

Channel Study

REFERENCE		CH# 206A - 89.1 MHz, Pwr= 1.9 kW DA, HAAT= 35.8 M, COR= 270 M								DISPLAY DATES	
42 19 01.0 N.		Average Protected F(50-50)= 12.8 km								DATA 02-28-12	
88 06 24.0 W.		Standard Directional								SEARCH 02-28-12	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
206A Round Lake Beach	WZKO	CP	DVX IL	0.0 0.0	0.0 BNPED20071017ACR	42 19 01.0 88 06 24.0	1.900 34	34.0 271	9.8 Educational Media Foundati	-43.7* -43.4*	
205A Lake Forest	WMXM	LIC	C IL	108.0 288.2	24.1 BLED20100322ABP	42 14 59.0 87 49 44.0	0.295 29	10.6 233	7.4 Lake Forest College	1.8 1.8	0.2 0.2
206A Naperville	WONC	LIC	CN IL	186.9 6.9	60.5 BLED19940809KC	41 46 34.0 88 11 41.0	1.500 50	48.9 264	13.3 North Central College	0.4 0.4	13.8 13.8
206A Burlington	WBSD	LIC	CX WI	341.1 161.0	41.6 BLED20020830ADH	42 40 14.0 88 16 18.0	0.210 28	25.8 267	6.8 Burlington Area School Dis	7.1 7.1	1.1 1.1
203B1 Antioch	WSFI	CP	DCX IL	337.5 157.4	20.0 BNPED20071022BJE	42 28 58.0 88 12 00.0	8.400 100	1.1 343	14.1 Bvm Helping Hands	8.8 8.8	4.4 4.4
205A Elgin	WEPS	LIC	CX IL	204.2 24.1	34.2 BLED20111221ADC	42 02 11.0 88 16 34.0	0.740 13	13.2 261	9.4 Board Of Education School	8.6 8.6	6.9 6.9
207B1 Evanston	WNUR-FM	LIC	CN IL	129.4 309.7	46.1 BLED1609	42 03 12.0 87 40 33.0	7.200 30	24.6 218	16.6 Northwestern University	10.5 10.5	12.7 12.7
205B1 Harvard	WCNM	CP	DCX IL	284.0 103.7	42.6 BMPED20090824ALT	42 24 30.0 88 36 32.0	7.300 52	15.0 332	10.5 Marian Central Catholic Hi	13.9 13.9	10.9 10.9
260L1 Antioch	WFEL-LP«	LIC	IL	359.9 179.9	19.3 BLL20041213AAG	42 29 25.0 88 06 25.0	0.049 43	0.0 280	0.0 Faith Evangelical Lutheran	5.5R 5.5R	13.8M 13.8M
203A Glenview	WGBK	LIC	DC IL	135.3 315.5	32.2 BLED19990913AAD	42 06 39.0 87 49 56.0	0.185 32	0.3 226	3.9 Glenbrook High School Dist	21.2 21.2	26.2 26.2
206B1 Freeport	WNIE	LIC	DCN IL	270.3 89.3	122.6 BLED19990528KA	42 18 45.0 89 35 38.0	6.000 110	87.8 368	30.0 Northern Illinois Universi	21.4 21.4	43.4 43.4
205B1 Milwaukee	WYMS	LIC	CX WI	11.2 191.3	87.6 BLED20060630AGJ	43 05 26.0 87 53 50.0	1.450 289	50.2 484	33.4 Milwaukee Board Of School	25.4 25.4	38.2 38.2
208B Dekalb	WNIJ	LIC	DCN IL	245.9 65.3	81.2 BLED19891011KA	42 00 55.0 89 00 07.0	50.000 128	5.7 380	50.2 Northern Illinois Universi	62.0 62.0	29.1 29.1
205A River Grove	WRRG	LIC	DCN IL	153.4 333.6	49.9 BLED19860926KC	41 54 56.0 87 50 12.0	0.100 39	8.3 234	5.5 Triton College	31.2 31.2	29.8 29.8
203A South Elgin	WSEH	CP	DCX IL	210.3 30.1	45.2 BNPED20071022BPK	41 57 55.0 88 22 58.0	0.670 45	1.6 296	12.4 St. Edward Central Catholi	31.1 31.1	31.2 31.2
209B Milwaukee	WUWM	LIC	CX WI	11.2 191.3	87.6 BLED20060419ACI	43 05 26.0 87 53 50.0	13.500 289	5.5 484	52.0 Board Of Regents, Universi	70.2 70.2	34.1 34.1
204A Elmhurst	WRSE	LIC	DCX IL	164.1 344.2	48.6 BLED20080812ACW	41 53 46.0 87 56 45.0	0.320 29	0.7 236	5.5 Bd. Of Trustees, Elmhurst	38.2 38.2	41.5 41.5
204A Chicago	WLWU	LIC	CN IL	133.5 313.8	50.9 BLED19840904CR	42 00 04.0 87 39 36.0	0.100 70	0.7 253	8.4 Loyola University Of Chica	39.4 39.4	40.8 40.8
260L1 Racine	548376«	APP	WI	30.5 210.7	49.1 BNPL20010122AGC	42 41 50.0 87 48 05.0	0.100 27	0.0 220	0.0 Racine Family Radio, Inc.	5.5R 5.5R	43.6M 43.6M
205A Summit	WARG	LIC	DEN IL	157.4 337.6	65.0 BLED19851106KC	41 46 36.0 87 48 17.0	0.500 25	5.8 218	4.2 Community High School Dist	49.0 49.0	47.2 47.2
206A Lowell	WLPR-FM	LIC	CX IN	150.4 330.9	126.8 BLED20060420AAX	41 19 24.0 87 21 22.0	2.400 77	66.6 288	19.6 Northwest Indiana Public B	49.6 49.6	72.4 72.4

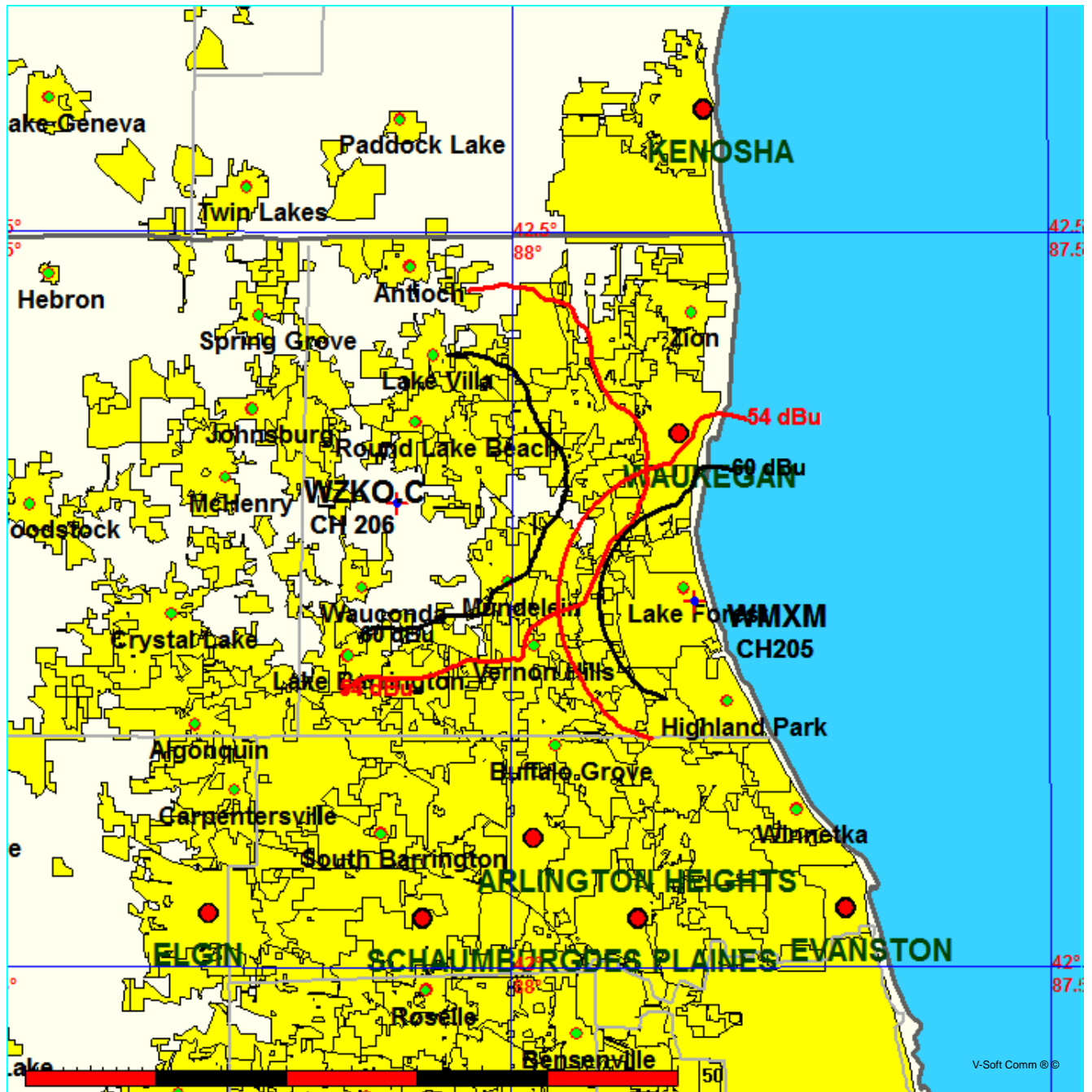
Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference Zone= Zone 1, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
***affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.

EXHIBIT 18 - A
Educational Media Foundation

FMCommander Single Allocation Study - 02-28-2012 - NGDC 30 SEC
WZKO.C's Overlaps (In= 1.8 km, Out= 0.22 km)

WZKO.C CH 206 A DA
Lat= 42 19 01.0, Lng= 88 06 24.0
1.9 kW 35.8 M HAAT, 270 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WMXM CH 205 A BLED20100322ABP
Lat= 42 14 59.0, Lng= 87 49 44.0
0.295 kW 29 M HAAT, 233 M COR
Prot.= 60 dBu, Intef.= 54 dBu



WZKO AND WMXM

02-28-2012 Terrain Data: NGDC 30 SEC FMOver Analysis

WMXM BLED20100322ABP

WZKO.C

Channel = 205A
Max ERP = 0.295 kW
RCAMSL = 233 M
N. Lat. 42 14 59.0
W. Lng. 87 49 44.0
Protected
60 dBu

Channel = 206A
Max ERP = 1.9 kW
RCAMSL = 270 M
N. Lat. 42 19 01.0
W. Lng. 88 06 24.0
Interfering
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)	I X (km)
267.0	000.2950	0022.1	007.4	116.8	000.7186	0044.7	017.4	53.05	
268.0	000.2950	0021.5	007.4	116.5	000.7186	0044.7	017.3	53.10	
269.0	000.2950	0020.9	007.4	116.1	000.7186	0044.6	017.2	53.14	
270.0	000.2950	0020.3	007.4	115.7	000.7186	0044.6	017.2	53.18	
271.0	000.2950	0020.2	007.4	115.3	000.7186	0044.5	017.1	53.21	
272.0	000.2950	0020.2	007.4	114.9	000.7186	0044.4	017.1	53.25	
273.0	000.2950	0020.2	007.4	114.5	000.7186	0044.4	017.0	53.28	
274.0	000.2950	0020.2	007.4	114.1	000.7186	0044.4	017.0	53.32	
275.0	000.2950	0020.2	007.4	113.7	000.7186	0044.4	016.9	53.36	
276.0	000.2950	0020.2	007.4	113.3	000.7186	0044.4	016.9	53.40	
277.0	000.2950	0020.1	007.4	112.9	000.7186	0044.5	016.9	53.44	
278.0	000.2950	0020.4	007.4	112.4	000.7186	0044.5	016.8	53.48	
279.0	000.2950	0020.8	007.4	112.0	000.7186	0044.6	016.8	53.52	
280.0	000.2950	0021.2	007.4	111.6	000.7186	0044.6	016.8	53.56	
281.0	000.2950	0021.6	007.4	111.2	000.7186	0044.7	016.7	53.59	
282.0	000.2950	0021.7	007.4	110.7	000.7186	0044.7	016.7	53.61	
283.0	000.2950	0021.8	007.4	110.3	000.7186	0044.7	016.7	53.63	
284.0	000.2950	0021.9	007.4	109.8	000.7186	0044.8	016.7	53.65	
285.0	000.2950	0021.8	007.4	109.4	000.7186	0044.8	016.7	53.67	
286.0	000.2950	0021.6	007.4	109.0	000.7186	0044.8	016.7	53.68	
287.0	000.2950	0021.5	007.4	108.5	000.7186	0044.9	016.7	53.70	
288.0	000.2950	0021.4	007.4	108.1	000.7186	0044.9	016.7	53.71	
289.0	000.2950	0021.5	007.4	107.6	000.7186	0045.0	016.7	53.72	
290.0	000.2950	0021.6	007.4	107.2	000.7186	0045.0	016.7	53.72	
291.0	000.2950	0021.7	007.4	106.7	000.7186	0045.1	016.7	53.73	
292.0	000.2950	0021.9	007.4	106.3	000.7186	0045.1	016.7	53.72	
293.0	000.2950	0022.5	007.4	105.9	000.7186	0045.1	016.7	53.71	
294.0	000.2950	0023.2	007.4	105.4	000.7186	0045.1	016.7	53.70	
295.0	000.2950	0023.8	007.4	105.0	000.7186	0045.2	016.7	53.70	
296.0	000.2950	0024.2	007.4	104.6	000.7186	0045.2	016.8	53.69	
297.0	000.2950	0024.5	007.4	104.1	000.7186	0045.3	016.8	53.69	
298.0	000.2950	0024.5	007.4	103.7	000.7186	0045.4	016.8	53.67	
299.0	000.2950	0024.6	007.4	103.3	000.7186	0045.4	016.9	53.66	
300.0	000.2950	0024.4	007.4	102.9	000.7186	0045.5	016.9	53.64	
301.0	000.2950	0024.1	007.4	102.4	000.7186	0045.6	016.9	53.62	
302.0	000.2950	0023.8	007.4	102.0	000.7186	0045.7	017.0	53.60	
303.0	000.2950	0023.7	007.4	101.6	000.7186	0045.8	017.0	53.58	
304.0	000.2950	0023.7	007.4	101.2	000.7186	0045.9	017.1	53.57	
305.0	000.2950	0023.7	007.4	100.8	000.7186	0046.0	017.1	53.55	
306.0	000.2950	0023.4	007.4	100.4	000.7186	0046.1	017.2	53.53	
307.0	000.2950	0023.0	007.4	100.0	000.7186	0046.3	017.2	53.51	

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Exhibit 18-A1
Round Lake Beach, IL

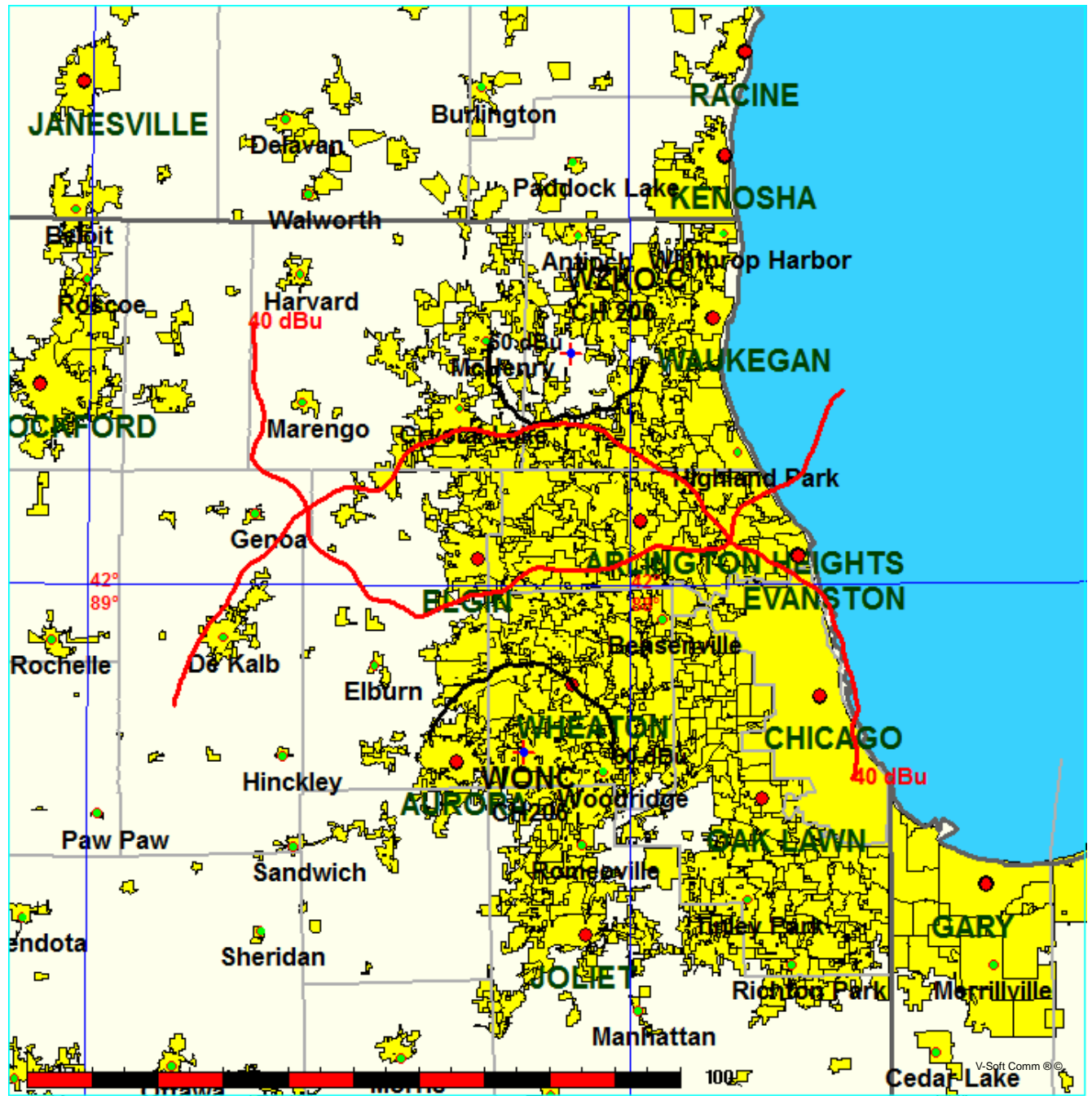
308.0	000.2950	0022.8	007.4	099.7	000.7315	0046.3	017.3	53.55
309.0	000.2950	0022.9	007.4	099.3	000.7456	0046.4	017.3	53.59
310.0	000.2950	0022.9	007.4	098.9	000.7597	0046.5	017.4	53.63
311.0	000.2950	0022.7	007.4	098.6	000.7737	0046.6	017.5	53.67
312.0	000.2950	0022.2	007.4	098.2	000.7874	0046.6	017.5	53.71
313.0	000.2950	0021.9	007.4	097.9	000.8011	0046.7	017.6	53.73
314.0	000.2950	0021.6	007.4	097.5	000.8146	0046.8	017.7	53.75
315.0	000.2950	0021.3	007.4	097.2	000.8279	0046.8	017.8	53.76
316.0	000.2950	0021.0	007.4	096.9	000.8410	0046.9	017.9	53.78
317.0	000.2950	0020.6	007.4	096.5	000.8540	0047.0	017.9	53.79
318.0	000.2950	0020.1	007.4	096.2	000.8666	0047.1	018.0	53.81
319.0	000.2950	0019.6	007.4	095.9	000.8791	0047.2	018.1	53.81
320.0	000.2950	0019.3	007.4	095.6	000.8914	0047.2	018.2	53.81
321.0	000.2950	0019.1	007.4	095.3	000.9034	0047.2	018.3	53.80
322.0	000.2950	0018.9	007.4	095.1	000.9152	0047.2	018.4	53.77
323.0	000.2950	0018.7	007.4	094.8	000.9266	0047.2	018.5	53.74
324.0	000.2950	0018.6	007.4	094.5	000.9378	0047.1	018.6	53.69
325.0	000.2950	0018.6	007.4	094.3	000.9488	0047.0	018.7	53.64
326.0	000.2950	0018.8	007.4	094.0	000.9595	0046.9	018.8	53.59
327.0	000.2950	0019.1	007.4	093.8	000.9698	0046.8	018.9	53.53
328.0	000.2950	0019.5	007.4	093.6	000.9799	0046.8	019.0	53.48
329.0	000.2950	0019.9	007.4	093.3	000.9897	0046.7	019.1	53.41
330.0	000.2950	0020.3	007.4	093.1	000.9992	0046.5	019.2	53.34
331.0	000.2950	0020.7	007.4	092.9	001.0083	0046.4	019.3	53.27
332.0	000.2950	0020.9	007.4	092.7	001.0172	0046.3	019.4	53.19
333.0	000.2950	0020.8	007.4	092.5	001.0257	0046.2	019.5	53.11
334.0	000.2950	0020.2	007.4	092.3	001.0340	0046.1	019.6	53.04

EXHIBIT 18 - B
Educational Media Foundation

FMCommander Single Allocation Study - 02-28-2012 - NGDC 30 SEC
WZKO.C's Overlaps (In= 0.41 km, Out= 13.81 km)

WZKO.C CH 206 A DA
Lat= 42 19 01.0, Lng= 88 06 24.0
1.9 kW 35.8 M HAAT, 270 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WONC CH 206 A BLED19940809KC
Lat= 41 46 34.0, Lng= 88 11 41.0
1.5 kW 50 M HAAT, 264 M COR
Prot.= 60 dBu, Intef.= 40 dBu



WZKO AND WONC

02-28-2012 Terrain Data: NGDC 30 SEC FMOver Analysis

WZKO. C

WONC BLED19940809KC

Channel = 206A
Max ERP = 1.9 kW
RCAMSL = 270 M
N. Lat. 42 19 01.0
W. Lng. 88 06 24.0
Protected
60 dBu

Channel = 206A
Max ERP = 1.5 kW
RCAMSL = 264 M
N. Lat. 41 46 34.0
W. Lng. 88 11 41.0
Interfering
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)	I X (km)
144.0	000.7186	0038.7	010.5	014.6	001.5000	0043.7	053.3	39.03	
145.0	000.7186	0038.0	010.4	014.3	001.5000	0043.8	053.2	39.06	
146.0	000.7186	0037.4	010.4	014.2	001.5000	0043.8	053.2	39.10	
147.0	000.7186	0036.8	010.3	014.0	001.5000	0043.9	053.1	39.13	
148.0	000.7186	0036.1	010.2	013.8	001.5000	0043.9	053.0	39.15	
149.0	000.7186	0035.2	010.1	013.5	001.5000	0044.0	053.0	39.16	
150.0	000.7186	0034.3	009.9	013.3	001.5000	0044.0	052.9	39.17	
151.0	000.7205	0033.6	009.8	013.1	001.5000	0044.0	052.9	39.19	
152.0	000.7224	0032.8	009.8	012.9	001.5000	0044.0	052.9	39.20	
153.0	000.7242	0032.0	009.6	012.7	001.5000	0044.0	052.8	39.20	
154.0	000.7261	0031.1	009.5	012.5	001.5000	0043.9	052.8	39.21	
155.0	000.7280	0030.2	009.4	012.2	001.5000	0043.9	052.8	39.21	
156.0	000.7299	0029.2	009.4	012.1	001.5000	0043.9	052.7	39.23	
157.0	000.7318	0028.0	009.4	011.9	001.5000	0043.9	052.6	39.25	
158.0	000.7337	0026.7	009.4	011.8	001.5000	0043.9	052.5	39.27	
159.0	000.7356	0025.4	009.4	011.7	001.5000	0043.9	052.4	39.30	
160.0	000.7374	0024.3	009.4	011.5	001.5000	0043.9	052.3	39.32	
161.0	000.7439	0023.1	009.4	011.4	001.5000	0043.9	052.2	39.35	
162.0	000.7503	0021.7	009.5	011.2	001.5000	0043.8	052.1	39.38	
163.0	000.7567	0020.3	009.5	011.1	001.5000	0043.8	052.0	39.40	
164.0	000.7632	0019.0	009.5	010.9	001.5000	0043.9	051.9	39.43	
165.0	000.7698	0018.0	009.5	010.8	001.5000	0043.9	051.9	39.45	
166.0	000.7763	0017.3	009.5	010.6	001.5000	0043.9	051.8	39.48	
167.0	000.7829	0016.9	009.6	010.5	001.5000	0043.9	051.7	39.50	
168.0	000.7895	0016.4	009.6	010.3	001.5000	0043.9	051.6	39.52	
169.0	000.7961	0015.8	009.6	010.1	001.5000	0043.8	051.5	39.54	
170.0	000.8027	0015.2	009.6	010.0	001.5000	0043.8	051.4	39.56	
171.0	000.8015	0014.7	009.6	009.8	001.5000	0043.8	051.4	39.57	
172.0	000.8003	0014.3	009.6	009.6	001.5000	0043.8	051.3	39.58	
173.0	000.7990	0014.3	009.6	009.4	001.5000	0043.7	051.3	39.59	
174.0	000.7978	0014.6	009.6	009.3	001.5000	0043.7	051.2	39.60	
175.0	000.7966	0014.8	009.6	009.1	001.5000	0043.8	051.2	39.62	
176.0	000.7954	0015.4	009.6	008.9	001.5000	0043.8	051.2	39.63	
177.0	000.7941	0016.1	009.6	008.7	001.5000	0043.8	051.1	39.64	
178.0	000.7929	0016.8	009.6	008.5	001.5000	0043.8	051.1	39.65	
179.0	000.7917	0017.2	009.6	008.3	001.5000	0043.8	051.1	39.65	
180.0	000.7904	0017.6	009.6	008.2	001.5000	0043.8	051.1	39.66	
181.0	000.7895	0018.1	009.6	008.0	001.5000	0043.8	051.0	39.66	
182.0	000.7885	0019.0	009.6	007.8	001.5000	0043.8	051.0	39.67	
183.0	000.7875	0020.0	009.6	007.6	001.5000	0043.8	051.0	39.67	
184.0	000.7865	0021.7	009.6	007.4	001.5000	0043.8	051.0	39.67	

185.0	000.7856	0023.6	009.6	007.2	001.5000	0043.7	051.0	39.67
186.0	000.7846	0025.8	009.6	007.0	001.5000	0043.7	051.0	39.67
187.0	000.7836	0027.7	009.6	006.9	001.5000	0043.7	051.0	39.66
188.0	000.7826	0029.2	009.6	006.7	001.5000	0043.7	051.0	39.65
189.0	000.7816	0029.9	009.6	006.5	001.5000	0043.6	051.0	39.64
190.0	000.7807	0030.4	009.6	006.3	001.5000	0043.5	051.0	39.65
191.0	000.7890	0030.9	009.7	006.1	001.5000	0043.5	050.9	39.66
192.0	000.7973	0031.8	009.9	005.9	001.5000	0043.4	050.8	39.69
193.0	000.8057	0032.7	010.0	005.7	001.5000	0043.4	050.6	39.72
194.0	000.8142	0034.0	010.2	005.5	001.5000	0043.4	050.4	39.77
195.0	000.8226	0035.4	010.4	005.2	001.5000	0043.3	050.3	39.81
196.0	000.8312	0036.5	010.6	005.0	001.5000	0043.3	050.1	39.84
197.0	000.8397	0037.1	010.7	004.7	001.5000	0043.2	050.0	39.84
198.0	000.8483	0037.4	010.8	004.5	001.5000	0043.1	050.0	39.83
199.0	000.8570	0038.0	010.9	004.3	001.5000	0043.0	050.0	39.83
200.0	000.8657	0038.3	011.0	004.0	001.5000	0042.9	049.9	39.83
201.0	000.9112	0038.1	011.1	003.8	001.5000	0042.9	049.9	39.83
202.0	000.9578	0037.2	011.1	003.6	001.5000	0042.8	049.9	39.82
203.0	001.0056	0036.8	011.2	003.4	001.5000	0042.8	049.9	39.81
204.0	001.0545	0037.1	011.3	003.1	001.5000	0042.8	049.9	39.83
205.0	001.1047	0037.5	011.5	002.8	001.5000	0042.7	049.7	39.85
206.0	001.1560	0037.7	011.7	002.5	001.5000	0042.7	049.7	39.86
207.0	001.2084	0037.8	011.8	002.2	001.5000	0042.6	049.6	39.86
208.0	001.2620	0038.1	012.0	001.9	001.5000	0042.5	049.6	39.87
209.0	001.3168	0039.1	012.2	001.6	001.5000	0042.4	049.4	39.88
210.0	001.3728	0039.9	012.5	001.2	001.5000	0042.2	049.3	39.89
211.0	001.4216	0039.8	012.6	000.9	001.5000	0042.2	049.3	39.87
212.0	001.4714	0038.9	012.5	000.8	001.5000	0042.0	049.5	39.81
213.0	001.5219	0037.8	012.5	000.6	001.5000	0041.9	049.7	39.75
214.0	001.5734	0037.1	012.4	000.4	001.5000	0041.8	049.8	39.69
215.0	001.6257	0036.5	012.4	000.2	001.5000	0041.6	049.9	39.64
216.0	001.6788	0036.0	012.5	360.0	001.5000	0041.4	050.0	39.58
217.0	001.7328	0035.7	012.5	359.7	001.5000	0041.3	050.1	39.53
218.0	001.7877	0035.6	012.6	359.5	001.5000	0041.1	050.2	39.48
219.0	001.8434	0035.6	012.7	359.2	001.5000	0040.9	050.3	39.44
220.0	001.9000	0035.4	012.7	359.0	001.5000	0040.7	050.4	39.38
221.0	001.9000	0035.1	012.7	358.8	001.5000	0040.6	050.6	39.32
222.0	001.9000	0034.8	012.6	358.7	001.5000	0040.5	050.7	39.25
223.0	001.9000	0034.5	012.6	358.6	001.5000	0040.4	050.9	39.19
224.0	001.9000	0034.1	012.5	358.4	001.5000	0040.3	051.1	39.13
225.0	001.9000	0033.8	012.5	358.3	001.5000	0040.3	051.3	39.06
226.0	001.9000	0033.6	012.4	358.2	001.5000	0040.2	051.5	39.01

EXHIBIT 18 - C
Educational Media Foundation

FMCommander Single Allocation Study - 02-28-2012 - NGDC 30 SEC
WZKO.C's Overlaps (In= 7.07 km, Out= 1.11 km)

WZKO.C CH 206 A DA
Lat= 42 19 01.0, Lng= 88 06 24.0
1.9 kW 35.8 M HAAT, 270 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WBSD CH 206 A BLED20020830ADH
Lat= 42 40 14.0, Lng= 88 16 18.0
0.21 kW 28 M HAAT, 267 M COR
Prot.= 60 dBu, Intef.= 40 dBu

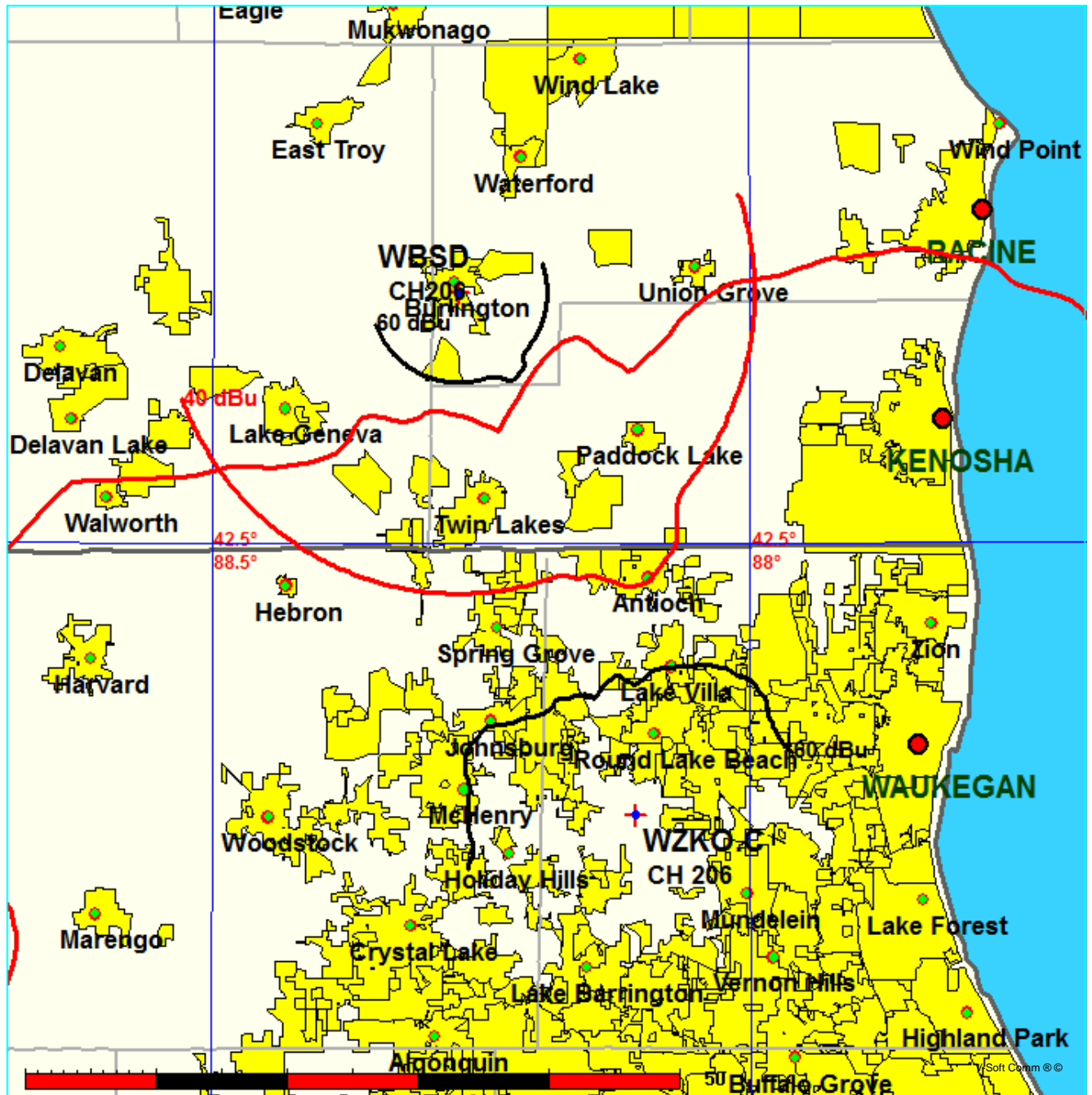


EXHIBIT 18 - D
Educational Media Foundation

FMCommander Single Allocation Study - 02-28-2012 - NGDC 30 SEC
WZKO.C's Overlaps (In= 8.81 km, Out= 4.38 km)

WZKO.C CH 206 A DA
Lat= 42 19 01.0, Lng= 88 06 24.0
1.9 kW 35.8 M HAAT, 270 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WSFI-C CH 203 B1 DA BNPED20071022BJE
Lat= 42 28 58.0, Lng= 88 12 00.0
8.4 kW 100 M HAAT, 343 M COR
Prot.= 60 dBu, Intef.= 100 dBu

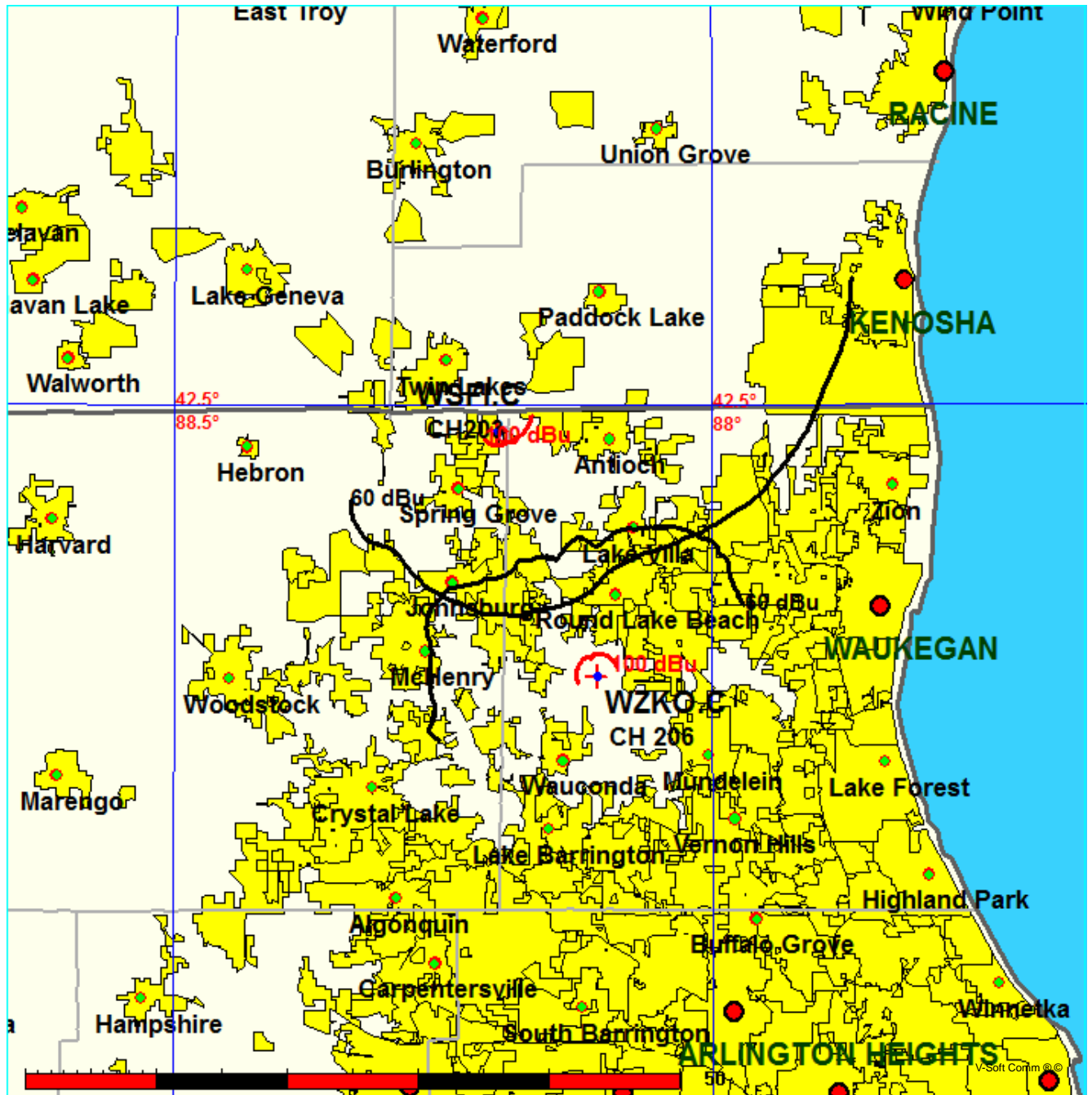


EXHIBIT 18 - E
Educational Media Foundation

FMCommander Single Allocation Study - 02-28-2012 - NGDC 30 SEC
WZKO.C's Overlaps (In= 8.58 km, Out= 6.87 km)

WZKO.C CH 206 A DA
Lat= 42 19 01.0, Lng= 88 06 24.0
1.9 kW 35.8 M HAAT, 270 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WEPS CH 205 A BLED20111221ADC
Lat= 42 02 11.0, Lng= 88 16 34.0
0.74 kW 13 M HAAT, 261 M COR
Prot.= 60 dBu, Intef.= 54 dBu

