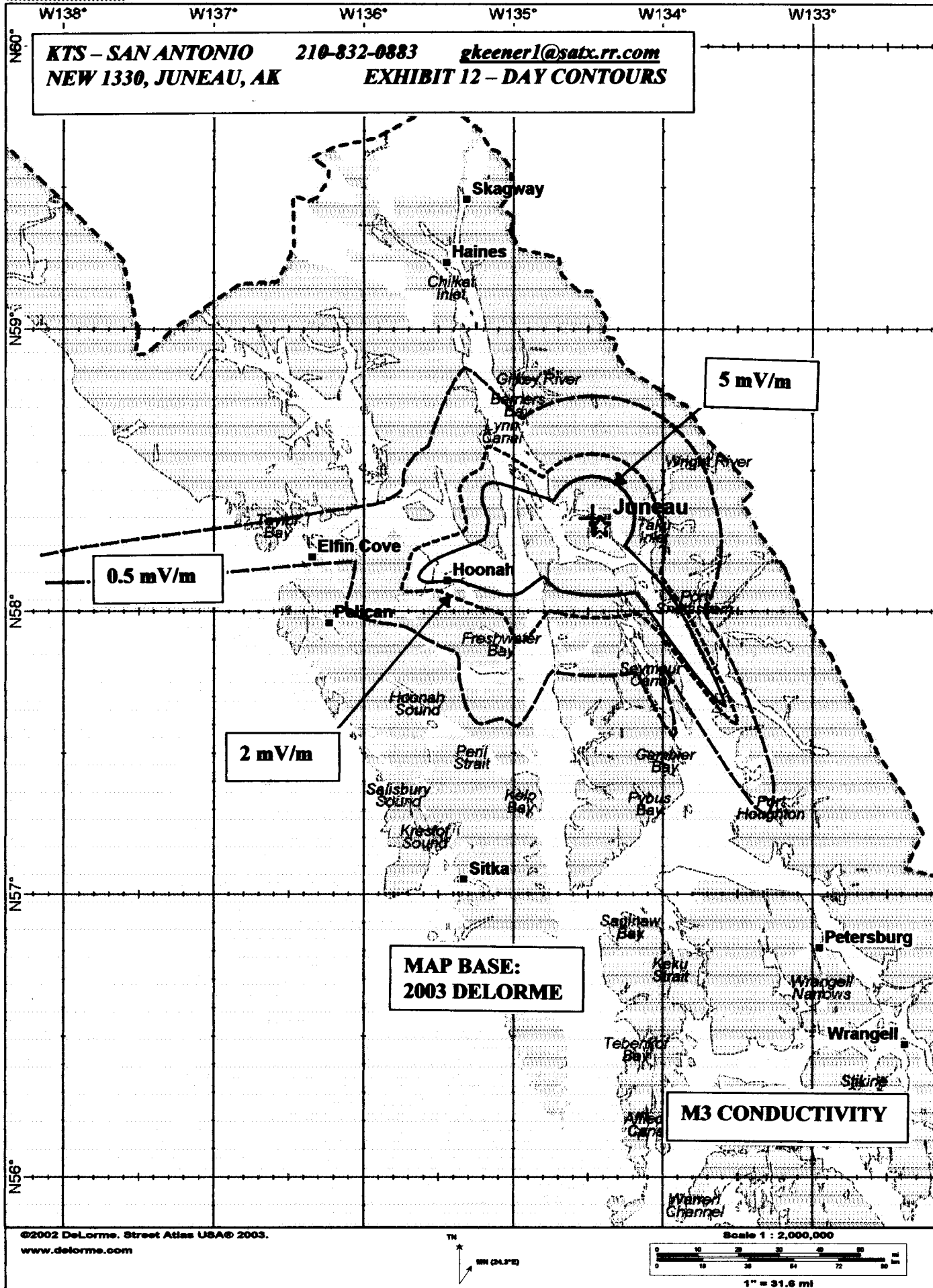


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NEW 1330, JUNEAU, AK EXHIBIT 12 - DAY CONTOURS



CONDUCTIVITY TABULATION

Station: NEW, JUNEAU, AK, 1330 kHz 58-19-54 134-27-46

Distances are from Site to Conductivity Breaks

AZIMUTH	mS/m	KM	mS/m	KM	mS/m	KM	mS/m	KM
0	2	82.8	1.0	724.2				
5	2	73.0	1.0	724.2				
10	2	62.5	1.0	724.2				
15	2	57.9	1.0	724.2				
20	2	56.5	1.0	724.2				
25	2	55.7	1.0	724.2				
30	2	55.3	1.0	724.2				
35	2	55.3	1.0	724.2				
40	2	55.7	1.0	724.2				
45	2	55.1	1.0	724.2				
50	2	55.0	1.0	721.0	8	724.2		
55	2	55.2	1.0	682.3	8	724.2		
60	2	55.9	1.0	651.3	8	724.2		
65	2	57.1	1.0	620.5	8	724.2		
70	2	58.7	1.0	596.2	8	724.2		
75	2	60.9	1.0	594.0	8	724.2		
80	2	63.8	1.0	598.3	8	724.2		
85	2	26.7	50	27.2	2	61.3	1.0	611.2
	8	724.2						
90	2	25.2	50	26.8	2	61.2	1.0	634.3
	10	724.2						
95	2	24.0	50	26.7	2	64.7	1.0	672.4
	10	724.2						
100	2	23.1	50	26.7	2	69.0	1.0	724.2
105	2	22.4	50	26.9	2	74.7	1.0	724.2
110	2	21.9	50	27.4	2	82.0	1.0	724.2
115	2	21.6	50	28.0	2	91.7	1.0	724.2
120	2	21.5	50	29.0	2	105.9	1.0	724.2
125	2	21.5	50	30.2	2	126.5	1.0	669.3
	2	724.2						
130	2	21.7	50	31.8	2	158.4	1.0	642.7
	2	692.3	1.0	724.2				
135	2	3.7	50	33.9	2	184.5	1.0	198.0
	2	203.5	1.0	289.5	2	384.7	1.0	724.2
140	2	3.0	50	55.8	2	81.9	50	83.2
	2	435.1	1.0	724.2				
145	2	2.5	50	25.1	2	27.4	50	87.5
	2	222.7	50	232.5	2	260.4	50	267.9
	2	320.5	50	325.9	2	382.4	50	393.7
	2	449.6	1.0	724.2				
150	2	2.2	50	23.5	2	41.8	50	119.1
	2	162.0	50	198.6	2	224.9	50	237.1
	2	290.9	50	303.8	2	327.0	50	349.4
	2	403.6	50	468.6	1.0	513.3		
	50	533.0	1.0	677.6	50	698.4	1.0	716.5
155	2	1.9	50	22.2	2	89.8	50	135.4
	2	145.4	50	160.5	2	209.3	50	221.7
	2	222.2	50	229.8	2	280.6	50	724.2
160	2	1.8	50	21.2	2	47.1	50	78.4
	2	101.0	50	151.5	2	221.7	50	264.7
	2	427.1	50	501.6	1.0	518.7	50	724.2
165	2	1.6	50	20.4	2	97.5	50	99.9
	2	117.1	50	144.6	2	174.5	50	186.9
	2	217.5	50	229.5	2	419.2	50	490.8
	1.0	652.7	50	724.2				

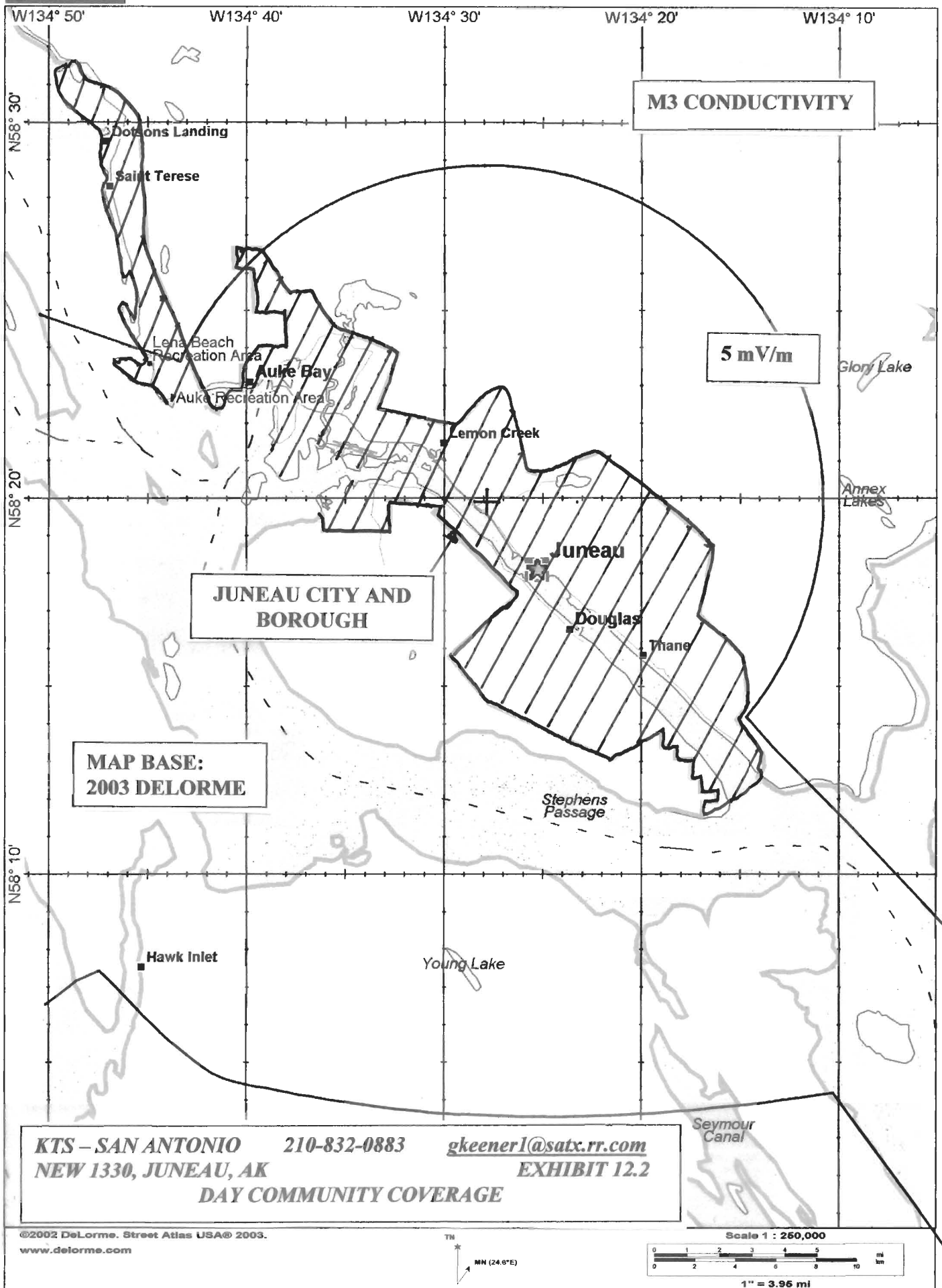
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NEW 1330, JUNEAU, AK EXHIBIT 12.1
CONDUCTIVITY TABULATION

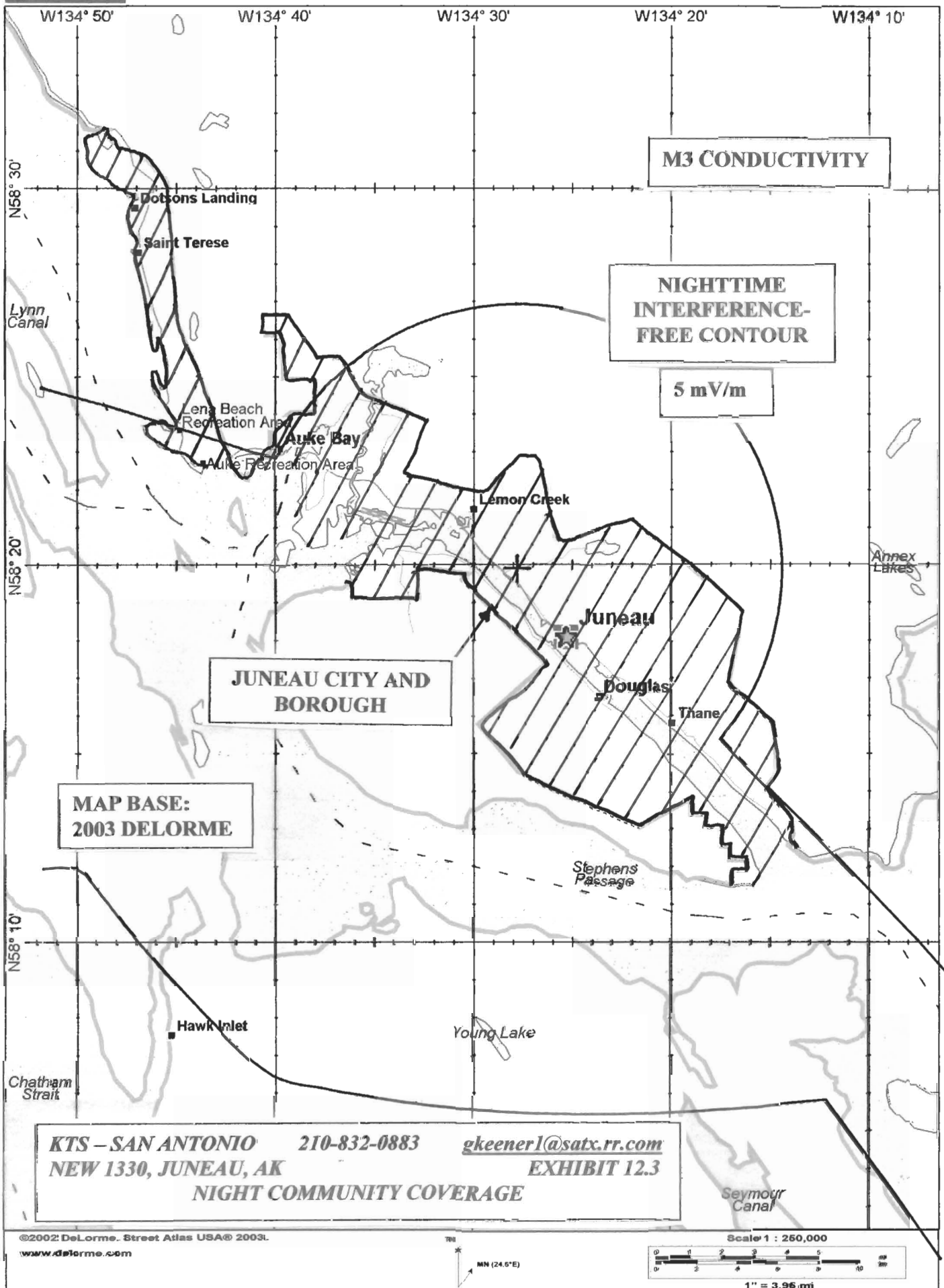
Station: NEW, JUNEAU, AK, 1330 kHz					58-19-54		134-27-46	
AZIMUTH	mS/m	KM	mS/m	KM	mS/m	KM	mS/m	KM
170	2	1.5	50	19.8	2	107.6	50	147.9
	2	148.8	50	181.8	2	224.7	50	260.5
	2	359.0	50	495.5	1.0	504.4	50	511.4
	1.0	515.2	50	724.2				
175	2	1.4	50	19.4	2	132.7	50	157.2
	2	201.6	50	212.1	2	258.9	50	724.2
180	2	1.4	50	19.2	2	86.9	50	90.7
	2	112.4	50	112.7	2	140.3	50	724.2
185	2	1.3	50	19.1	2	88.0	50	164.3
	2	226.0	50	724.2				
190	2	1.3	50	19.2	2	74.4	50	128.4
	2	202.0	50	724.2				
195	2	1.2	50	19.4	2	62.6	50	87.9
	2	93.3	50	97.3	2	97.6	50	105.6
	2	110.3	50	112.6	2	180.7	50	724.2
200	2	1.2	50	19.7	2	49.3	50	76.4
	2	99.1	50	105.7	2	152.4	50	724.2
205	2	1.2	50	20.3	2	43.0	50	69.1
	2	97.4	50	103.9	2	135.8	50	724.2
210	2	1.2	50	19.9	2	38.3	50	64.0
	2	67.2	50	74.0	2	96.5	50	103.0
	2	133.9	50	138.9	2	153.3	50	724.2
215	2	1.2	50	19.2	2	34.2	50	52.0
	2	58.8	50	62.7	2	73.2	50	80.4
	2	96.3	50	134.1	2	147.4	50	724.2
220	2	1.3	50	18.8	2	31.1	50	46.4
	2	59.7	50	61.8	2	75.8	50	81.0
	2	96.9	50	110.6	2	129.2	50	724.2
225	2	1.3	50	18.5	2	28.8	50	43.7
	2	61.1	50	61.5	2	77.3	50	81.7
	2	98.3	50	106.3	2	124.4	50	128.7
	2	129.2	50	724.2				
230	2	1.3	50	18.3	2	27.5	50	45.7
	2	79.5	50	83.0	2	100.4	50	103.1
	2	123.7	50	724.2				
235	2	1.4	50	18.3	2	26.5	50	48.2
	2	82.5	50	85.0	2	124.1	50	724.2
240	2	1.5	50	18.4	2	25.7	50	51.4
	2	86.4	50	87.8	2	125.3	50	724.2
245	2	1.6	50	18.7	2	25.2	50	55.5
	2	70.1	50	76.0	2	91.5	50	91.5
	2	127.6	50	724.2				
250	2	1.7	50	19.1	2	24.9	50	69.4
	2	127.0	50	724.2				
255	2	1.9	50	19.7	2	24.8	50	40.7
	2	41.2	50	64.4	2	126.1	50	724.2

CONDUCTIVITY TABULATION

Station: NEW, JUNEAU, AK, 1330 kHz									
AZIMUTH	58-19-54		134-27-46						
	mS/m	KM	mS/m	KM	mS/m	KM	mS/m	KM	
260	2	2.1	50	20.5	2	24.9	50	37.8	
	2	48.2	50	70.1	2	101.8	50	107.4	
	2	110.7	50	724.2					
265	2	2.4	50	21.6	2	25.1	50	35.6	
	2	51.9	50	129.2	2	130.2	50	724.2	
270	2	2.8	50	22.9	2	25.6	50	34.4	
	2	55.2	50	102.3	2	106.6	50	114.7	
	2	122.1	50	126.5	2	138.5	50	724.2	
275	2	3.4	50	24.6	2	26.3	50	35.2	
	2	59.5	50	68.5	2	84.7	50	95.1	
	2	118.2	50	119.7	2	161.9	50	724.2	
280	2	4.4	50	26.8	2	27.2	50	36.3	
	2	87.2	50	99.6	2	185.3	50	724.2	
285	2	6.4	50	37.9	2	90.7	50	105.3	
	2	207.2	50	724.2					
290	2	11.7	50	39.8	2	95.1	50	118.1	
	2	224.1	50	724.2					
295	2	17.9	50	42.3	2	100.8	50	112.5	
	2	114.4	50	142.4	2	180.1	1.0	193.3	
	2	320.0	50	531.5	2	623.8	50	724.2	
300	2	19.9	50	45.5	2	108.2	50	116.8	
	2	171.1	1.0	205.8	2	328.5	50	351.7	
	2	724.2							
305	2	22.7	50	49.8	2	118.0	50	122.4	
	2	163.0	1.0	271.7	2	344.4	50	345.9	
	2	724.2							
310	2	26.5	50	55.7	2	156.9	1.0	338.5	
	2	362.9	1.0	467.2	2	724.2			
315	2	32.1	50	63.7	2	164.1	1.0	502.0	
	2	724.2							
320	2	41.3	50	75.1	2	167.6	1.0	549.2	
	2	724.2							
325	2	51.1	50	92.3	2	177.9	1.0	610.8	
	2	724.2							
330	2	59.5	50	63.8	2	86.3	50	107.7	
	2	172.9	1.0	687.9	2	724.2			
335	2	129.6	50	133.1	2	173.5	1.0	724.2	
340	2	170.9	1.0	724.2					
345	2	109.9	1.0	140.4	2	148.5	1.0	724.2	
350	2	104.6	1.0	724.2					
355	2	92.6	1.0	724.2					

Tabulated 50 mS/m represents 5000 mS/m





Nighttime Skywave Limits Study
NEW, 1330 kHz 58-19-54 N 134-27-46 W
Class:B JUNEAU, AK, US

KKPZ	L(A)	1330 US OR PORTLAND	2.624	1643	km	BL-
CHQM	O(A U)	1320 CA BC VANCOUVER	0.905	1262	km	-
CHMB	O(A U)	1320 CA BC VANCOUVER	0.905	1262	km	-
CJYM	O(A)	1330 CA SK ROSETOWN	0.765	1841	km	-
KNSS	L()	1330 US KS WICHITA	0.356	3518	km	BL-
KWKW	L(AA)	1330 US CA LOS ANGELES	0.311	2957	km	BL-
KOVE	L()	1330 US WY LANDER	0.266	2474	km	BL-
WLOL	L()	1330 US MN MINNEAPOLIS	0.220	3149	km	BL-19981112AB
KSNA	C()	1330 US CA SHASTA LAKE CITY	0.214	2144	km	BNP-20001019AAM
KLBO	L(AA)	1330 US TX MONAHANS	0.194	3794	km	-
KJLL	L()	1330 US AZ SOUTH TUCSON	0.191	3393	km	BL-19850321AE
KGAK	L()	1330 US NM GALLUP	0.185	3158	km	BL-19831206AH
CIVH	O(A)	1340 CA BC VANDERHOOF	0.179	805	km	-
KWLO	L()	1330 US IA WATERLOO	0.149	3392	km	BL-
KLBS	L()	1330 US CA LOS BANOS	0.136	2560	km	BL-19861119AB
XEBO	O(A)	1330 MX GT IRAPUATO	0.090	4964	km	-
XEMAC	P(A)	1330 MX CL MANZANILLO	0.089	5004	km	-
CINL	O(A)	1340 CA BC ASHCROFT	0.084	1192	km	-
XENP	P(A)	1330 MX JA OCOTLAN	0.082	4936	km	-
KLKI	L()	1340 US WA ANACORTES	0.080	1343	km	BL-
XE	O(A)	1330 MX DU DURANGO	0.075	4458	km	-
NEW	A()	1340 US AK FAIRBANKS	0.075	1001	km	BNP-20040128ARY
KXRO	L(A)	1320 US WA ABERDEEN	0.072	1451	km	BL-19940927AB
XEEV	O(A)	1330 MX PU IZUCAR DE MATAMO	0.067	5293	km	-
NEW	A()	1340 US AK FAIRBANKS	0.066	1009	km	BNP-20040126AAC
KVSN	L(UUU)	1340 US WA TUMWATER	0.064	1476	km	BL-19980113KB
XEAH	O(A)	1330 MX OA JUCHITAN	0.063	5666	km	-
CKCR	O(A U)	1340 CA BC REVELSTOKE	0.061	1324	km	-
CKCR	P(A U)	1340 CA BC REVELSTOKE	0.061	1320	km	-
KWWX	C()	1340 US WA WENATCHEE	0.060	1538	km	BP-20031017AAO

RSS Protection Limits with Exclusion

KKPZ	L(A)	1330 US OR PORTLAND	LIM: 2.624	RSS: 2.62	1643	km
50% Exclusion RSS		2.62 mV/m ←				
CHQM	O(A U)	1320 CA BC VANCOUVER	LIM: 0.905	RSS: 2.78	1262	km
CHMB	O(A U)	1320 CA BC VANCOUVER	LIM: 0.905	RSS: 2.92	1262	km
CJYM	O(A)	1330 CA SK ROSETOWN	LIM: 0.765	RSS: 3.02	1841	km
25% Exclusion RSS		3.02 mV/m Requires Protection of	0.755 mV/m			
KNSS	L()	1330 US KS WICHITA	LIC. NEXT	0.356	3518	km