

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF T-MOBILE NORTHEAST, DOCKET NO. 401
LLC FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND
PUBLIC NEED FOR THE CONSTRUCTION, January 4, 2011
MAINTENANCE AND OPERATION OF A
TELECOMMUNICATIONS FACILITY AT 208
VALLEY ROAD, NEW CANNAN,
CONNECTICUT

**NEW CINGULAR WIRELESS PCS, LLC ("AT&T") RESPONSES TO
SITING COUNCIL REOPENING PRE-HEARING INTERROGATORIES (SET ONE)**

- Q1. At what frequencies would AT&T operate its antennas at the proposed site?
- A1. AT&T's licensed operating frequencies in this part of the state include the 850 MHz ("cellular") band, specifically 880-894 MHz, as well as the 1900 MHz ("PCS") band. Initially AT&T will install 850 MHz cellular service and expand to the 1900 MHz PCS service to provide additional capacity as needed. 700 Mhz spectrum would also be deployed as needed in the future as part of AT&T's evolution to LTE.
- Q2. What nearby sites would the proposed site handoff to?
- A2. The proposed site would interact and be frequency coordinated with the following sites:

Site Name	Address	Town	Lat Long
CT2282	95R COUNTRY CLUB ROAD	New Canaan	41.1729/-73.4963
CT5046	WILL RUSS COURT	Norwalk	41.1267/-73.4328
CT5055	479 MAIN STREET	Norwalk	41.1511/-73.4267
CT5057	187 DANBURY ROAD	Wilton	41.1839/-73.4197
CT5058	289 DANBURY ROAD	Wilton	41.195/-73.4314
CT5060	27 CANON ROAD	Wilton	41.2136/-73.4283
CT2110	135 Main Street	New Canaan	41.1464/-73.4917
CT2121	671 South Ave	New Canaan	41.1248/-73.4917
CT2143	46 Fenwood Lane	Wilton	41.1725/-73.4339
CT2151	177 West Rocks Road	Norwalk	41.1439/-73.4183

Q3. What roads does AT&T intend to cover with antennas located on the proposed tower?

A3. In addition to residences and other land uses in this area of the State, the proposed site would provide new coverage to principally New Canaan Road (State Route 106) and Silvermine Road.

Q4. What is the length of proposed coverage on each road listed in response to question 3, at each frequency that AT&T would provide?

A4. At -82 dBm, the proposed site would provide new coverage as follows:

- Approximately 0.56 miles of cellular and 1.00 miles of PCS coverage on New Canaan Road
- Approximately 0.44 miles PCS on Silvermine Road;

Q5. What is the size (in square miles) of the footprint of AT&T's proposed coverage in the area?

A5.

Coverage Area (sq. mi.)		
	Cellular (850 MHz)	PCS(1900 MHz)
In-Vehicle	1.70	1.57
In-Building	4.01	3.19

Q6. What signal level does AT&T design its system for? Is that in-vehicle or in-building?

A6. AT&T designs for -82 dBm in-vehicle coverage and -74 dBm in-building coverage.

Q7. Provide a coverage plot showing existing AT&T coverage using AT&T's minimum signal level threshold at each frequency that would be used by AT&T.

A7. The coverage environment in this area of the State is a mix of cellular and PCS frequencies based on adjacent sites not all of which have cellular frequencies deployed. A combined plot is included in Exhibit A.

Q8. Provide a coverage plot showing existing AT&T coverage and coverage from the proposed site at 86 feet above ground level using AT&T's minimum signal level threshold at each frequency that would be used by AT&T.

A8. A combined plot is included in Exhibit B.

Q9. Provide the following information: number of channels per sector for each antenna system that would be installed on the proposed tower, ERP per channel for each antenna system, and frequency at which each antenna system would operate. Also, provide a power density analysis of AT&T's proposed antennas to determine the worst-case percent maximum permissible exposure at the tower base.

A9. The requested report is included in Exhibit C.

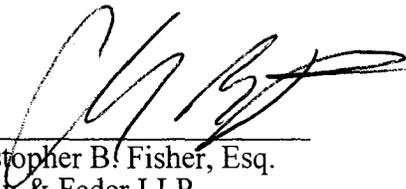
Q10. Would the proposed site be part of AT&T's enhanced 911 system?

- A10. Yes.
- Q11. What are the dimensions of the proposed AT&T equipment cabinet or shelter?
- A11. A 12' x 20' equipment shelter.
- Q12. How would AT&T provide backup power to its equipment?
- A12. AT&T understands there is no ground space for a generator and as such the site will be limited to batteries within AT&T's equipment and the use of a portable diesel generator.

Dated: January 4, 2011
White Plains, New York

New Cingular Wireless PCS, LLC ("AT&T")

By:



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Cuddy & Feder LLP
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(914) 761-1300
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CERTIFICATE OF SERVICE

I hereby certify that on this day, the original and fifteen copies of the foregoing were sent by overnight mail to the Connecticut Siting Council and:

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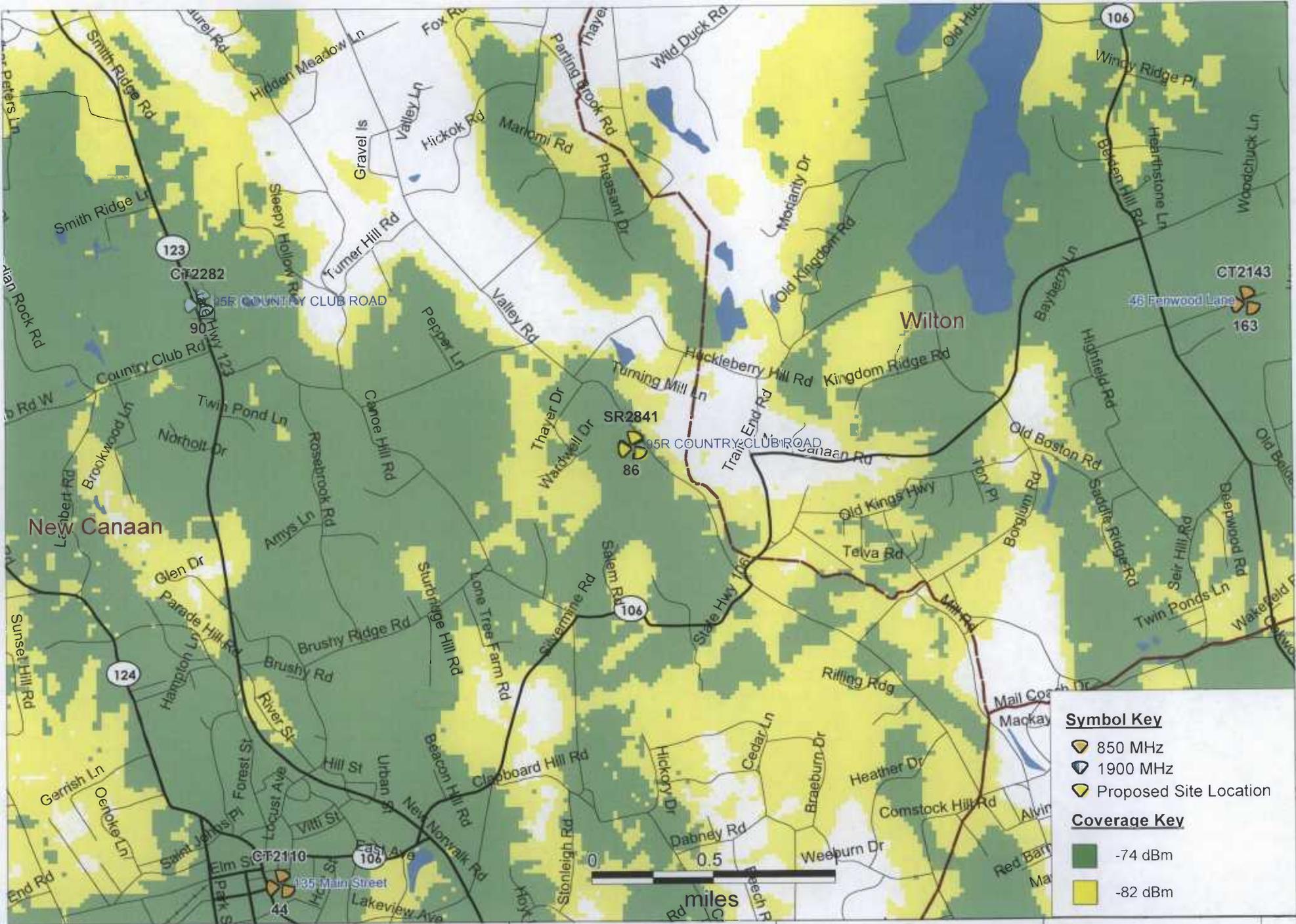
Dated: January 4, 2011



Christopher B. Fisher

cc: Michele Briggs, AT&T
David Vivian, SAI

EXHIBIT A



Symbol Key

- 850 MHz
- 1900 MHz
- Proposed Site Location

Coverage Key

- 74 dBm
- 82 dBm

Existing Coverage

New Canaan, CT

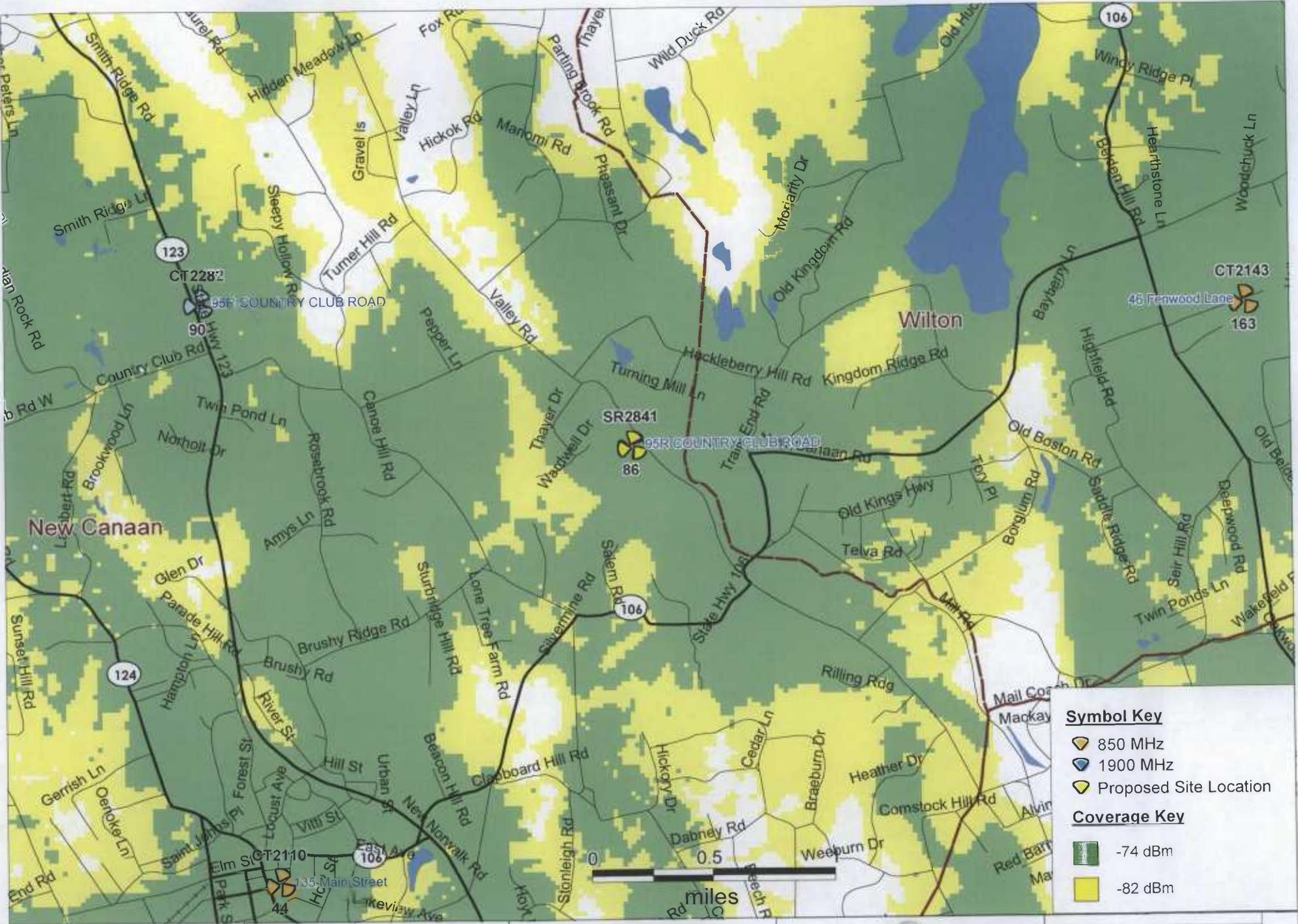
208 New Valley Road
New Canaan, CT



PREPARED ON
DATE: 12/22/2010

REV 5

EXHIBIT B



Symbol Key

- 850 MHz
- 1900 MHz
- Proposed Site Location

Coverage Key

- 74 dBm
- 82 dBm

Existing and Proposed Coverage

New Canaan, CT

208 New Valley Road
New Canaan, CT



PREPARED ON
DATE: 12/22/2010

REV 0

EXHIBIT C

Tony Wells
 C Squared Systems
 920 Candia Road
 Manchester, NH 03109
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 Tony.Wells@csquaredsystems.com



December 22, 2010

Connecticut Siting Council

Subject: New Cingular Wireless, New Canaan, CT

Dear Connecticut Siting Council:

C Squared Systems has been retained by New Cingular Wireless to investigate the RF Power Density at the proposed site located at 208 Valley Road, New Canaan, CT.

Calculations were done in accordance with FCC OET Bulletin 65. These worst-case calculations assume that all transmitters are simultaneously operating at full power and pointing directly at the ground. The calculation point is 6 feet above ground level to model the RF power density at the head of a person standing at the base of the tower.

Location	Carrier	Antenna Centerline Height Above Ground Level (Ft.)	Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	% FCC MPE Limit General Public/Uncontrolled
Ground Level	AT&T UMTS	86	880	1	500	0.0281	0.5867	4.79%
	AT&T UMTS	86	1900	1	500	0.0281	1.0000	2.81%
	AT&T GSM	86	880	3	296	0.0499	0.5867	8.51%
	AT&T GSM	86	1900	1	427	0.0240	1.0000	2.40%
Total								18.51%

Summary: Under worst-case assumptions, the RF Power Density at the proposed site located at 208 Valley Road, New Canaan, CT will not exceed 18.51% of the FCC MPE limit for General Public/Uncontrolled Environments.

Sincerely,

Anthony Wells
 Managing Partner