# STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF FLORIDA TOWER

PARTNERS LLC D/B/A NORTH ATLANTIC

TOWERS FOR A CERTIFICATE OF

ENVIRONMENTAL COMPATIBILITY AND

PUBLIC NEED FOR THE CONSTRUCTION,

MAINTENANCE, AND OPERATION, OF A

TELECOMMUNICATIONS FACILITY AT

62-64 CODFISH HILL ROAD, BETHEL,

CONNECTICUT

DOCKET NO. 458

JULY 7, 2015

## SUPPLEMENTAL RESPONSES OF INTERVENOR, CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS TO CONNECTICUT SITING COUNCIL PRE-HEARING QUESTIONS

On May 26, 2015, Cellco Partnership d/b/a Verizon Wireless ("Cellco"), an intervenor in Docket No. 458, responded to certain pre-hearing questions from the Siting Council ("Council") regarding its plans to share either the proposed Site 1 or Site 2 tower at 62-64 Codfish Hill Road in Bethel. In light of the recent withdrawal from this proceeding by AT&T, Cellco offers the following supplemental/modified responses to Council Question Nos. 5, 6 and 13.

#### Question No. 5

Please describe Cellco's need for the facility in regards to coverage and/or capacity.

Include coverage modeling and/or capacity information that demonstrates existing and proposed service.

#### Supplemental Response

Cellco identifies the proposed cell site as its "Bethel East" cell site. The minimum antenna height required for Cellco to satisfy its wireless service objectives in the area is 120 feet

above ground level ("AGL") at the Site 1 location and 150 feet AGL at the Site 2 location.

Cellco needs the proposed Bethel East cell site to fill significant gaps in service along portions of Routes 302 and 58 in Bethel and portions of western Newtown and northern Redding. The proposed Bethel East cell site will also provide capacity relief to Cellco's surrounding cell sites, particularly, its existing Bethel CT cell site.

Included in Attachment 1 of these Supplemental Responses are revised coverage maps showing the service that Cellco would realize from the proposed Site 1 Facility with antennas at 120' AGL (Supplemental Maps 5-8) and the Site 2 Facility with antennas at 150' AGL (Supplemental Maps 9-12).

#### Question No. 6

What is the predicted coverage footprint for each frequency used at the proposed site (in square miles)?

#### Supplemental Response

Site 1 – Cellco Antennas at 120' AGL

Frequency (MHz)	Cover Footprint (Sq. Miles)
700	15.22
850	8.07
1900	7.23
2100	6.73

Site 2 – Cellco Antennas at 150' AGL

Frequency (MHz)	Cover Footprint (Sq. Miles)
700	15.87
850	8.14
1900	7.09
2100	6.97

#### Question No. 13

Provide a power density analysis according to the methodology prescribed in the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) assuming all Cellco antennas are directed at the base of the tower and all channels are operating simultaneously.

### Supplemental Response

Worst-case General Power Density calculations for Cellco's antennas at the 120-foot level on the Site 1 tower and the 150-foot level on Site 2 tower are included in <u>Attachment 2</u> of these Supplemental Responses.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

y V

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Its Attorneys

### CERTIFICATE OF SERVICE

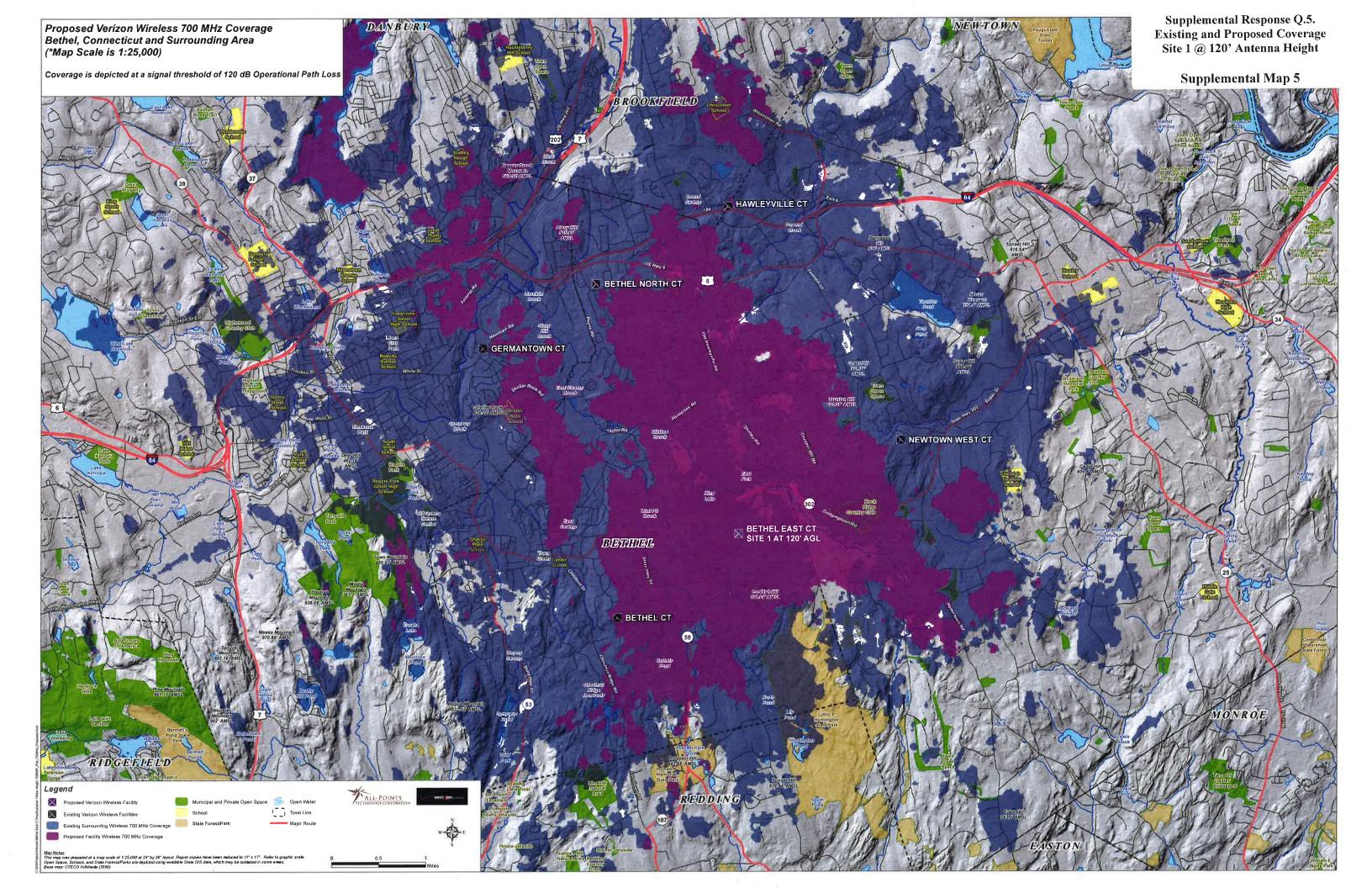
I hereby certify that on the 7<sup>th</sup> day of July, 2015, a copy of the foregoing was sent, via electronic mail, to:

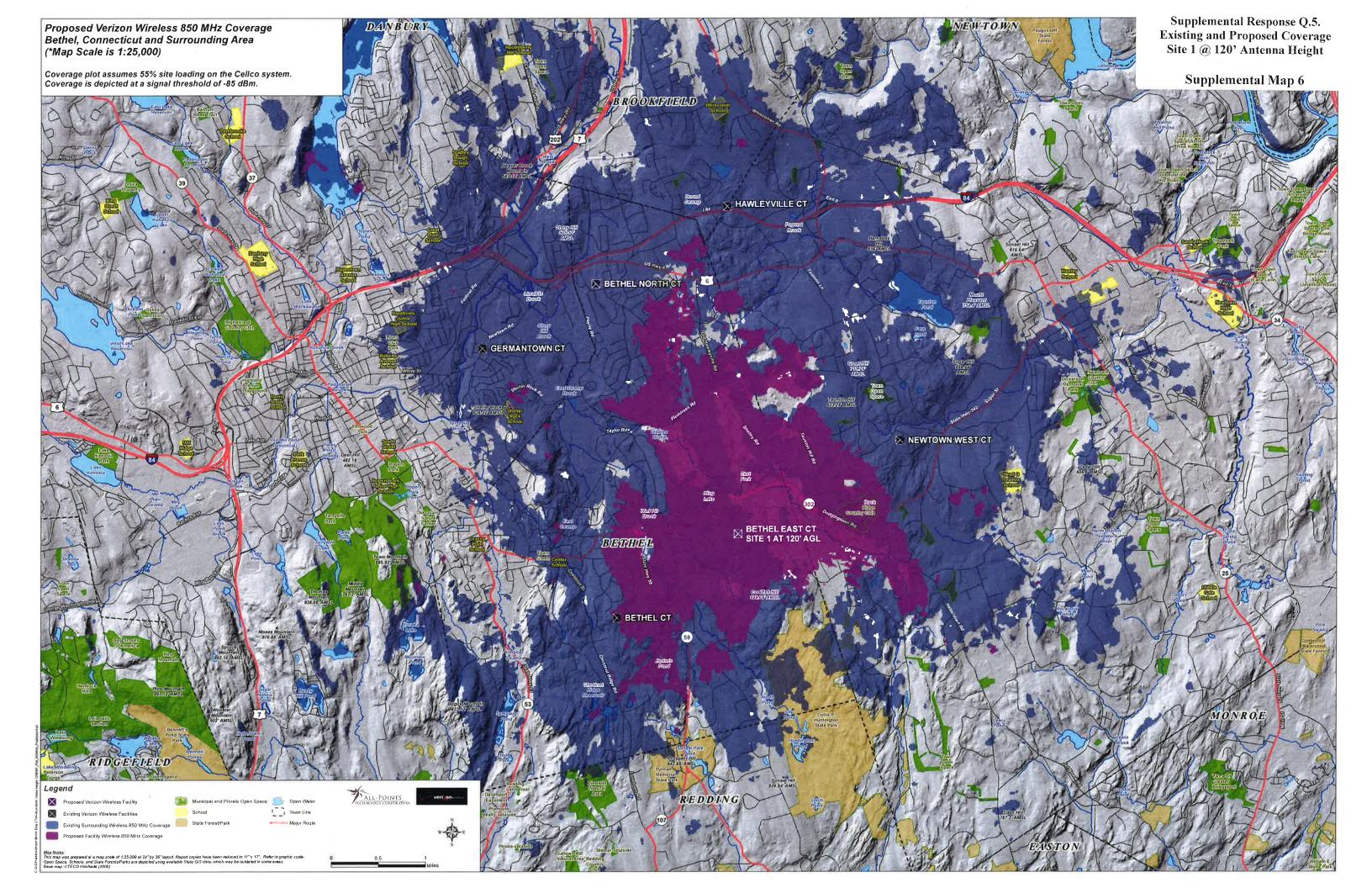
Julie D. Kohler, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604 jkohler@cohenandwolf.com

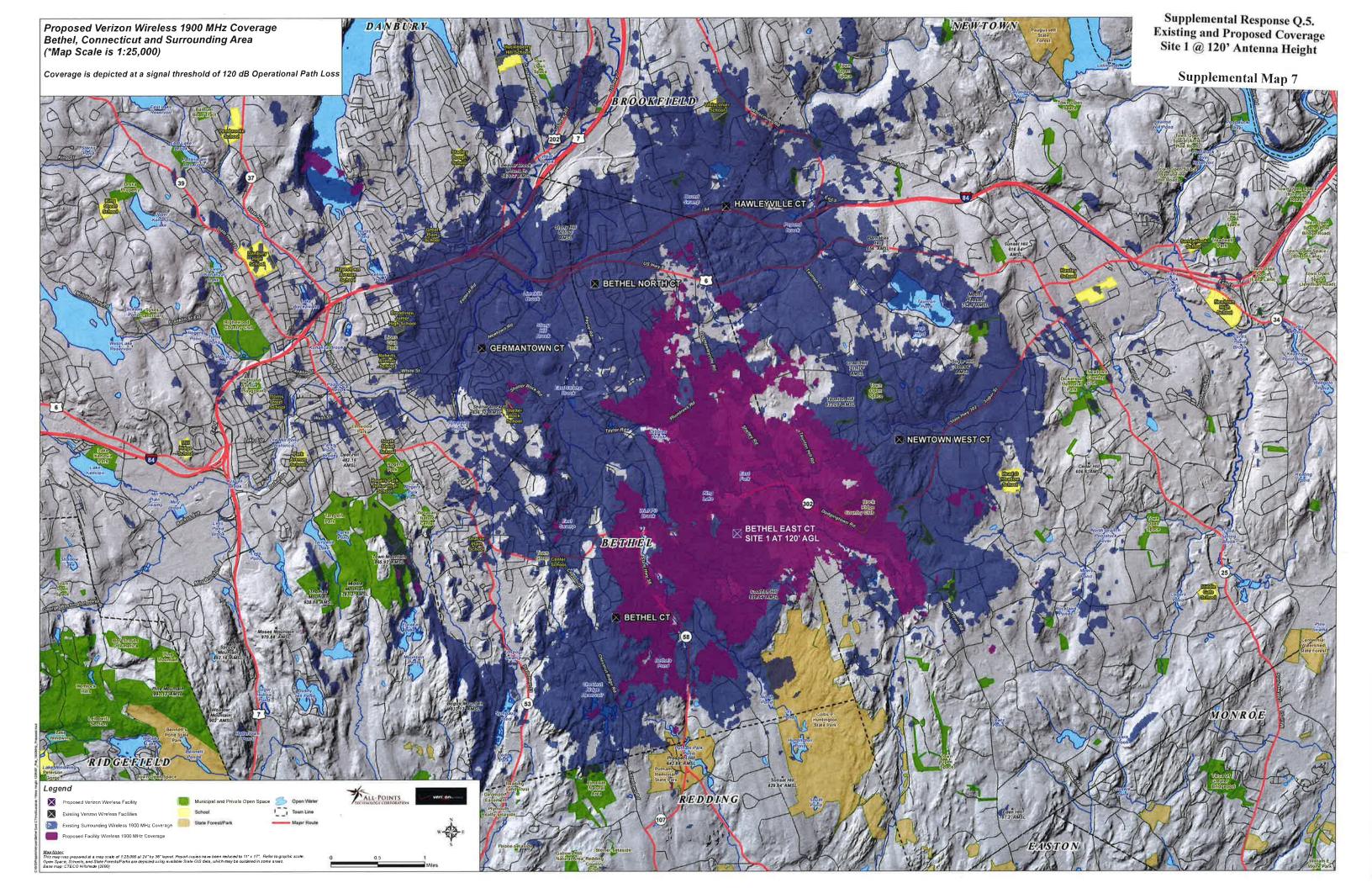
Keith R. Ainsworth, Esq. Evans Feldman & Ainsworth, L.L.C. 261 Bradley Street P.O. Box 1694 New Haven, CT 06507-1694 krainsworth@snet.net

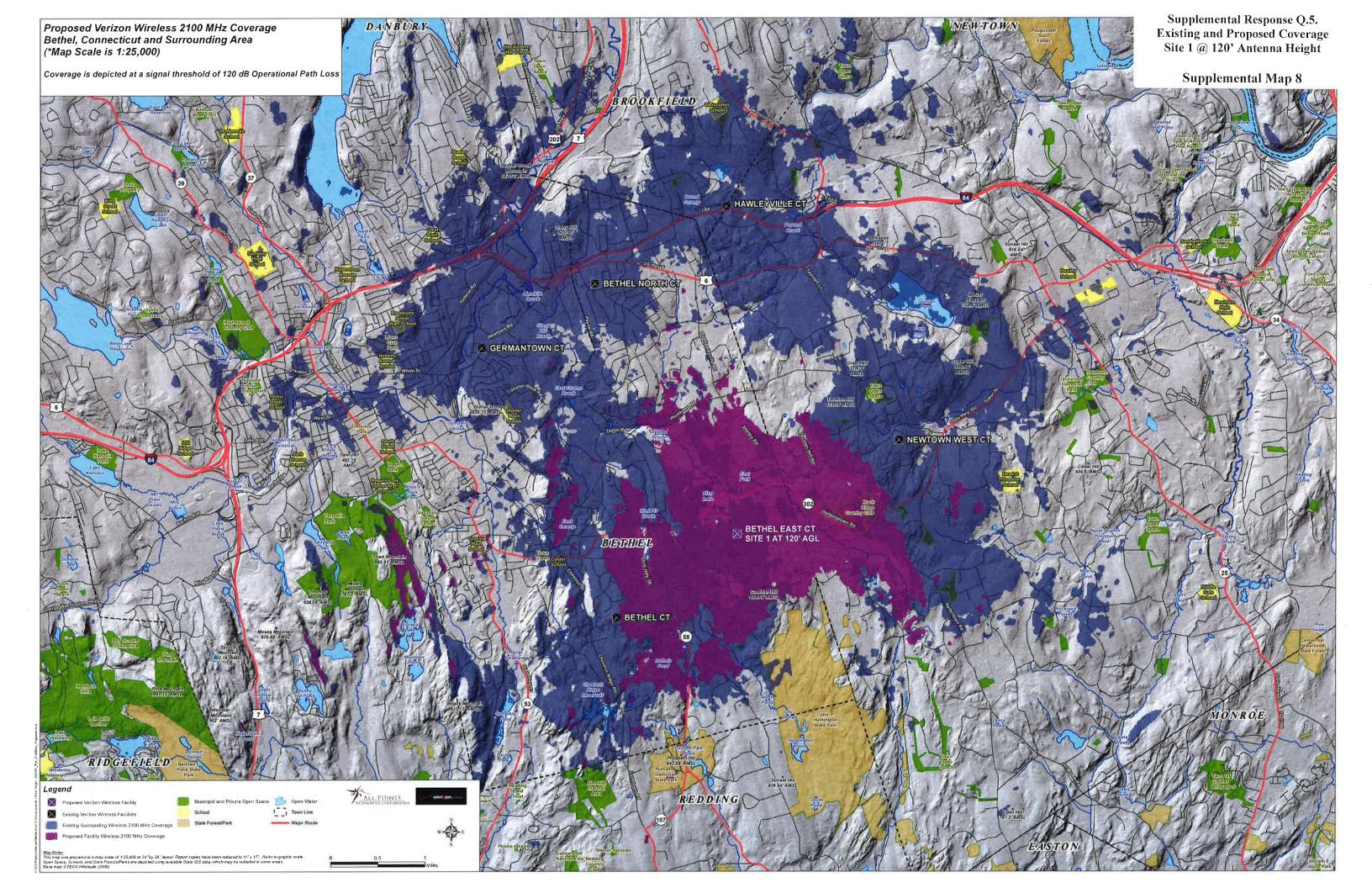
Kenneth C. Baldwin

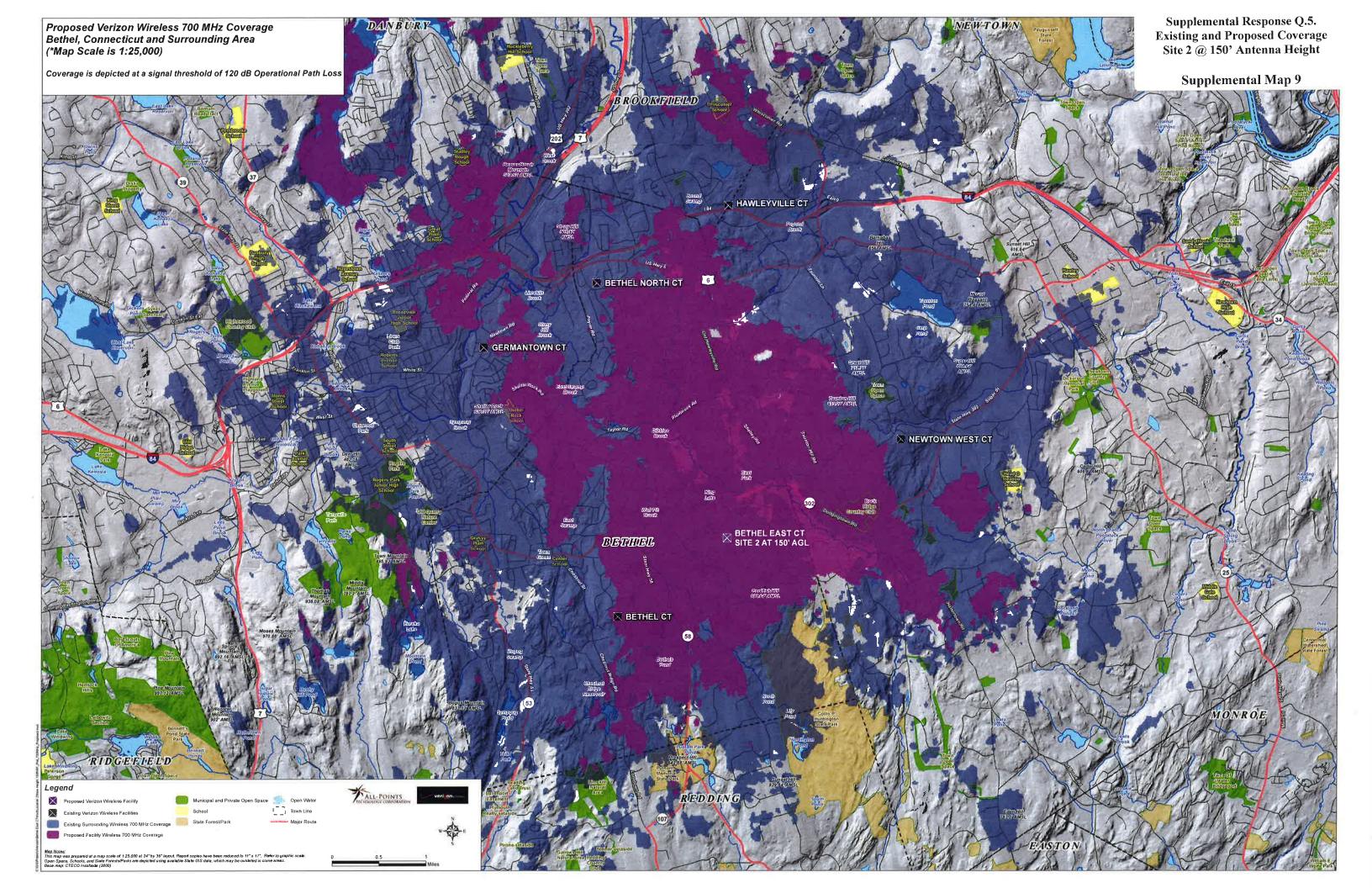
# **ATTACHMENT 1**

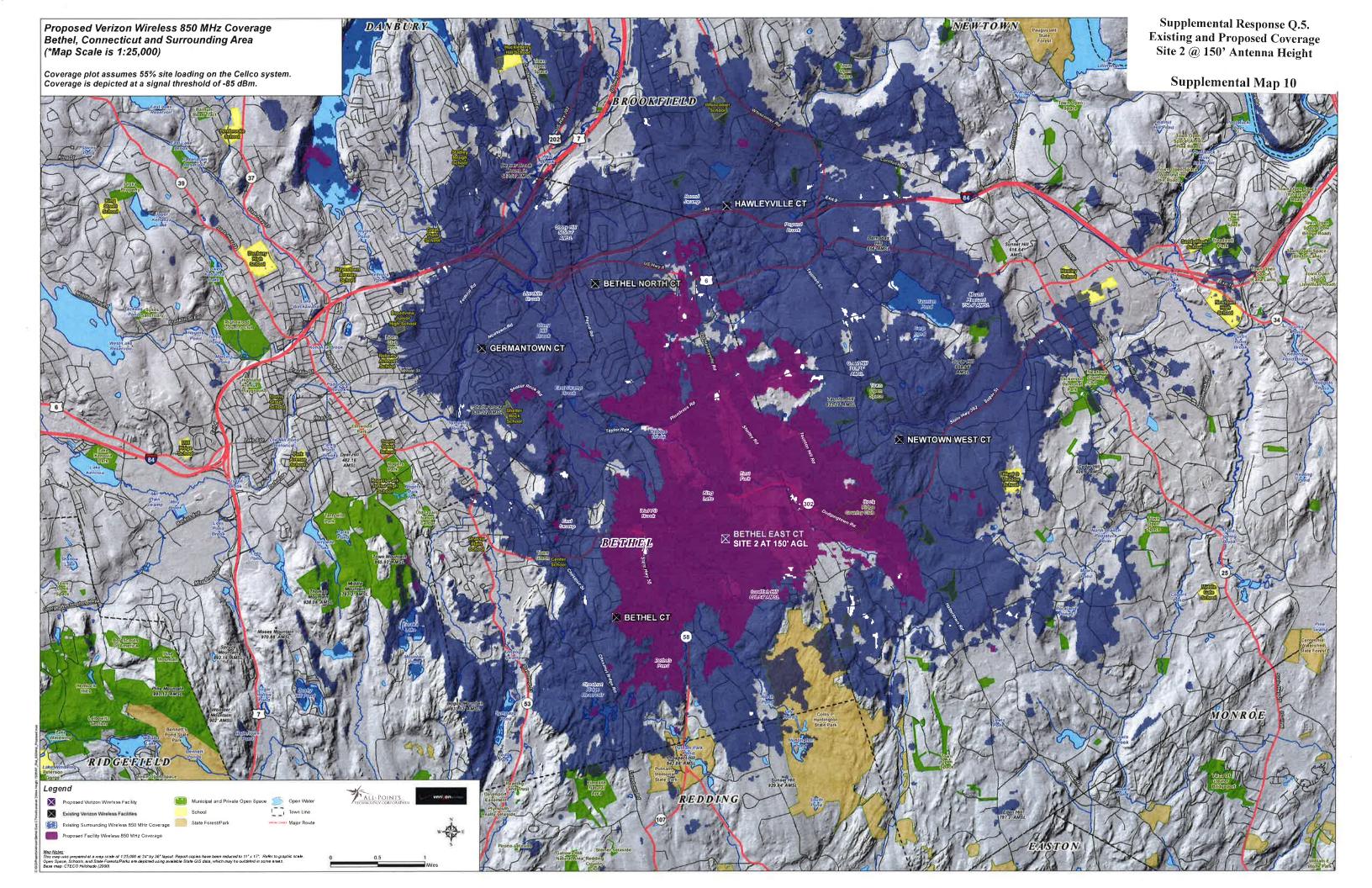


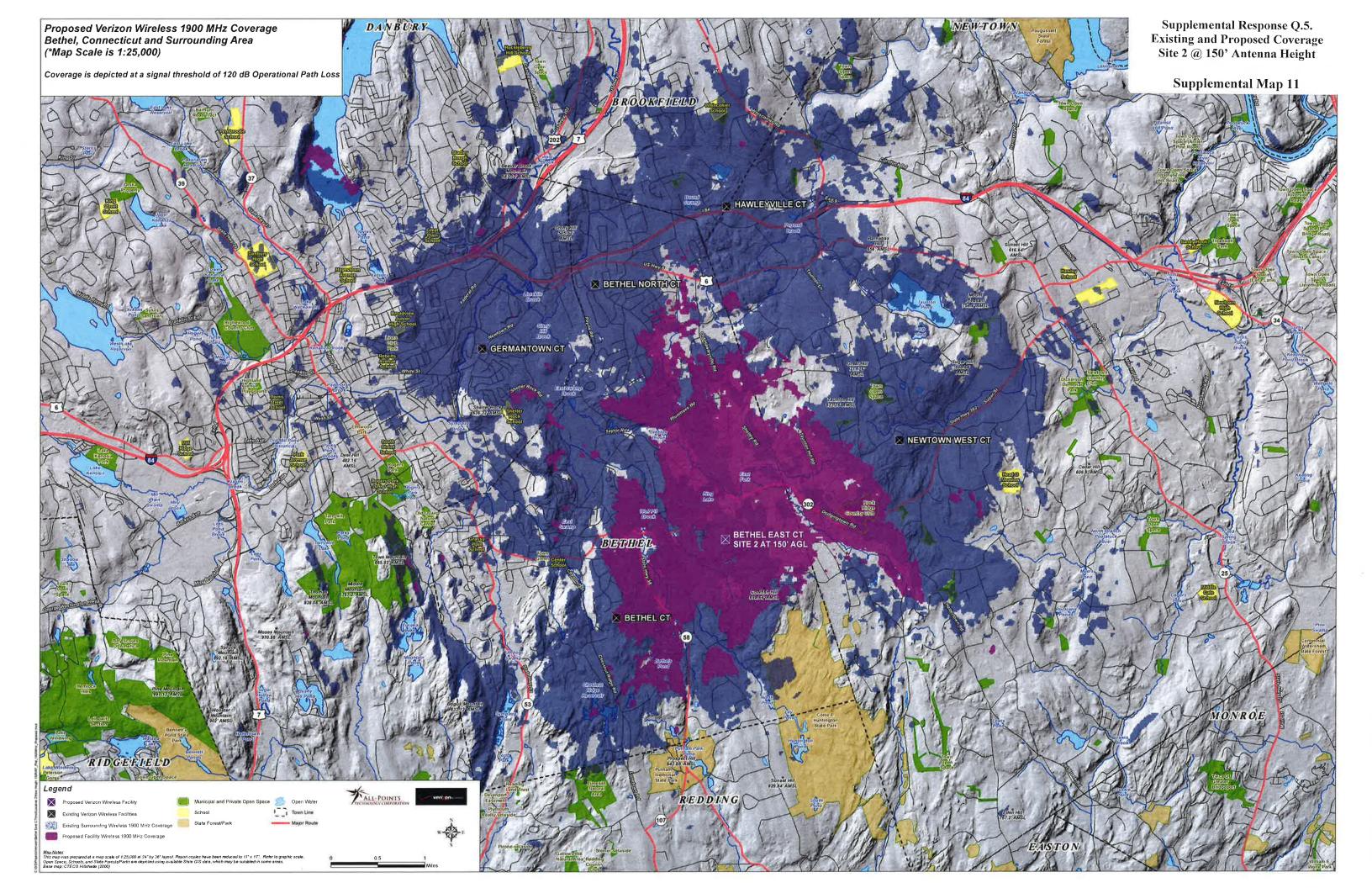


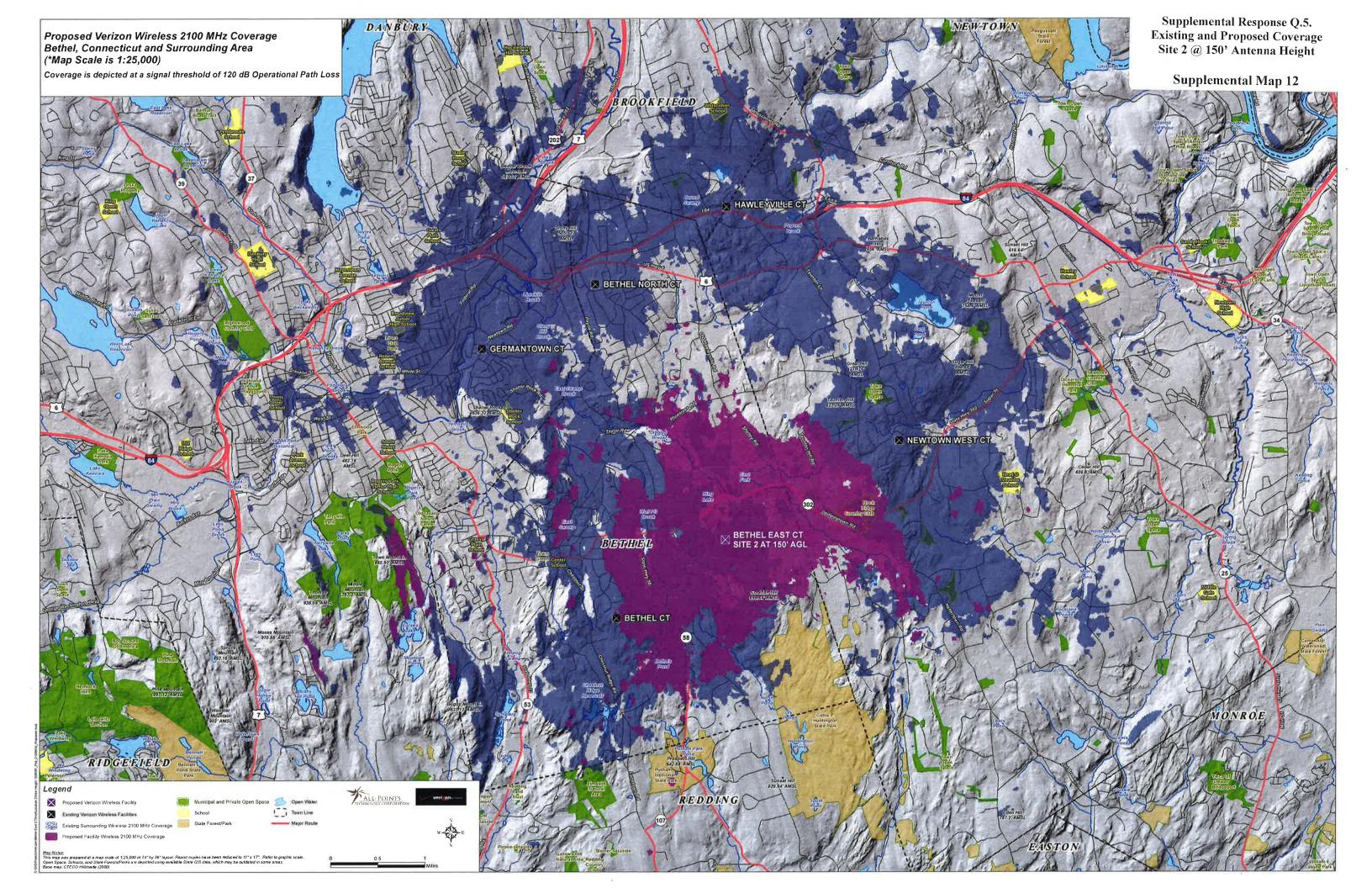












# **ATTACHMENT 2**

SITE 1

BETHEL EAST, CT Site Name: BETHEL EASTUMENT OF STATE OF

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	%
VZW PCS	1970	1	2393	2393	120	0.0598	1.0	5.98%
VZW Cellular	698	6	441	3969	120	0.0991	0.57933333	L
VZW AWS	2145	1	940	940	120	0.0235	1.0	Ш
NZW 700	746	1	1750	1750	120	0.0437	0.497333333	8.79%

Total Percentage of Maximum Permissible Exposure

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used.

BETHEL EAST, CT **Cumulative Power Density** Site Name:

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2) (mW/cm^2)	(%)
VZW PCS	1970	-	2393	2393	150	0.0382	1.0	3.82%
VZW Cellular	698	6	261	2349	150	0.0375	0.57933333	6.48%
VZW AWS	2145	-	940	940	150	0.0150	1.0	1.50%
VZW 700	746	1	1750	1750	150	0.0280	0.49733333	5.62%
Total Percentage	ntage of Ma	of Maximum Permissible Exposure	ermissibl	e Expos	ure			17.43%

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used.