Attachment 4

#### Candidate B: General Facility Description

#### Old South Willington Road, Willington, Connecticut 06279 Owner: Lawrence Becker Tax ID: M18-19 Approximately 170 Acre Parcel

The proposed facility consists of a 100' by 100' lease area located in the south portion of an approximately 170 acre parcel owned by Lawrence Becker at Old South Willington Road in Willington. A new self-supporting monopole tower 190' in height would be constructed. AT&T would install up to 12 panel antennas at the 187' centerline height on the tower together with an associated 12' x 20' radio equipment shelter at the tower base on a concrete pad within the tower compound. The tower compound would consist of a 75' by 75' area to accommodate AT&T's equipment and provide for future shared use of the facility by other carriers. An 8-foot high chain link fence would enclose the tower compound. Vehicle access to the facility would be provided over a new 958' gravel access drive 12' in width. Electric and telephone utilities would be extended underground from a proposed riser utility pole to the proposed facility. Provisions are also included for an emergency generator to be located on a 4' x 11' concrete pad within the tower compound.

#### Candidate B: Site Evaluation Report

- I. LOCATION
  - A. COORDINATES: 41° 51' 48.3" N 72° 16' 28.3" W
  - B. GROUND ELEVATION: 682' AMSL
  - C. USGS MAP: Coventry Quadrangle
  - D. SITE ADDRESS: Old South Willington Road, Willington, Connecticut
  - E. ZONING WITHIN 1/4 MILE OF SITE: Commercial, Residential

#### II. DESCRIPTION

- A. SITE SIZE: 100' by 100' lease area, 75' by 75' compound
- B. LESSOR'S PARCEL:  $\pm 170$  acres
- C. TOWER TYPE/HEIGHT: Monopole / 190' AGL.
- D. SITE TOPOGRAPHY AND SURFACE: The proposed site is located towards the northern/central portion of a 170 acre parcel. The site is located on a sloping wooded area.
- E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The surrounding terrain ranges in elevation from 330' AMSL to over 740' AMSL. The majority of the surrounding area is covered with vegetation. A field investigation identified one on-site wetland approximately 79' to the east of the proposal access drive.
- F. LAND USE WITHIN 1/4 MILE OF SITE: Land uses within <sup>1</sup>/<sub>4</sub> mile of the site are primarily residential, commercial, and a future sand & gravel mining operation.

#### III. FACILITIES

- A. POWER COMPANY: Connecticut Light and Power
- B. POWER PROXIMITY TO SITE: Facilities available from off site utility pole using a proposed riser pole.
- C. TELEPHONE COMPANY: AT&T
- D. PHONE SERVICE PROXIMITY: Same as power.
- E. VEHICLE ACCESS TO SITE: Access to the facility would be provided over a new 12' wide gravel access drive approximately 958' to the site.
- F. OBSTRUCTIONS: None
- G. CLEARING AND FILL REQUIRED: The compound will require clearing and grading to level the area. Some filling may be required. Detailed plans would be included in a Development and Management Plan ("D&M" plan) after any approval of the facility which may be issued by the Connecticut Siting Council.
- IV. LEGAL
  - A. PURCHASE [] LEASE [X]
  - B. OWNER: Lawrence Becker
  - C. ADDRESS: Old South Willington Road, Willington, Connecticut

#### Candidate B: Facilities and Equipment Specification

#### I. TOWER SPECIFICATIONS:

- A. MANUFACTURER: To be determined
- B. TYPE: Self-Supporting monopole
- C. HEIGHT: 190' DIMENSIONS: Approximately 4½' in diameter at the base, tapering to approximately 2' at the top.
- D. LIGHTING: None as set forth in attached TOWAIR report

#### II. TOWER LOADING:

- A. AT&T up to 12 panel Antennas
  - a. Model P90-14-XVH-RR or equivalent panel antenna
  - b. Antenna Dimensions 48"H x 12"W x 6"D
  - c. Position on Tower 157' centerline mounted on low profile platform
  - d. Transmission Lines MFG/Model: Commscope Aluminum 1-5/8"
- B. Future Carriers 3 additional carriers can be accommodated.

#### III. ENGINEERING ANALYSIS AND CERTIFICATION:

The tower will be designed in accordance with American National Standards Institute TIA/EIA-222-G "Structural Standards for Steel Antenna Towers and Antenna Support Structures" and the 2003 International Building Code with 2005 Connecticut Amendment. The foundation design would be based on soil conditions at the site. The details of the tower and foundation design would be provided as part of the final D&M plan.

#### I. PHYSICAL IMPACT

#### A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the proposed facility. The construction and operation of the tower and related site improvements will have no effect on any watercourses or water bodies. Best Management Practices to control storm water and soil erosion during construction will be implemented. The equipment associated with the facility will discharge no pollutants to area surface or groundwater systems.

#### B. AIR QUALITY

Under ordinary operating conditions, the telecommunications equipment that would be used at the proposed facility would emit no air pollutants of any kind. Infrequent use of a generator would result in a small amount of emissions.

#### C. LAND

Some clearing and grading will be necessary in the compound area and access drive and best management practices implemented for any steep slopes. The remaining land of the lessor would remain unchanged by the construction and operation of the facility.

#### D. NOISE

The equipment to be in operation at the facility would not emit noise other than that provided by the operation of the installed heating, air-conditioning and ventilation system as well as a proposed generator to be used during power outages. Some construction related noise would be anticipated during facility construction, which is expected to take approximately four to six weeks. Temporary power outages could involve sound from an emergency generator.

#### E. POWER DENSITY

The cumulative worst-case calculation of power density from AT&T's operations at the facility would be 3.62% of the MPE standard. Attached is a copy of AT&T's Power Density Report dated September 20, 2010.

#### F. VISIBILITY

The potential visual impact of the proposed facility was determined by preparation of the attached Visual Resource Evaluation Report prepared by Vanasse Hangen Brustlin, Inc. The potential visibility of the proposed monopole was assessed within an approximate

two-mile radius using a computer-based, predictive view shed model and in-field visual analysis. As shown in the report and photo simulations, only 20 acres (less than one half of 1%) of the 8,042-acre study area would have views of the proposed tower above the tree canopy. The proposed monopole would not be visible from the Willington Town Green. There is intervening topography and vegetation in the area that serve to limit visibility.

#### II. SCENIC, NATURAL, HISTORIC & RECREATIONAL VALUES

The parcel on which the facility is located exhibits no unique scenic, natural, historic or recreational characteristics. The Connecticut State Historic Preservation Officer ("SHPO") determined that the proposed project will have no effect on archeological or historic resources. Additionally, the Connecticut Department of Environmental Protection Natural Diversity Database ("NDDB") map for the project area has been reviewed by the DEP and determined that there are no nearby threatened or endangered species present and accordingly no such impacts on same are anticipated.

Attachment 4(A)









DATE: 7/12/2010 1:05 PM FILE: W:\SAI CINGULAR\18301\SITES\1059 WILLINGTON B 1107\ZD\WILLINGTON-3 COMPOUND PLAN.DWG



DATE: 7/12/2010 1:11 PM FILE: W: \SAI CINGULAR\18301\SITES\1059 WILLINGTON B 1107\ZD\WILLINGTON-4 TOWER ELEVATION.DWG



DATE: 7/9/2010 5:00 PM FILE: W: \SAI CINGULAR \18301 \SITES \1059 WILLINGTON B 1107 \ZD \WILLINGTON-5 USGS.DWG



DATE: 7/9/2010 4:56 PM FILE: W: \SAI CINGULAR \18301 \SITES \1059 WILLINGTON B 1107 \ZD \WILLINGTON-6 AERIAL.DWG



#### Site Number: SR1107 Site Name: Willington B Site Address: Old South Willington Road, Willington, CT 06279

#### Access distances:

Distance of access over existing asphalt driveway: 0' Distance of access over new gravel driveway: 958' Total distance of site access: 958'

#### **Distance to Nearest Wetlands:**

79' from nearest grading extents to WLF13

#### **Distance to Property Lines:**

1,004' to the northern property boundary 871' to the southern property boundary 190' to the western property boundary 771' to the eastern property boundary

#### **Residence Information:**

There are 8 residences within 1,000' feet of the tower. The closest residence is 550' to the southwest and is owned by Mark and Cindy Wilson and is located at 52 Old South Willington Road, Willington, CT.

#### Tree Removal Count:

See Tree Inventory Letter.

#### Distance to Nearest Town (Must notify town if less than 2,500'):

The nearest town to the proposed tower is Tolland, CT. The town boundary is 8,775' to the west.



July 12, 2010

New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, CT 06067

RE: Tree Inventory Site: Willington B Old South Willington Road Willington, CT 06279 CHA # 15363-1059-43000

A site survey was completed at the subject site in June 2010. A requirement of the survey involved determining the location of all trees within the topographic survey area with a diameter at breast height of 6" or larger. As can be seen on the site access map, there are one-hundred fifteen (115) trees with a diameter of 6" or larger within the area of the proposed access road and compound which need to be removed for construction of the facility. The quantity and size of trees being removed is summarized in the below table:

Tree Diameter	Number of Trees to be Removed
6"	19
8"	10
10"	15
12"	16
14"	28
16"	11
18"	10
20"	4
24"	2
TOTAL	115

If you have any questions, comments or need further information, please do not hesitate to contact our office.

Very truly yours,

**CLOUGH HARBOUR & ASSOCIATES LLP** 

Paul Lusitan :

Paul Lusitani Project Engineer

W:\SAI Cingular\18301\Sites\1059 Willington B 1107\ZD\WILLINGTON-10 TREE INVENTORY 07-09-10.doc

Attachment 4(B)

# **Proposed Wireless Telecommunications Facility**

## Willington B Old South Willington Road Willington, Connecticut

Prepared for	New Cingular Wireless PCS, LLC 500 Enterprise Drive, Suite 3A Rocky Hill, CT 06057
Prepared by	<i>VHB</i> /Vanasse Hangen Brustlin, Inc. 54 Tuttle Place Middletown, CT 06457

August 2010

VHB

#### Visual Resource Evaluation

New Cingular Wireless PCS, LLC seeks approval from the Connecticut Siting Council for a Certificate of Environmental Compatibility and Public Need for the construction of a wireless telecommunications facility ("Facility") to be located on property off Old South Willington Road in the Town of Willington, Connecticut (identified herein as the "host property"). This Visual Resource Evaluation was conducted to evaluate the visibility of the proposed Facility within a two-mile radius ("Study Area"). Attachment A contains a map that depicts the location of the proposed Facility and the limits of the Study Area.

#### **Project Introduction**

The proposed Facility includes the installation of a 190-foot tall monopole with associated ground equipment to be located at its base. Both the proposed monopole and ground equipment would be situated within a fence-enclosed compound. The proposed project area is located at approximately 684 feet Above Mean Sea Level (AMSL). Access to the Facility would be provided via a proposed 12-foot wide gravel access drive.

#### Site Description and Setting

Identified in the Town of Willington Tax Assessor's records as Map 18/Lot 19, the host property consists of approximately 170 acres of undeveloped, wooded land. The proposed Facility would be located on the southern portion of the host property, roughly 950 feet north of Old South Willington Road. Land use within the general vicinity of the proposed Facility site and host property consists primarily of low-density residential development to the west, south and east; and undeveloped woodlands to the north. In total, the Study Area features approximately 79 linear miles of roadways, including portions of Route 32, Route 74 and Route 320.

The topography within the Study Area is generally characterized by rolling hills with ground elevations ranging from approximately 330 feet AMSL to just over 740 feet AMSL. The tree cover within the Study Area consists mainly of mixed deciduous hardwood species interspersed with stands of mature evergreen species and occupies approximately 6,576 acres of the 8,042-acre study area (82%). During the in-field activities associated with this analysis, a laser range finder was used to determine the average tree canopy height throughout the Study Area. Numerous trees were selected for measurement and the average tree canopy was determined to be 65 feet. The Study Area contains approximately 107 acres of surface water that includes portions of the Willimantic River, Fenton River, Halls Pond, Pelican Pond, Parizek Pond, Deversky Pond and several unnamed ponds.

#### METHODOLOGY

In order to represent the visibility associated with the Facility, VHB utilizes a two-fold approach incorporating both a predictive computer model and in-field analysis. The predictive model was employed to assess potential visibility throughout the entire Study Area, including private property and/or otherwise inaccessible areas for field verification. A balloon float and Study Area drive-through reconnaissance were also conducted to provide a height and locational representation, back check the computer model and obtain photographic documentation from publicly accessible areas. Results of the balloon float are analyzed and incorporated into the final viewshed map. A description of the methodologies used in the analysis is provided below.

#### Visibility Analysis

Using ESRI's ArcGIS® Spatial Analyst, a computer modeling tool, the areas from where the top of the Facility is expected to be visible are calculated. This is based on information entered into the computer model, including Facility height, its ground elevation, the surrounding topography and existing vegetation. Data incorporated into the predictive model includes a digital elevation model (DEM) and a digital forest layer for the Study Area. The DEM was derived from the Connecticut LiDAR-based digital elevation data. The LiDAR data was produced by the University of Connecticut Center for Land Use Education and Research (CLEAR) in 2007 and has a horizontal resolution of 10 feet. In order to create the forest layer, digital aerial photographs of the Study Area are incorporated into the computer model. The mature trees and woodland areas depicted on the aerial photos are manually traced in ArcGIS® GIS and then converted into a geographic data layer. The aerial photographs were produced in 2006 and have a pixel resolution of one foot.

Once the data layers are entered, a series of constraints are applied to the computer model to achieve an estimate of where the Facility will be visible. Initially, only topography was used as a visual constraint; the tree canopy is omitted to evaluate all areas of potential visibility without any vegetative screening. Although this is an overly conservative prediction, the initial omission of these layers assists in the evaluation of potential seasonal visibility of the proposed Facility. A conservative tree canopy height of 50 feet is then used to prepare a preliminary viewshed map for use during the Study Area reconnaissance. The average height of the tree canopy was determined in the field using a laser range finder. The average tree canopy height is incorporated into the final viewshed map; in this case, 65 feet was identified as the average tree canopy height. The forested areas within the Study Area were then overlaid on the DEM with a height of 65 feet added and the visibility calculated. As a final step, the forested areas are extracted from the areas of visibility, with the assumption that a person standing among the trees will not be able to view the Facility beyond a distance of approximately 500 feet. Depending on the density of the vegetation in these areas, it is assumed that some locations within this range will provide visibility of at least portions of the Facility based on where one is standing.

Also included on the map is a data layer, obtained from the State of Connecticut Department of Environmental Protection ("CTDEP"), which depicts various land and water resources such as parks and forests, recreational facilities, dedicated open space, CTDEP boat launches and other categories. Lastly, based on both a review of published information and discussions with municipal staff in Willington, it was determined that there are no locally-or state-designated scenic roads contained within the Study Area.

The preliminary viewshed map (using topography and a conservative tree canopy height of 50 feet) is used during the in-field activity to assist in determining if significant land use changes have occurred since the aerial photographs used in this analysis were produced and to compare the results of the computer model with observations of the balloon float. Information obtained during the reconnaissance is then incorporated into the final visibility map.

#### **Balloon Float and Study Area Reconnaissance**

On July 13, 2010 Vanasse Hangen Brustlin Inc., (VHB) conducted a balloon float at the proposed Facility to further evaluate the potential viewshed within the Study Area. The balloon float consisted of raising and maintaining an approximate four-foot diameter, helium-filled balloon at the proposed site location at a height of 190 feet. Once the balloon was secured, VHB staff conducted a drive-by reconnaissance along the roads located within the Study Area in order to evaluate the results of the preliminary viewshed map and to document where the balloon was, and was not, visible above and/or through the tree canopy. During the balloon float, the temperature was approximately 85 degrees Fahrenheit with calm wind conditions and partly sunny skies.

#### **Photographic Documentation**

During the balloon float, VHB personnel drove the public road system within the Study Area to inventory those areas where the balloon was visible. The balloon was photographed from a number of different vantage points to document the actual view towards the proposed Facility. Locations where the balloon was not visible are also included in order to provide documentation. The locations of the photos are described below:

View	Location	Orientation	Dist. To Site	Visibility
1	Intersection of Y Road and Route 320	Southwest	<u>+</u> 0.50-Mile	Year-Round
2	Route 74 (Tolland Turnpike)	Southwest	<u>+</u> 0.98-Mile	Not Visible
3	Willington Town Green	Southwest	<u>+</u> 1.01-Mile	Not Visible
4	Willington Town Hall Parking Lot	Southwest	<u>+</u> 0.90-Mile	Not Visible
5	Willington Center School Parking Lot	Southwest	<u>+</u> 0.89-Mile	Not Visible

3

Vanasse Hangen Brustlin, Inc.

View	Location	Orientation	Dist. To Site	Visibility
6	Lindsey Lane Cul-de-Sac	Northeast	<u>+</u> 0.89-Mile	Not Visible
7	Adjacent to #4 Lindsey Lane	Northeast	<u>+</u> 0.35-Mile	Year-Round
8	Adjacent to #87 Luchon Road	Northeast	<u>+</u> 0.29-Mile	Not Visible
9	Willington Woods Senior Houseing – Old Farms Road	Southwest	<u>+</u> 0.89-Mile	Not Visible
10	Willington Hill Cemetery	South	<u>+</u> 1.05-Mile	Not Visible

Photographs of the balloon from the view points listed above were taken with a Nikon D-80 digital camera body and Nikon 18 to 135 mm zoom lens. For the purposes of this report, the lens was set to 50mm. "The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm."

The locations of the photographic points are recorded in the field using a hand-held GPS receiver and are subsequently plotted on the maps contained in the attachments to this document.

#### Photographic Simulation

Photographic simulations were generated for two representative locations where the balloon was visible during the in-field activities. The photographic simulations represent a scaled depiction of the proposed Facility (a monopole) from these locations. The height of the Facility is determined based on the location of the balloon and a proportional monopole image is simulated into the photographs. The simulations are contained in Attachment A.

#### CONCLUSIONS

Based on this analysis, areas from where a 190-foot tall tower would be visible above the tree canopy comprise approximately 20 acres, representing less than one half of one percent of the total land area contained within the 8,042- acre Study Area. As depicted on the attached viewshed map, most of the year-round visibility occurs over open water on undeveloped land, including a portion of an unnamed pond located west of Route 320 (approximately 0.40-mile to the northeast of the proposed Facility); part of a large wetland area approximately 0.5 south of the proposed Facility Site; and open land located between 0.50-mile and 0.80-mile to the north/northeast. The viewshed map also depicts areas of year-round visibility limited to select portions of Route 320 and Lindsey Lane as well as several small areas located on portions of private properties to the north and southeast of the proposed Facility Area reconnaissance. As evidenced by the results of the balloon float and viewshed modeling conducted as part of this analysis, the intervening topography and abundance of

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<sup>&</sup>lt;sup>1</sup> Warren, Bruce. *Photography*, West Publishing Company, Eagan, MN, c. 1993, (page 70).

mature trees and other vegetation contained within the Study Area serve to confine potential year-round views to the areas described above. VHB estimates that select portions of approximately six (6) residential properties within the Study Area may have at least partial year-round views of the proposed Facility. This includes two (2) properties located along Route 320 to the northeast of the proposed Facility; one (1) residential property off Mirtl Road located approximately 0.50-mile to the southeast; one (1) property located along Luchon Road approximately 0.20-mile to the southwest; one (1) parcel located along Glass Factory Road approximately 1.40-mile to the northwest; and one (1) property located off Lindsey Lane located roughly 0.34-mile to the southwest.

The viewshed map also depicts additional areas where seasonal (i.e. during "leaf off" conditions) views through the trees are anticipated. These areas comprise approximately 18 additional acres are generally limited to the vicinity of the host property. VHB estimates that seasonal views may be achieved from select portions of approximately three (3) residential properties located within the Study Area. This includes one (1) residential property located off Route 320; (1) property located along Luchon Road and (1) property located off Old South Willington Road.

### Attachment A

## Photolog Documentation Map, Balloon Float Photographs, and Photographic Simulations

### PHOTOLOG MAP-





### MONOPOLE - 190 FT

### PHOTOGRAPHIC SIMULATION















🔵 AT&T

(VHB

### MONOPOLE - 190 FT

### PHOTOGRAPHIC SIMULATION







🔵 AT&T



VHB

### Attachment B

Viewshed Map



#### <u>Viewshed Analysis</u> <u>Proposed AT&T Wireless</u> <u>Telecommunications Facility</u> <u>Willington B</u> <u>Old South Willington Road</u> <u>Willington, Connecticut</u>

Viewshed analysis conducted using ESRI's Spatial Analyst.
 Proposed Facility height is 190 feet.
 Existing tree canopy height estimated at 65 feet.

 Study Area is comprised of a two-mile radius surrounding the proposed facility and includes 8,042 acres of land.

DATA SOURCES:

NOTE

Digital elevation model (DEM) derived from Connecticut LIDAR-based Digital Elevation Data (collected in 2000) with a 10-foot spatial resolution produced by the University of Connecticut and the Center for Land Use Education and Research (CLEAR); 2007
Forest areas derived from 2008 digital orthophotos with 1-meter pixel resolution; digitized by VHB, 2010
Base map comprised of Coventry (1983), Spring Hill (1983), Westford (1983) and Statford Springs (1983) USGS Quadrangle Maps
Municipal and Private Open Space data layer provided by CT DEP, 2004
CT DEP Property data layer provided by CT DEP, 2004
CT DEP Protected Open Space data layer provided by CT DEP, 2004
CT DEP Protected Open Space data layer provided by CT DEP, 2004
CT DEP Protected Open Space data layer provided by CT DEP, 2004
CT DEP boat launches data layer provided by CT DEP, Dec 2009
Scenic Roads layer derived from available State and Local listings
Map Compiled August, 2010
Legend





VHB 🥞 at&t

Attachment 4(C)

### **TOWAIR Determination Results**

#### **\*\*\* NOTICE \*\*\***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

#### **DETERMINATION Results**

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

**Your Specifications** 

NAD83 Coordinates	
Latitude	41-51-48.3 north
Longitude	072-16-28.3 west
Measurements (Meters)	
Overall Structure Height (AGL)	57.9
Support Structure Height (AGL)	NaN
Site Elevation (AMSL)	207.9
Churchung Tung	

Structure Type

TOWER - Free standing or Guyed Structure used for Communications Purposes

#### **Tower Construction Notifications**

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW

Tony Wells C Squared Systems 920 Candia Road Manchester, NH 03109 603-657-9702 Tony.Wells@csquaredsystems.com



September 20, 2010

**Connecticut Siting Council** 

Subject: New Cingular Wireless, Willington, 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 Old South Willington Road, Willington, 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/cm²)	Limit	% FCC MPE Limit General Public/ Uncontrolled
Ground Level	AT&T UMTS	187	880	1	500	0.0055	0.5867	0.94%
	AT&T UMTS	187	1900	1	500	0.0055	1.0000	0.55%
	AT&T GSM	187	880	3	296	0.0098	0.5867	1.66%
	AT&T GSM	187	1900	1	427	0.0047	1.0000	0.47%
		÷					Total	3.62%

**Summary**: Under worst-case assumptions, the RF Power Density at the proposed site located at Old South Willington Road, Willington, CT will not exceed 3.62% of the FCC MPE limit for General Public/Uncontrolled Environments.

Sincerely,

anthony ruells

Anthony Wells Managing Partner

Attachment 4(D)

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	July 9, 2	2010			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Ref: 41	502.10			
	Mr. Dan Commis State Hi One Co Hartford Re:	niel Forrest ssion on Culture & Tourism istoric Preservation Office nstitution Plaza, Second Floor d, CT 06103 Proposed AT&T Wireless Telecommunica SR-1107 – Willington B	STATE HISTORICI Date 7.20.10	PRESERVATIO	TY SHPO
		Old South Willington Road Willington, Connecticut		e Enstruction	27122970001009894 10.00000202169

Dear Mr. Forrest:

1.2

Vanasse Hangen Brustlin, Inc. (VHB) has been retained by SAI Communications representing AT&T Mobility (AT&T) to review environmental resource information outlined in 47 CFR Ch.1 § 1.1307 sections (a) and (b) for environmental consequences pursuant to the Federal Communications Commission ("FCC or Commission") requirements. VHB determines the presence of resources listed under the National Environmental Policy Act (NEPA) on or near sites where AT&T proposes to locate a facility. Results of this screening process for the above referenced proposed facility in Willington are depicted on the enclosed Cultural Resources Screen map.

AT&T is proposing to construct a new wireless telecommunications facility on portions of property located off of Old South Willington Road in Willington, Connecticut. The facility, consisting of a  $\pm 190$ -foot tall monopole, antennas, and associated ground equipment, will be installed within a 75' x 75' fenced enclosed compound within a 100' x 100' lease area. The proposed 20' wide access/utilities easement will initiate off of Old South Willington Road and then continue along a proposed 12' wide gravel access drive in a northwesterly direction towards the proposed compound lease area. AT&T antennas will be attached to the monopole at a centerline height of 187 feet above ground level and associated ground equipment will be installed at its base. The monopole and compound area will be developed for use by future wireless service providers. See attached Site Plans for details.

The Cultural Resources Screen did not reveal the existence of any historic resources listed or eligible for listing on the National Register of Historic Places or Indian religious sites at or within a 0.5-mile radius (the area of potential effects; APE) of the project area. As a result, it is VHB's opinion that no visual or direct effects exist within the APE.

A *Preliminary Archaeological Assessment* prepared by Heritage Consultants, LLC dated July 7, 2010 was completed for the proposed project area. Heritage Consultants, LLC concluded that "In conclusion, although the project area has been only minimally impacted by historic and modern occupation and landuse, its natural characteristics suggest that it is unlikely that significant intact cultural deposits exist within the Area of Potential Effect associated with the proposed cellular communications tower. As a result, it is the professional opinion of Heritage Consultants, LLC that additional archeological investigation of the proposed project are not warranted."



54 Tuttle Place Middletown, Connecticut 06457-1847 860.632.1500 = FAX 860.632.7879 email: info@vhb.com www.vhb.com



Connecticut Department of

### ENERGY & ENVIRONMENTAL PROTECTION

July 11, 2012

Mr. Dean Gustafson All-Points Technology Corp., P.C. 3 Saddlebrook Drive Killingworth, CT 06419 dgustafson@allpointstech.com

Project: New Telecommunications Facility Locations Site A: Tolland Turnpike, Site B: Old South Willington Road in Willington, Connecticut

Request No.: 201205507

Dear Mr. Gustafson,

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed new telecommunications facility locations, Site A: Tolland Turnpike and Site B: Old South Willington Road in Willington, Connecticut. I have determined that the proposed activities outlined in your request will not impact any extant populations of Federal or State Endangered, Threatened or Special Concern Species that occur in the vicinity of either of these two sites.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or <u>dawn.mckay@ct.gov</u>. Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEEP for the proposed site.

Sincerely,

Dawn m. moka

Dawn M. McKay Environmental Analyst 3

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