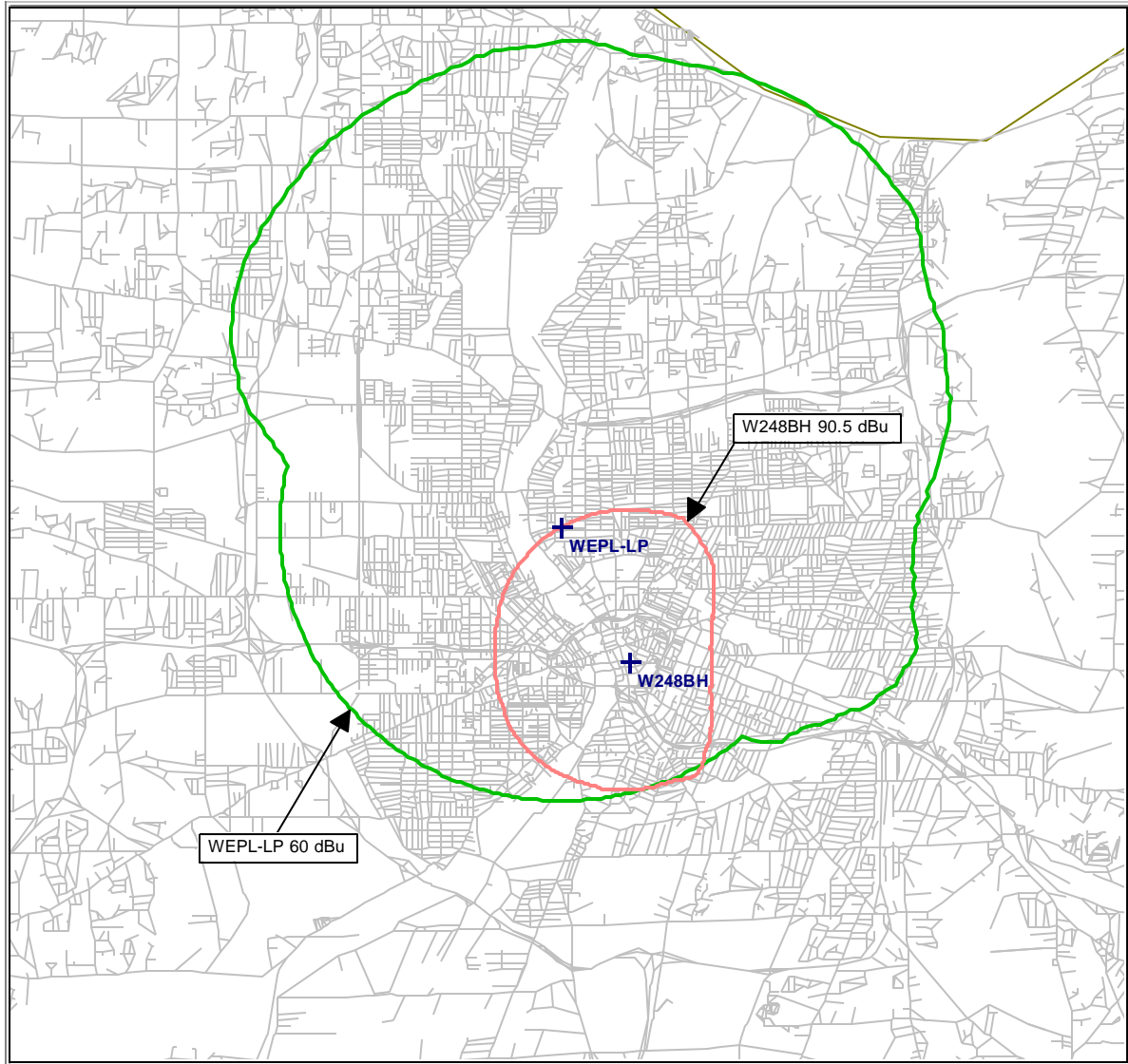
In the instant case, the 130.5 dBu interfering contour of a proposed WEPL-LP operation at an increased ERP of 0.047 kW will not reach any listener or potential listener of W248BH.

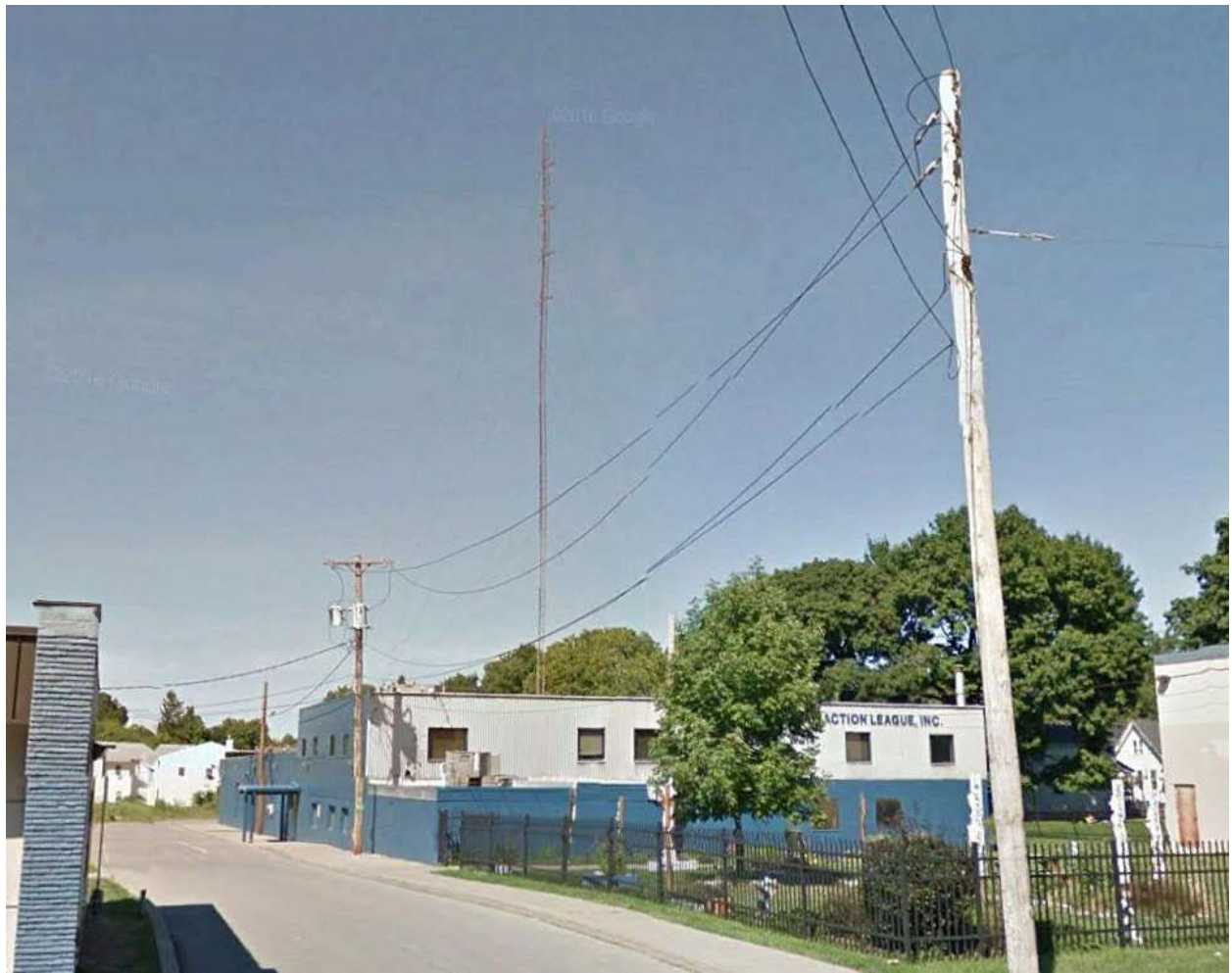
¹ - See *Living Way Ministries, Inc.* Memorandum Opinion and Order, 17 FCC Rcd 17054, 17056 (2002) at 5. *Recon denied* 23 FCC Rcd 15070 (2008).

The applicant requests a waiver of §73.807(c) of the Commission's Rules in respect to W248BH, Rochester, New York.

Report completed by
Michelle Bradley
Founder, REC Networks
November 7, 2017

WEPL-LP & W248BH





APPLICANT IS REQUESTING THE USE OF GLOBE TERRAIN DATA

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude **43° 10' 30.9" North**
Longitude **77° 37' 6.2" (NAD 27)**

These coordinates convert to NAD 83 coordinates of
43° 10' 31.12", North, 77° 37' 05.21" West (NAD 83).

Height of antenna radiation center above mean sea level: **180 meters AMSL**

Number of Evenly Spaced Radials = **8** 0° is referenced to True North

Results

Calculated HAAT = **44 meters**

Antenna Height Above Average Terrain calculated
using 1 km **GLOBE terrain data**

Individual "Radial HAAT" Values, in meters

0°	93.3 m
45°	88.6 m
90°	41.9 m
135°	31.8 m
180°	6.6 m
225°	9.0 m
270°	7.6 m
315°	73.7 m

34 dBu INTERFERING CONTOUR DOES NOT REACH CANADIAN SOIL

