

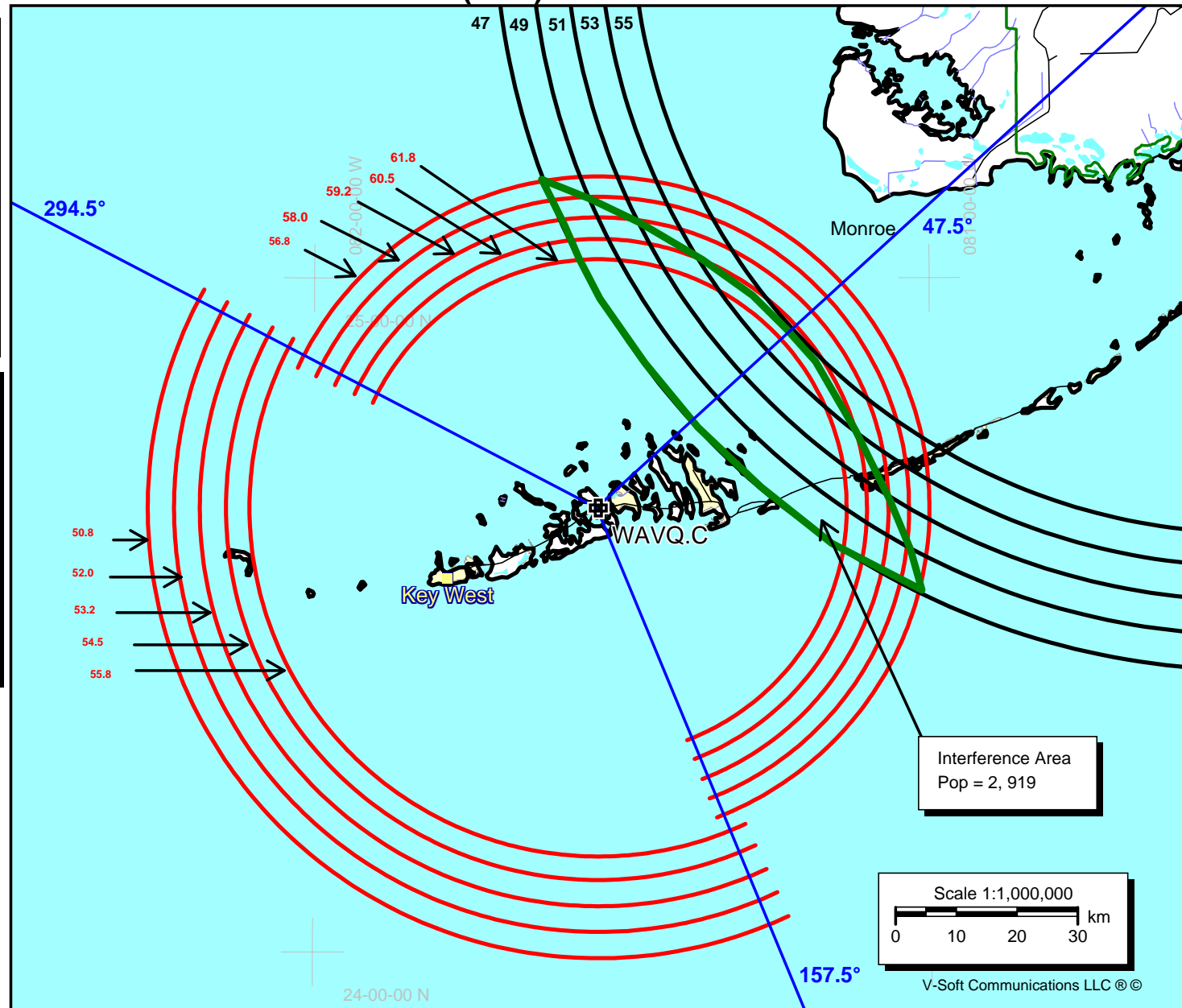
# WAVQ (New) v. WTVJ - Television Channel 6 Protection

WAVQ.C  
 Modified  
 Latitude: 24-39-34 N  
 Longitude: 081-32-19 W  
 Study ERP: 39.50 kW  
 37 kW H + 100 kW V/40  
 Channel: 202  
 Frequency: 88.3 MHz  
 AMSL Height: 83.0 m  
 Elevation: 0.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

WTVJ.C  
 BPCT19950918KE  
 Latitude: 25-32-24 N  
 Longitude: 080-28-07 W  
 ERP: 100.00 kW  
 Channel: 06Z  
 Frequency: 85.0 MHz  
 AMSL Height: 552.0 m  
 Elevation: 2.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: Yes  
 Elec Tilt: 1.0

February 11, 2004

**V**  
 Doug Vernier  
 721 West 1st Street, Suite A  
 Cedar Falls, Iowa 50613  
 Telecommunications Consultants



Doug Vernier Telecommunications Consultants

Ex #18, Pg #3

N. Lat. = 25 32 24 W. Lng. = 80 28 07

HAAT and Distance to Contour - FCC Method - 03 Arc. Sec.

WTVJ , Nbc Stations Management, Inc , BPCT19950918KE

Azi.	AV EL	HAAT	ERP kW	dBk	Field	47-F5	49-F5	51-F5	53-F5	55-F5
180	1.4	550.6	100.0000	20.00	1.000	124.60	118.80	113.15	107.54	102.08
190	1.5	550.5	100.0000	20.00	1.000	124.60	118.79	113.14	107.54	102.07
200	1.8	550.2	100.0000	20.00	1.000	124.58	118.78	113.12	107.52	102.06
210	2.1	549.9	100.0000	20.00	1.000	124.56	118.75	113.10	107.50	102.04
220	2.0	550.0	100.0000	20.00	1.000	124.56	118.76	113.11	107.50	102.04
230	1.7	550.3	100.0000	20.00	1.000	124.58	118.78	113.13	107.52	102.06
240	1.8	550.2	100.0000	20.00	1.000	124.57	118.77	113.12	107.51	102.05
250	2.0	550.0	100.0000	20.00	1.000	124.56	118.76	113.11	107.50	102.04
260	2.0	550.0	100.0000	20.00	1.000	124.56	118.76	113.11	107.50	102.04
270	1.9	550.1	100.0000	20.00	1.000	124.57	118.76	113.11	107.51	102.05

Ave EI = 1.83 M HAAT= 550.17 M AMSL= 552 M

N. Lat. = 24 39 34 W. Lng. = 81 32 19

HAAT and Distance to Contour - FCC Method - 03 Arc. Sec.

WAVQ.C - Protection to Channel 6 WTVJ.C - Reflects 6 dB receiver directivity credit

Azi.	AV EL	HAAT	ERP kW	dBk	Field	56.8-F1	58-F1	59.2-F1	60.5-F1	61.8-F1
150	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
160	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
170	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
180	0.0	83.0	39.5000	15.97	1.000	54.45	51.11	47.73	44.18	40.85
190	0.0	83.0	39.5000	15.97	1.000	54.45	51.11	47.73	44.18	40.85
200	0.0	83.0	39.5000	15.97	1.000	54.45	51.11	47.73	44.18	40.85
210	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
220	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.18	40.86
230	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
240	0.2	82.8	39.5000	15.97	1.000	54.43	51.08	47.70	44.15	40.82
250	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
260	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
270	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
280	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
290	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86
300	0.0	83.0	39.5000	15.97	1.000	54.46	51.12	47.73	44.19	40.86

Ave EI = 0.02 M HAAT= 82.98 M AMSL= 83 M

N. Lat. = 24 39 34 W. Lng. = 81 32 19

HAAT and Distance to Contour - FCC Method - 03 Arc. Sec.

WAVQ.C - Protection to Channel 6 WTVJ.C

Azi.	AV EL	HAAT	ERP kW	dBk	Field	50.8-F1	52-F1	53.2-F1	54.5-F1	55.8-F1
150	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
160	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
170	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
180	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.14	57.28
190	0.0	83.0	39.5000	15.97	1.000	74.00	69.67	65.45	61.14	57.28
200	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.14	57.28
210	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
220	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
230	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
240	0.2	82.8	39.5000	15.97	1.000	73.97	69.65	65.42	61.12	57.25
250	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
260	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
270	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
280	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
290	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29
300	0.0	83.0	39.5000	15.97	1.000	74.00	69.68	65.45	61.15	57.29

Ave EI = 0.02 M HAAT= 82.98 M AMSL= 83 M