

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

Application ID: 59811302018132708
Application Status: In Progress - DHCD
Program Name: Virginia Telecommunications Initiative 2019
Organization Name: Giles County
Organization Address: 315 North Main Street
Pearisburg, VA 24134
Profile Manager Name: Missy Bray
Profile Manager Phone: (540) 921-2525
Profile Manager Email: mbray@gilescounty.org

Project Name: Western Giles County Fixed Wireless Coverage
Project Contact Name: John Ross
Project Contact Phone: (540) 921-2527
Project Contact Email: jross@gilescounty.org
Project Location: 315 North Main Street
Pearisburg, VA 24134-1522
Project Service Area: Giles County

Total Requested Amount: \$589,444.00
Required Annual Audit Status: Accepted

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$589,444.00	\$266,256.00	\$855,700.00
Construction	\$573,850.00	\$259,250.00	\$833,100.00
Other: grant admin/environmental	\$15,594.00	\$7,006.00	\$22,600.00
Total:	\$589,444.00	\$266,256.00	\$855,700.00

Budget Narrative:

A detailed budget includes costs for each of the four backhaul sites (ranging from \$5,200 to \$23,600 per site) and 37 master or micro sites (ranging from \$10,850 to \$20,450 per site). Customer equipment and installation costs are also included in the grant to offset the upfront expenses for up to 750 customers who sign up with Gigabeam. Grant administration (to include environmental reviews and Davis Bacon Act wage compliance) is also included at a cost of \$22,600. Because Giles County has procured Gigabeam's partnership through a PPEA RFP, there are no additional procurement or bidding costs associated with this project. A detailed breakdown of site costs and customer equipment and installation are attached to this application.

Questions and Responses:

1. Project Area

Provide a map and description of the proposed geographic area including specific boundaries of the project area e.g.; street names, local and regional boundaries, etc. Explain why and how the project area(s) was selected. Attach a copy of your map(s).

Answer:

The top priority identified in Giles County's 2018 Community Broadband Needs Assessment for Giles County conducted by the Center for Innovative Technology is "expanding access and capacity to the unserved and underserved areas is a top priority for the County." This project area was identified in the study as a priority residential and business area for expanding access and capacity based on community survey responses.

The map of the proposed service to be established through this project is attached as Project Area Map. The area includes Wolf Creek and Walker Valley as well as areas west of Route 100 and south of Route 460 in Giles County. This broadly covers nearly the entire western area of Giles County. Some coverage to the east of Route 100 (and explicitly outside of Pemtel's coverage area) will be provided by this project.

2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a map and list of

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

all existing providers (fixed and wireless), and speeds offered within the project area. Provide a detailed explanation of how this information was compiled and the source(s).

Answer:

The Center for Innovative Technology assisted Giles County in developing a broadband plan. As part of this study, a number of existing providers were identified and service areas broadly map based on the FCC Form 477 from 2016. These maps are known to be overstated service areas; a citizen survey deployed with this study also evaluates likely coverage areas of various internet access technologies.

Current providers identified in Giles County (with their service technology) include

- Frontier West Virginia DSL
- Paetec DSL
- Pemtel DSL
- US LEC DSL
- Verizon DSL
- SuddenLink Cable
- Citizens Fiber
- All Points Fixed Wireless
- WVVA.Net Fixed Wireless (Gigabeam)

Provider comments were collected during the survey period for the study as well. The report notes comments from Gigabeam, Citizens Co-op and Pemtel their challenges to expanding from their current service areas.

In the next step to expanding broadband, Giles County release a request for proposals under their PPEA policy to procure a private broadband service partner. This RFP was issued September 19, 2018 and five responses were received. Through the procurement process one provider was identified as most suitable for addressing the priority areas of need identified in the broadband plan. Giles County Board of Supervisors approved award and contract negotiations with Gigabeam as the recommended internet service provider to partner on broadband expansion. It is also worth noting Gigabeam is the only existing provider in Giles County who submitted a response to the RFP.

The public notice ad was published on November 28, 2018 for public comment, but none was received. Comments were solicited from the general public, giving other service providers an opportunity to comment on this specific project. A copy of the ad and certification are attached to this application.

3. Project Need/Description

To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

area is defined as an area with speeds of 10 Mbps/1 Mbps or less, and with less than 10% service overlap within the project area. Describe the anticipated service overlap with current providers within the project area.

Answer:

The unserved area is identified in the attached map entitled “Giles Un/Underserved Areas” noting areas that have speeds below the FCC defined broadband speed of 25/3 and further noting areas with less than 10/1 speeds. The area does appear to have DSL service from USLEC of Virginia and fixed wireless service from All Points Broadband, but based on resident responses speeds are not adequate, broadband service but instead are typically DSL and satellite service. The area’s fixed wireless provider was identified in the broadband study as not providing residential broadband services.

4. Describe population both in terms of absolute numbers within the project area and the eligible users that will be served by the proposed project. Describe the basis for these projections.

Answer:

The project area includes 5,791 people based on 2016 ACS data; this includes 1,187 people under the age of 17 (i.e., school children and those who will enter primary school in the coming years). The population is distributed across 2380 households in the project area.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area.

Answer:

The project area also includes 60 businesses. In the county-wide survey conducted for the broadband study, 42% of business respondents reported their internet service as inadequate. There are two police stations and two schools in the project area that could be served by this project.

6. Provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also provide all actions to be implemented to reach the identified potential customers within the project area.

Answer:

The number of households (2380) and businesses (60) were identified by US Census tract roughly matching the service area identified in the attached map of coverage provided by Gigabeam. The number of households anticipated to adopt service (476) is based on Gigabeam’s conservative estimate of a 20% take rate; the provider did note in rural areas where no internet access previously existed the take rate has gone as high as 40% (952). The coverage mapping done by Gigabeam can be recreated on the exact coordinates to confirm the coverage areas at the completion of the project.

Gigabeam is working on plans to offer faster packages (up to 100 Mbps) for its entire network in the near future

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

for around the same pricing structure. They would market the service in the proposed areas in conformity to current marketing plans including:

- Door hangers
- Radio Ads
- Social Media
- TV ads
- Newspaper ads
- Community events

Based on conversations with other areas where new service has been introduced and confirmed in Gigabeam's experience, residents see the company doing the preliminary field work and construction near their homes and inquire about the coming service – even asking if they can be connected right there and then. While this is a passive marketing role for the provider, it will also serve as a marketing piece for launching the service and acquiring new customers.

7. A statement whether the proposed project is targeting the “last mile,” “middle mile,” or “backbone” portion of the broadband infrastructure.

Answer:

The proposed project will build last mile connections to businesses and residents in the area through microsites closest to customer locations with a backhaul system to relay with master sites that make middle mile connections. These master sites include the towers that will connect to this project and new backhaul sites Whitegate, Wolf Creek and Route 100. The tower to be constructed at Spruce Run under an ARC grant will complete the coverage of this area envisioned by the broadband provider and provide system redundancy.

8. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

Answer:

Gigabeam Networks will own any built infrastructure after project completion. As the system operator, Gigabeam is best positioned to maintain the infrastructure in good repair that will ensure the return on the funder's and Gigabeam's investment. Formal agreements to ensure DHCD's investment is protected for the purpose in which was intended can be prepared and signed with the Gigabeam confirming needs of the grant will be met for a minimum of three years following project completion. Any leases on existing facilities owned by other individuals will be executed by Gigabeam at their own risk; the equipment attached to these facilities for this project will be owned by Gigabeam.

9. Provide a description of the broadband service to be provided, including estimated download and upload speeds, whether that speed is based on dedicated or shared bandwidth, and the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate.

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Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

The provider has guaranteed speeds of 50 Mbps per second which is in line with the speeds offered through their network footprint (which includes 7 other counties in West Virginia, Virginia, and Kentucky). These speeds are on a shared bandwidth provided over a Fixed LTE network.

10. Provide a description of the network system design used to deliver broadband service from the network's primary Internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Also describe specific advantages of using this technology. Provide a detailed explanation on how this information was compiled and source(s). For wireless projects, provide a propagation map including the proposed project.

Answer:

The coverage area for the project is in a very rural area of Giles County with several valleys and rolling hills to get access into. These types of diverse topography's require a mixture of technology and design to get adequate coverage to all locations.

Our proven design proposal utilizes microsite deployments to get service into hard to reach areas with fast dependable service at minimal expense. To get connectivity to the customer, access points and ENodeB's (LTE access points) are installed on the main backhaul towers as well as these microsities. ENB's can support up to 96 customers per radio with speeds in excess of 100Mbps. They utilize the newly formed CBRS (Citizens Broadband Radio Service) spectrum made available by the FCC in the 3.5-3.7Ghz range. CBRS spectrum will be usable in 2020 and until then the project equipment will use our licensed 3.65-3.7ghz NN spectrum (it will be merged into CBRS in 2020). All of the proposed equipment supports this transition.

A microsite is a small site typically on a utility pole or even on existing structures to relay coverage into hard to reach areas. Microsities are interconnected to each other in "legs" that go back to a master backhaul site. These backhaul links will utilize licensed 11Ghz frequency radios or unlicensed 24Ghz radios to provide up to gigabit speeds to the site. Each microsite is designed to support between 6-40+ clients with speeds of 100Mbps+ to clients. A typical microsite includes:

- Structure (Utility pole or building)
- Power (AC if available or solar power)
- Backhaul radios (to a main site or other microsite(s))
- AP/ENB's (1-4 depending on coverage needs and population density)

Master sites are larger towers that provide service directly to customer as well as the backhauling to microsities. This project will utilize already existing GigaBeam master sites located on Peters Mountain, Butt Mountain, Dismal Mountain, and near Newport. Currently these sites are used to backhaul to our active network in Bland County, northern Giles county (Pearisburg, Rich Creek, and Glen Lyn) as well as Monroe County and beyond. This project will expand and incorporate these sites to provide the backhauling to the microsities in the project area. All of these master sites and backhauls support gigabit speeds and are directed back to our fiber point of presence in Pearisburg and Bluefield, VA. This provides the speed necessary to provide services to the project area as well

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

as geographical redundancy to maintain near 100% uptimes.

There are basically four “legs” of microsites in this proposal with each feeding from a different master site. Dismal tower will support the Whitegate and Wilburn Valley/Sugar Run leg, Newport tower will support the Bear Springs leg, the Wolf Creek 101.3FM tower support the Wolf Creek leg, and the Rt. 100 corridor will be supported directly from the Pearisburg Water tank site.

The grant would provide funding to purchase all the hardware and equipment to be installed on the Master towers to support the expansion as well as all the microsites. This would include utility poles, solar power equipment and batteries, backhaul radios, AP radio equipment, and customer radios. GigaBeam Networks would offer in-kind all labor and equipment (tools, derrick and bucket trucks, etc) to build the microsites and install the equipment on the master sites as well as all the supplies (Surge, router, cabling) and labor for customer installation.

11. Project Readiness

What is the current state of project development (i.e. planning, preliminary engineering, final design, etc.)? Prepare a detailed project timeline or construction schedule, which identifies specific tasks, staff, contractor responsible(s), collection of data, etc., and estimated start and completion dates. The timeline should include all activities being completed within 12 months of contract execution with DHCD.

Answer:

The design of the network improvements has been completed. This project is requesting construction funds to acquire equipment and install it with service available in the project area by project completion.

The following work plan includes permitting for the sites, purchase of equipment, and construction. Because this is a wireless solution, all construction will be at specific sites with the installation of telecommunication equipment.

Environmental review to ensure the project complies with federal requirements will be completed by the Regional Commission. This is estimated to take 3 months. Permitting is estimated to take up to three months, with sites being permitted concurrently. Construction can be done within two months. Gigabeam keeps much of the required equipment and construction materials in stock, what is not available in their inventory can be ordered and delivered quickly. Davis-Bacon wage compliance will be conducted by the Regional Commission.

The environmental review can begin as soon as May 17, 2019 and the project complete by May 17, 2020. Based on the time estimate, the environmental review would initiated in May and complete by mid-August with no delays. Permitting would be initiated in August and complete by mid-October. Construction could begin as early as October 16 and, weather permitting, be completed by February 16. Customer equipment installation will be completed as customers sign up for service, with work to be completed by April 30. Project closeout would then be conducted in the last two months to begin as early as March 15.

12. Matching funds: Provide a description of the matching funds the applicant and co-applicant will invest in the proposed project, (VATI funding cannot exceed 80% of total project cost). The Funding Sources Table should be completed.

i. For each element of matching funds in the description, indicate the type of match (cash, salary expense, or in-

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

kind contribution).

ii. Identify whether the applicant or co-applicant is responsible for providing each element of the proposed matching funds.

iii. Include copies of vendor quotes or documented cost estimates supporting the proposed budget.

Answer:

Giles County is requesting VATI funds in the amount of \$589,444 to cover 69% of all expenses – construction and associated equipment to be purchased and completed by Gigabeam as well as grant administration, environmental review, and Davis Bacon Act wage compliance to be completed by the New River Valley Regional Commission. Gigabeam has committed to providing 31% of the project costs, \$259,250 of which will be an in-kind match with the balance in cash. GigaBeam Networks would offer in-kind all labor and equipment (tools, derrick and bucket trucks, etc.) to build the microsites and install the equipment on the master sites as well as all the supplies (surge, router, cabling) and labor for customer installation. GigaBeam Networks estimates that an additional two full time employees will be added to build and support this project.

Gigabeam’s budget estimates are attached to this application.

The VATI Funding Sources Table is attached to this application demonstrating the investments by each participant. The derivation of costs and the detailed cost estimates for construction provided Gigabeam are also attached to this application.

13. Identify key individuals, including name and title, who will be responsible for the management of the project. Describe their role and responsibilities for the project. Present this information in table format.

Answer:

Key Individual	Organization	Role & responsibilities
Michael Clemons, Owner	Gigabeam Networks	System construction and operation
Chris McKlarney, Administrator	Giles County	Local government lead for permitting, technical assistance
Kevin Byrd, executive director	Regional Commission	project oversight
Christy Straight, Senior Planner	Regional Commission	day-to-day project management and grant administration

14. Applicant and Co-Applicant: A description of the public-private partnership involved in the project. Detail the local government assistance: Local government co-applicants should demonstrate assistance to project that will lower overall cost and further assist in the timely completion of construction, including assistance with permits, rights of way, easement and other issues that may hinder or delay timely construction and increase cost.

i. If the partnership is formalized in a written agreement provide a copy of that agreement.

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

ii. If the partnership has not been formalized, provide a short description of the project management role, financial commitment, or other contribution to the project for the applicant and co-applicant and any additional partners.

Answer:

The County solicited proposals through the Public-Private Education Facilities and Infrastructure Act of 2002 and Giles County PPEA Policy. Through this process Gigabeam was selected to build the network to serve customers at speeds of 10Mbps upload and better, contingent upon award of a grant. Pricing plans are expected to range from \$39 to \$119, speed dependent.

The board of supervisors took action at their November 6, 2018 meeting to award the PPEA contract to Gigabeam after five responses were received to the request for proposals issued on September 19, 2018. These actions are noted in the board minutes attached to this application.

15. Project Budget and Cost Appropriateness

Applicants shall provide a detailed budget as to how the grant funds will be utilized, including an itemization of equipment and construction costs and a justification of proposed expenses. Expenses should be substantiated by clear cost estimates.

Answer:

A detailed budget includes costs for each of the four backhaul sites (ranging from \$5,200 to \$23,600 per site) and 37 master or micro sites (ranging from \$10,850 to \$20,450 per site). Customer equipment and installation costs are also included in the grant to offset the upfront expenses for up to 750 customers who sign up with Gigabeam. Grant administration (to include environmental reviews and Davis Bacon Act wage compliance) is also included at a cost of \$22,600. Because Giles County has procured Gigabeam's partnership through a PPEA RFP, there are no additional procurement or bidding costs associated with this project. A detailed breakdown of site costs and customer equipment and installation are attached to this application.

16. The cost benefit index is comprised of three factors: (i) state share for the total project cost, (ii) state cost per unit passed, and (iii) the internet speed. From these statistics, individual cost benefit scores are calculated. Finally, the three component scores are averaged together and converted to a 30 point scale to form a composite score.

Answer:

i. This application requests 70% of project costs from the state VATI program - \$589,444.00.

ii. The cost per unit passed ("passed" referring to the fixed wireless availability for a household or business) for 2320 households and 60 businesses (2380 units total) is \$386.89 per unit of the total project cost. The state's share of cost would be \$267.24 per unit.

iii. Internet speeds will be available as high as 75x5Mbps for businesses and 50x3 Mbps for residences. All customers will have access to at least 10x3 MBps speeds.

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

17. A description of applicant and co-applicant's history or experience with managing grants and constructing broadband communications facilities in the Commonwealth of Virginia and elsewhere.

Answer:

Giles County – permitting, technical assistance

Giles County has planning and engineering staff experienced in reviewing telecommunications applications to ensure compliance with county ordinances and assist applicants (such as Gigabeam) on completing the process expeditiously and addressing any concerns with applications submitted. The county will also provide support in acquiring site leases and identifying potential locations should that be necessary for installation of the broadband infrastructure of this project and with additional expansion this project will enable.

Gigabeam Networks – System construction and operation

GigaBeam Networks, LLC is a locally owned and operated WISP (wireless internet service provider) with offices in Rich Creek and Bluefield, VA. GigaBeam Networks started as WVVA.net, a dialup provider in the late 90's and expanded to offering fixed wireless broadband access in 2004. Currently, GigaBeam Networks offers service in 8 regional counties over 3 states (Virginia, West Virginia, and Kentucky). As shown in the attached maps, GigaBeam Networks has invested heavily in Giles County this summer to extend their Fixed LTE network. This work will continue those efforts.

Currently, residential speeds up to 50Mbps are offered throughout the network footprint and up to 100Mbps coming soon. Also being deployed is one of the first "5G" wireless networks in Bluefield that will offer speeds up to 1Gbps. Slated for this fall is the addition of GigaStream TV, an affordable alternative to traditional television followed by GigaVoice Phone services. WVVA.net Inc. is the parent company of GigaBeam Networks, LLC and has 100% ownership. WVVA.net Inc. is 100% owned by Michael Clemons, President and founder.

GigaBeam Networks has been in the ISP business for over 21 years. A full staff of qualified personnel provides every aspect of operating the business as well as constructing new sites. All climbers are Comtrain certified and GigaBeam Networks is an approved American Tower Company contractor. Staff also has extensive knowledge in designing, engineering, and maintaining large scale networks. GigaBeam Networks' primary focus is local, friendly customer support.

Regional Commission – project administration

The Regional Commission has provided grant administration and project management on DHCD grants and delivering services aligned to DHCD goals to our local governments as a planning district commission for more than 40 years. Mr. Kevin Byrd, executive director, has been involved in DHCD projects in a management and participatory capacity for the last eight years and will provide oversight of the project.

Christy Straight, Senior Planner with the Regional Commission will provide the day-to-day project management and grant administration. She has been a planner with the Commission for 10 years. In that time she has provided grant administration for a number for federally-funded projects as well as state-funded projects that have federal compliance components. Her most relevant experience in this capacity includes

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

- ARC grant for New River Community College Access to Community College Education (VA-18993), total project \$153,876 (50% funding), current
- FEMA/VDEM Regional Hazard Mitigation Plan for the NRV, total project \$74,029 (50% funding), 2017
- VDOT Safe Routes to Schools, Montgomery County Auburn ES/MS Trail, total project \$265,000 (100% funding), closed 2018
- US EDA (with additional ARC funding), Floyd Innovation Center, total project \$2,335,624.63 (50% EDA/ARC funding, leveraged with \$1,169,255 in Tobacco Commission grant funding), closed 2014
- US EDA, NRV Commerce Park/Pulaski County water and sewer improvements, total project \$7,744,401 (EDA funding \$3,003,401, leveraged with a Rural Development loan), closed 2012

18. Service

Describe the Internet service offerings to be provided after completion of this project and your price structure for these services. The service offerings should include all relevant tiers.

Answer:

Initial speeds would be up to 50Mbps and up to 100Mbps being offered as Gigabeam adds that product to their network wide lineup. TV service would also be available starting at \$30/month.

The current business pricing structure is:

- 25x2Mbps - \$89
- 50x3Mbps - \$109
- 75x5Mbps - \$119
- Custom plans up to 1Gbps

The current residential pricing structure is:

- 10x3 Mbps - \$39/month
- 25x2 Mbps - \$59/month
- 50x3 Mbps - \$79/month

All of our plans have no data caps and have no extra taxes surcharges or hidden fees. We charge a \$49 installation fee with a 1 year agreement and offer a \$10/month managed network service. The only other fee is \$1/month to receive a paper bill.

19. Additional Information

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

Any other equitable factor that the applicant desires to include.

Answer:

This project is part of a larger effort to bring full broadband coverage to unserved areas of Giles County. By building this project, the local provider will be able to deliver currently unavailable broadband service and expand their existing service network as well as build redundancy into the system for service in other areas. This project is complementary to other efforts in the County and will bring them closer to have full coverage, leveraging resources for deployment sooner rather than later in other parts of the county.

Attachments:

Derivation of Cost (Project Budget)

DerivationOfCosts1214201831942.pdf

Project Management Plan

ProjectMgmtPlan12142018123642.pdf

Supporting documentation for costs estimates

VendorQuoteCostEstimates1214201832101.pdf

Map(s) of project area, including proposed infrastructure

ProjectAreemap1214201834705.pdf

Map(s) or schematic of existing broadband providers (inventory of existing assets)

Existingproviders12142018123654.pdf

Documentation of relationship between applicant and co-applicant (formal or informal)

Relationshipofproviderandcounty12142018123702.pdf

Two most recent Form 477 submitted to FCC

GigabeamFCCForms2017201812142018123706.pdf

Documentation for in-kind contributions, including value(s)

GigabeamCommitmentLetter1214201832114.pdf

Application to DHCD Submitted through CAMS

Giles County

Western Giles County Fixed Wireless Coverage

Documentation supporting project costs (i.e. vendor quotes)

VendorQuoteCostEstimates1214201832120.pdf

Documentation of source of match funding

GigabeamCommitmentLetter1214201832202.pdf

Documentation that proposed project area is unserved based on VATI criteria

Unservedareas12142018123725.pdf

Documentation that proposed project area is not designated for Connect America Funding (CAF)

CAFfundingareasmapped12142018123731.pdf

Funding Sources Table

VATIFundingSourceTable1214201832215.pdf

(Optional) || Documentation of Public Comment Period

broadbandprojectad12142018123749.pdf

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construction - 4 backhaul sites, 37 microsities					
Utility Pole	\$ 14,000	\$ 14,000	\$ -	Gigabeam	12/14/2018
Power	\$ 129,750	\$ 129,750	\$ -	Gigabeam	12/14/2018
Backhaul	\$ 155,600	\$ 155,600		Gigabeam	12/14/2018
AP equipment	\$ 162,000	\$ 162,000		Gigabeam	12/14/2018
Labor and equipment use (trucks, etc)	\$ 105,500		\$ 105,500	Gigabeam	12/14/2018
Grant Administration, Environmental Review, Davis Bacon Compliance	\$ 22,600	\$ 15,594	\$ 7,006	NRVRC	12/14/2018
Client Premise Installation					
Client Premise Equipment	\$ 112,500	\$ 112,500		Gigabeam	12/14/2018
Customer Installation Labor/supplies	\$ 153,750		\$ 153,750	Gigabeam	12/14/2018
Total	\$ 855,700	\$ 589,444	\$ 266,256		

Budget Breakdown

VATI Grant Contribution

Utility Poles (35 total)	\$ 14,000.00	
Solar Power Equipment/Batteries	\$ 129,750.00	
Backhaul Equipment	\$ 155,600.00	
AP Equipment	\$ 162,000.00	
Customer Premise Equipment	\$ 112,500.00	
Grant Administration	\$ 15,594.00	
Total	\$ 589,444.00	

GigaBeam Contribution

Labor and equipment use (trucks, etc)	\$ 105,500.00	
Customer Installation Labor/supplies	\$ 153,750.00	
Grant Administration	\$ 7,006.00	
Total	\$ 266,256.00	

Project total	\$ 855,700.00	
VATI portion	\$ 589,444.00	69%
Local portion	\$ 266,256.00	31%

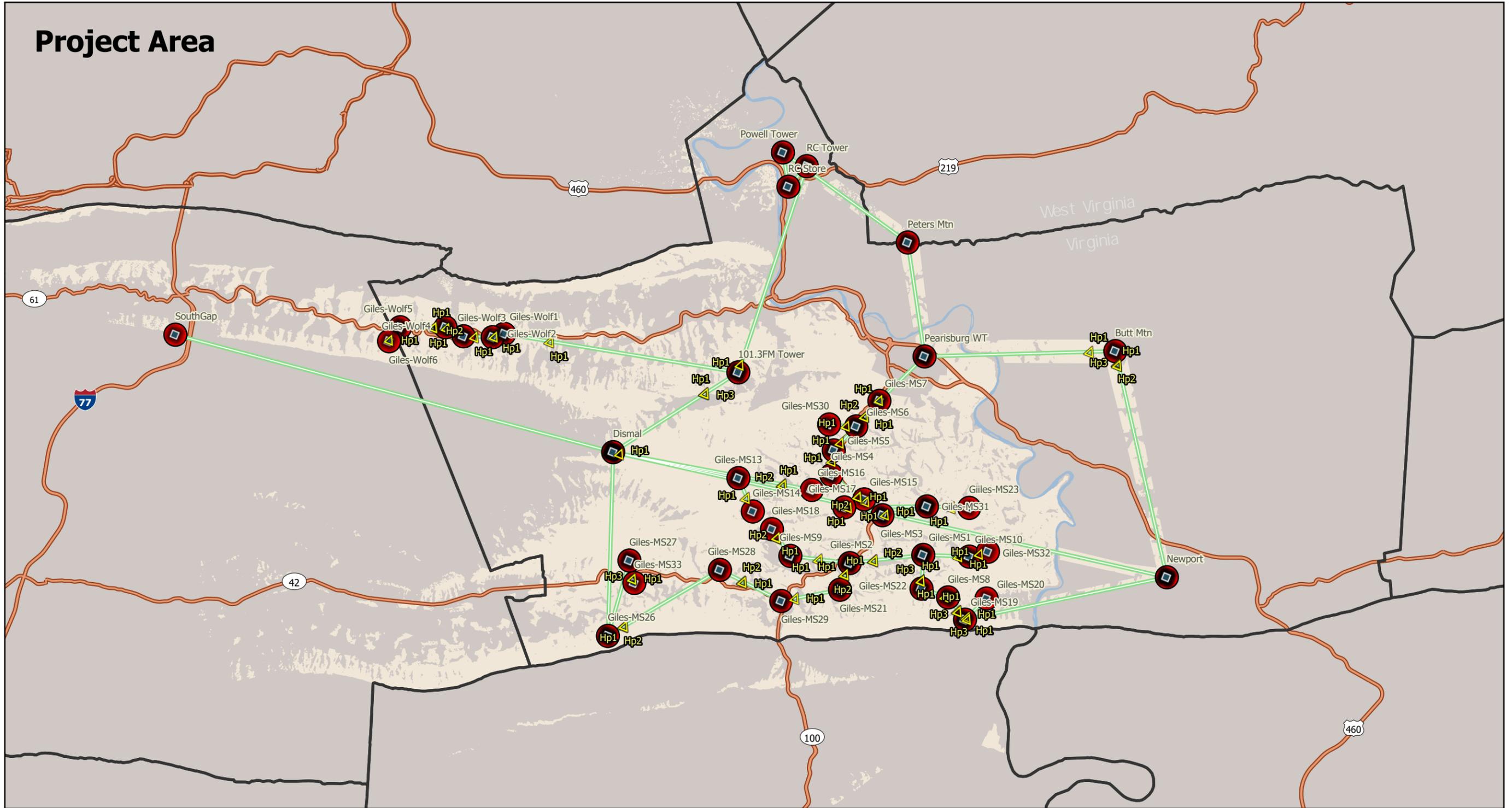
Cost estimates breakdown

CPE = radio that would be at the customer's site (\$150 each totaling \$120,000)

Customer installation supplies: surge protection, cabling, router and labor at each customer site (total of \$164,000)

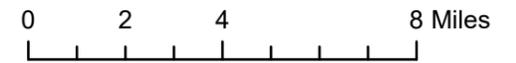
Gigabeam purchases equipment significantly under MSRP; pricing reflects this discounted cost. For example, The Customer radio model is Baicells Atom OD04-14 Gen2. MSRP is \$199.99.
<https://bit.ly/2PE6F0w>

Project Area



Created by NRVRC, 2018. Sources: Virginia Geographic Information Network, Virginia Department of Transportation, West Virginia Department of Transportation.

- County Boundaries
- Outside Project Area
- New River
- Coverage
- Roads



Giles County Broadband Providers that Report to the FCC

Frontier West Virginia DSL

Paetec DSL

Pemtel DSL

US LEC DSL

Verizon DSL

SuddenLink Cable

Citizens Fiber

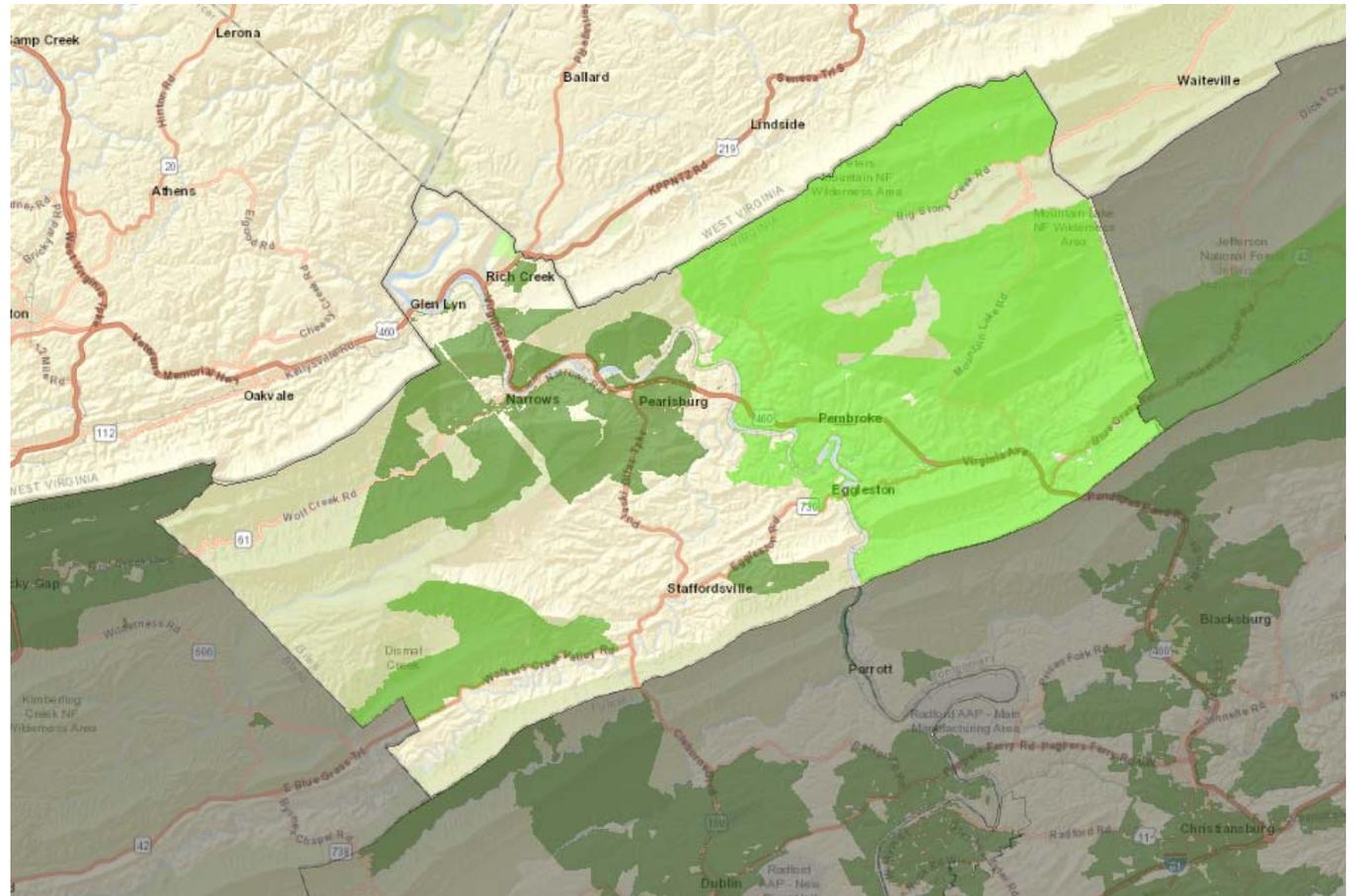
All Points Fixed Wireless

WVVA.Net Fixed Wireless

DSL Coverage

Providers

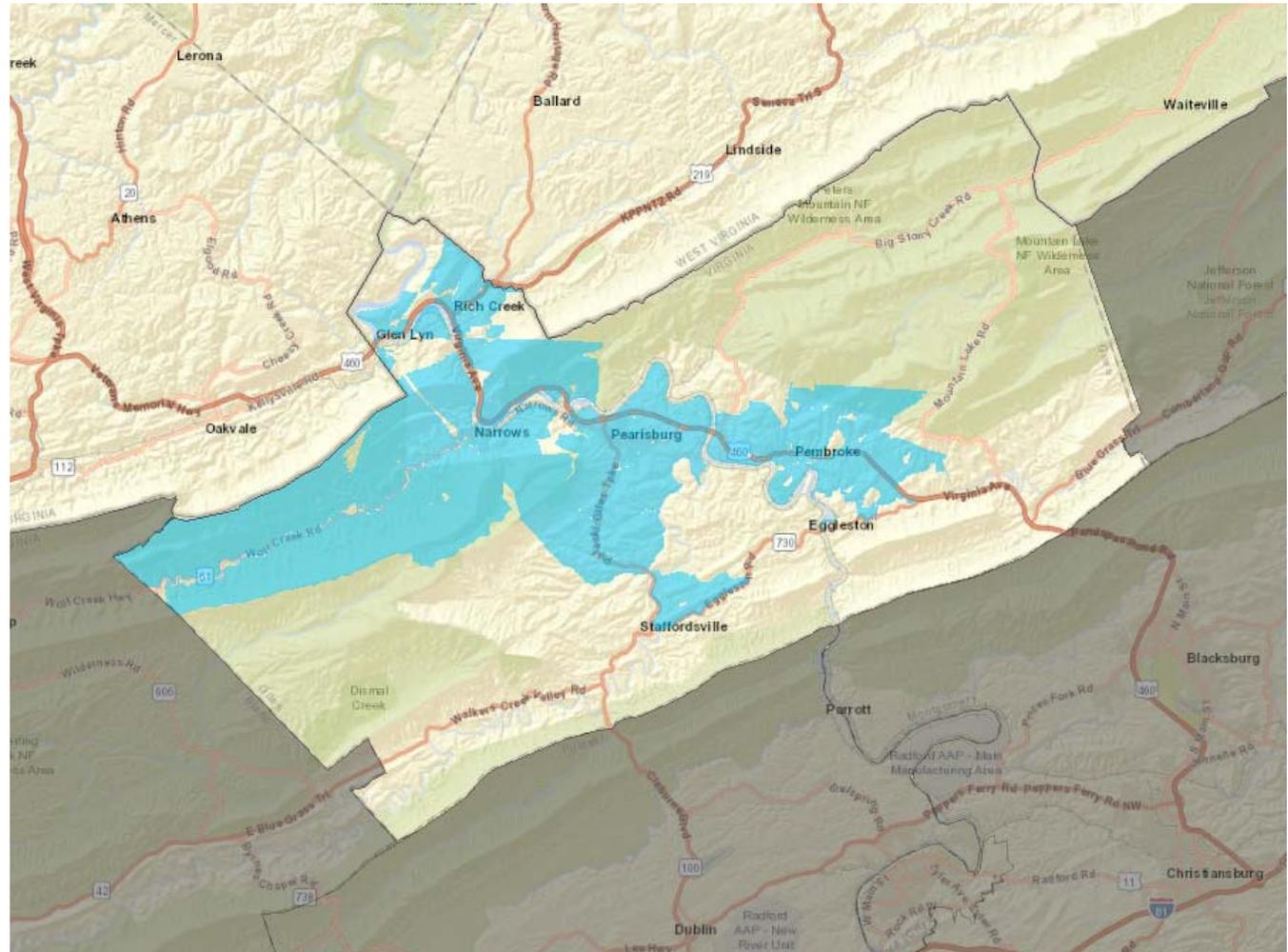
- FRONTIER WEST VIRGINIA
- PAETEC BUSINESS SERVICES
- PENMTEL
- US LEC OF VIRGINIA, LLC
- VERIZON VIRGINIA LLC



Cable Coverage

Providers

 SUDDENLINK COMMUNICATIONS

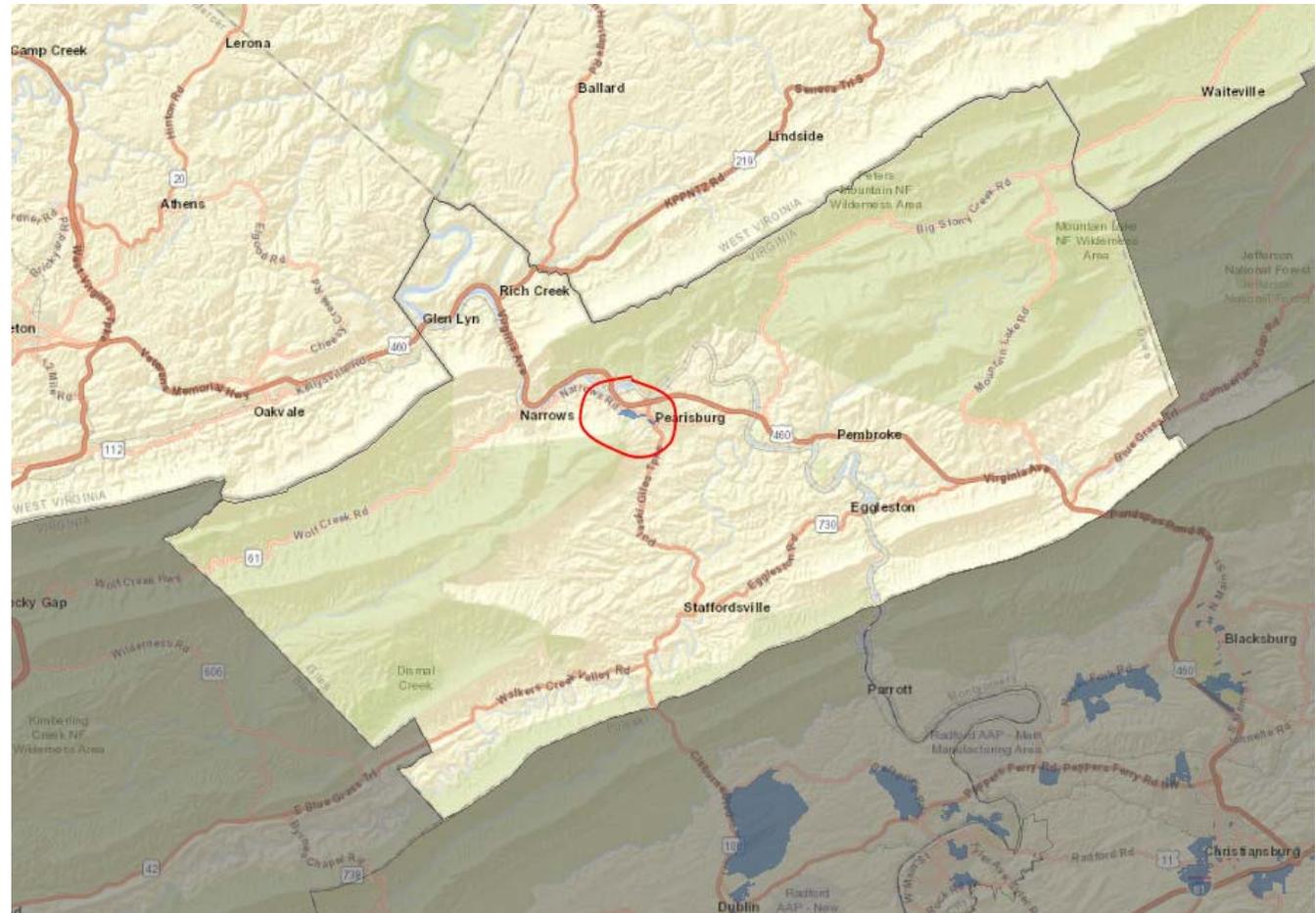


Fiber Service

(not commercial fiber routes)

Providers

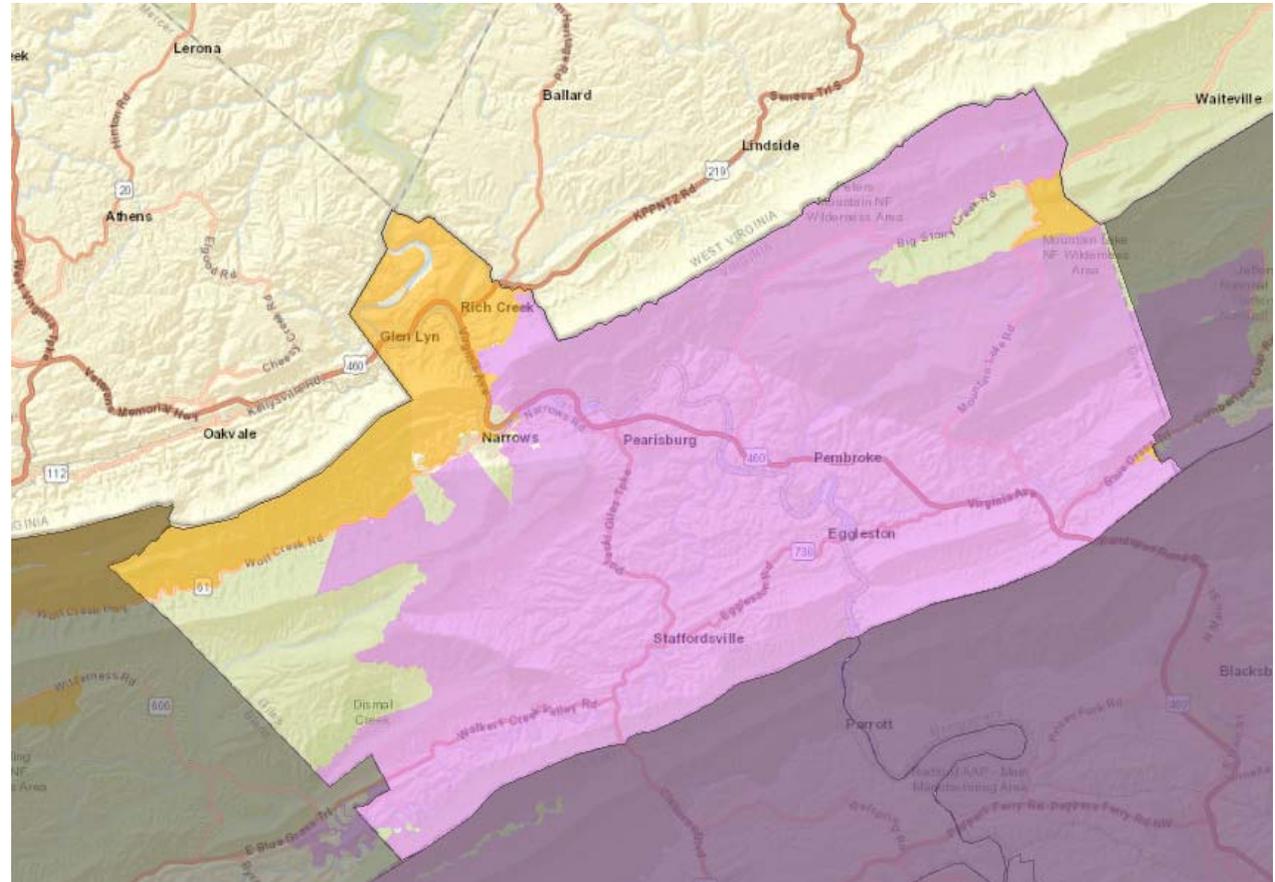
 CITIZENS TELEPHONE COOPERATIVE



Fixed Wireless Service

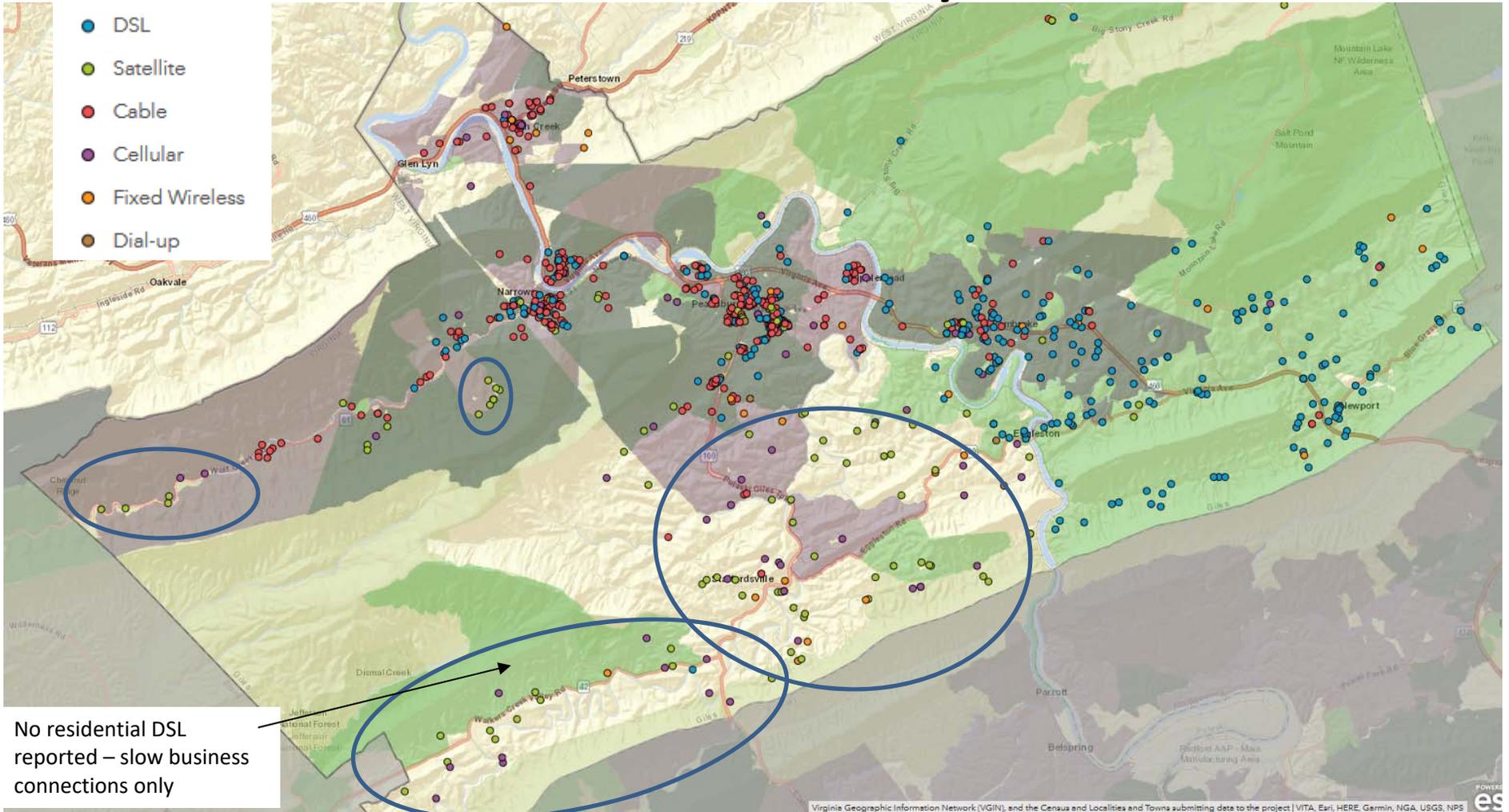
Providers

-  ALL POINTS BROADBAND
-  WVA.NET INC



Giles County

RESIDENTIAL CONNECTION TYPES



No residential DSL reported – slow business connections only

- DSL coverage
- Cable coverage
- DSL/Cable overlap

Areas of where only satellite and cellular responses exist within DSL or Cable coverage areas, likely exposes overstated coverage. Fixed wireless is reported in the circled areas but few reported responses. The fixed wireless provider West of Rt. 100 does not provide broadband speeds for residential services.

At the regular meeting of the Giles County Board of Supervisors held on Wednesday, November 7, 2018, at 3:00 PM in the Giles County Administration Office, located at 315 North Main Street, Pearisburg, the following were present unless noted absent.

Jeff Morris	Chair (Central District)
Richard McCoy	Vice-Chair (At-Large Supervisor)
Larry Jay Williams	Eastern District
John C. Lawson, Jr.	Western District
Paul "Chappy" Baker	At-Large Supervisor
Chris McKlarney	County Administrator
Catherine Ballard	Finance Director
Richard Chidester	County Attorney
Missy Bray	Board Secretary

CALL TO ORDER/INVOCATION

Mr. Morris, called the meeting to order, and Mr. McKlarney offered the invocation and led the Pledge of Allegiance.

APPROVAL OF MINUTES

Mr. Baker made a motion to approve the minutes of the October 18, 2018, as presented. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

CONSTITUTIONAL OFFICERS

Sheriff Morgan Millirons reported information regarding department activities. He stated there had been 2,246 inmate workforce hours for the year and reported numbers on warrants, civil papers, traffic summons and indictments. Sheriff Millirons related the new building is working out well with heating and cooling issues corrected. He indicated the drug dogs had been utilized at the schools in the spring and related civic and school programs continue to be presented. Sheriff Millirons reported the TDO transports continue but some state funding is being received. He indicated the department would be having no shave months in November and December with the funds raised to be donated to charity and related information about a new software and its reporting capabilities.

VDOT REPORT

Mr. David Clarke updated members regarding various road maintenance. He reported continued clean up from recent storm damage. Mr. Clark reported patching on Routes 649 and 460 along with grading and stone on some unpaved roads. He indicated some shoulder work had been done on Big Falls Road and Route 219, indicating he had taken a look at the embankment on Route 219, and it will need to be reworked. Mr. Clarke stated crews had worked on ditching and shoulders on Woodland Drive in Rich

Creek and related he would be taking a look at the undermining on Old Wolf Creek Road.

Mr. Baker stated the lights at the end of Big Stoney Creek Road are working well and reported large potholes on Route 460 and on the Pearisburg Ramp. He reminded Mr. Clarke of the need for brush cutting on Crickett Lane.

Mr. Williams inquired about the status of Penvir bridge. Mr. Bryan Reed related the approaches are being paved and guardrail has been installed, adding he anticipates the grooving in the decking will be completed by November 30, 2018. Mr. Clarke indicated the resolution for naming the bridge had been sent to the Transportation Committee; however, it did not make it in time to get on the November agenda. He expects it will be placed on the December agenda for consideration. Mr. Williams inquired if there would be any funds left over from the project. Mr. Reed related, with the engineering fee and price for the power line relocation, there would be no funds remaining. Mr. Williams inquired about the status of Skyview Lane. Mr. Reed reported he received confirmation from VDOT that the phone lines did not have to be relocated, and county staff would be moving the water lines. Mr. McKlarney indicated the water lines are on the work schedule. Mr. Reed related the county needs to take the design as far as it can before handing off the project to VDOT in order to save money. Mr. Williams inquired about the crossover at Rich Creek. Mr. Clarke stated it would be tough to design, and he is still working on it. Mr. Williams asked for an update on the speed study requested on Bear Springs. Mr. Clarke related he thought that had been reported on previously but would check on it. Mr. Williams related lights are needed at the park and ride on Route 460. Mr. Clarke stated they would need to be installed by AEP.

Mr. Williams inquired about the status of the Eggleston boat ramp. Mr. McKlarney reported the engineer had been going back and forth with VDOT but thinks all the required documents had now been submitted and are waiting on review. Mr. Williams requested an update on Woodland Drive. Mr. Clarke stated he had been working with Mr. Roger Jones on that issue and does not think there is anything else it needs. Mr. Williams related there is a big drop off at the guardrail near Patrick Enterprises on Route 460 as well as the guardrail near Giles High School. Mr. Clarke stated that would be one of the big projects he would like to get done. Mr. Williams related drainage issues on Camp Meeting Road with the runoff going into a resident's home. Mr. Clarke stated he had met and talked with the resident. Mr. Williams reported the trees are hanging into the road on Old Maybrook Road and are almost hitting the buses. He also reported the drain pipes are full on Deerfield Lane, the shoulders need work on Route 730 and water is running around a house from Walnut Grove Road. Mr. Williams indicated the crews had painted the deceleration lanes at Cascade Industrial Park but there was no sign and requested striping from Pembroke to Guinea Mountain due to the fog in that area.

Mr. Morris inquired about the status of the bridge being painted on Flat Hollow Road. Mr. Clarke related the bridge would be closed for a few weeks during the work, but it would have to be done during warmer weather in the spring.

SCHOOL BOARD REPORT

Dr. Arbogast updated members on current enrollments. He stated there are currently 2,373 students which is an increase of 11 from the previous month and a decrease of 33 from the same time last year. He presented a calendar of events for November as well as the STEM newsletter and reported information on the FBLA team from GHS who placed third in the Concord Business Challenge. Dr. Arbogast also reported a student from GHS had received the Junior Launch Appalachian Award from Bluefield College and the theater group from NHS had received some outstanding actor awards as a Class 1 regional theater and would be traveling to qualify for the state competition.

Mr. Lawson related he had passed along STEM content information to the STEM program.

PUBLIC COMMENTS

Mr. Bill Hogg – Mr. Hogg related he lives on Eggleston Road adding he had reported a pothole near Meredith Lane to VDOT in October that had not yet been fixed. He stated VDOT had paved from Route 100 on Eggleston Road but had done nothing to the Route 460 end of the road and invited members to drive the road to see how many people they pass crossing the middle line. He indicated the road has no posted speed limit and stated it was time something was done to fix the road.

Ms. Dawn Brown – Ms. Brown stated she resides on Robertson Mountain Road and requested help with the fencing ordinance. She related she has a neighbor two properties away from her that consistently have horses get out and end up on her property. Ms. Brown reported she has called animal control and the sheriff's office and is told there is nothing that can be done due to the current ordinance. She related the animals on her property cause a liability and interfere with the enjoyment of her own property. Ms. Brown requested the adoption of a changed or new ordinance in order to help her and others within the county having the same issue.

Members discussed the ordinance and the difference between the one in Giles and other jurisdictions. Mr. Chidester provided materials to members and gave the history of the ordinance and how legislation has changed. He indicated the current ordinance was adopted in 1977 and related animal control gets many calls regarding livestock. Mr. Chidester stated changing the ordinance naming the boundary line as the lawful fence places the burden on livestock owners to fence their livestock in and would give animal control the authority to issue citations. Members discussed the various options and when a citation would be written. Mr. Chidester related the citation piece is under state law and cannot be changed and indicated he worked with the officers and found them to be reasonable. Members concurred to take the information to the Agriculture Committee prior to a public hearing.

Mr. Baker made a motion to take the information regarding the fencing ordinance to the Agriculture Committee and set a public hearing date for December 20, 2018. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

OLD BUSINESS

LITERARY LOAN

Mr. Kyle Laux with Davenport and Company presented information to members regarding a literary loan. He indicated the loan would be at 2 percent interest for 20 years, would refinance and replace the higher rate loan, and reimburse the county for funds expended for the capital projects at the Tech Center and Eastern Elementary/Middle School. Mr. Laux stated the current loans are at a 3.8 percent interest rate, and the new loan would be a reduction in cost to the county of approximately \$208,000 and is subject to the funds being put into the state budget. He anticipates a closing date of December 2018. Mr. Laux outlined payments and differences to the existing loans and noted the process with the bond company and the mechanics behind the process as well as the advantages of moving forward with the literary loan.

Mr. Baker made a motion to move forward with obtaining a literary loan in the amount of \$7,359,000 at an interest rate of 2 percent. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

PLANNING COMMISSION RECOMMENDATION

Mr. John Ross related the Planning Commission had made a recommendation to approve a proposed rezoning of tax parcels 41-80C, 41-80B, 41-3-4, a portion of tax parcel 42-12, and a portion of tax parcel 42-12C from the RRA-1 (Rural Residential and Agriculture) zoning district to the B-2 (General Business) zoning district. These parcels and portions of a parcels are located west of the Town of Pembroke between the town limits and Pleasant Hill Lane. He indicated one parcel from the public hearing had been removed at the request of the owner.

Mr. Baker made a motion to approve the rezoning as recommended by the Planning Commission. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

EXTENSION REQUEST

Mr. McKlarney related a request had been received from the Extension Office to bring on the agent full time and indicated Ms. Jeannie Dudding was in attendance in case there were any questions. Ms. Dudding related she had been working part time at Bland and stated she had also been working to fill in at Virginia Tech in a vacant position but would not be once full time with Giles. Members discussed the cost of the summer intern and the effect it would have on the approved extension funding. Ms.

Dudding related the summer intern should have been billed in Fiscal Year 2018, and Ms. Ballard stated she would check on the expense.

Mr. McCoy made a motion to approve moving the extension position from part time to full time as requested. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

BROADBAND PROPOSALS

Mr. Lawson related the broadband committee had reviewed and concurred with the findings presented. He indicated only two of the proposals submitted covered the expectations of the group, adding one proposal was local and at approximately one third the cost of the other submission. Mr. Lawson stated the committee recommended moving forward with the proposal from Gigabeam.

Mr. Lawson made a motion to approve moving forward with negotiations with Gigabeam for the broadband project and applying with DHCH for project funding. Mr. Williams seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

NEW BUSINESS

SURPLUS VEHICLE

Mr. McKlarney reported one vehicle for surplus sale, noting a 2004 Ford Explorer 4x4 with vehicle number 48912. He related there were some others that will be recommended for surplus to the School Board.

Mr. McCoy made a motion to approve the surplus sale of vehicle number 48912, 2004 Ford Explorer 4x4. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

FIRE FUND DISBURSEMENT

Mr. McKlarney presented the breakdown of the Fiscal Year 2019 Fire Program fund disbursement. He related the fire departments not associated with a town each receive \$5,000, and the remaining funds are divided equally among all eight fire departments. He noted the formula had been in place for years.

Mr. McCoy made a motion to approve the Fiscal Year 2019 Fire Fund Disbursement as presented. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

Mr. Williams inquired if all the departments had their paperwork in order. Ms. Ballard indicated there was one department outstanding but would need to check to confirm which one.

Mr. Williams inquired about a payment to the Department of Forestry for fire suppression. Ms. Ballard stated it is a recurring payment but will check on the details of the invoice.

NEW RIVER HEALTH DISTRICT

Mr. McKlarney presented the 2019 agreement between the New River Health District and the county. He related the amount for the year is \$130,254 and is exclusive of the amount they pay for space at the old hospital.

Mr. McCoy made a motion to approve 2019 agreement with the New River Health District as presented. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

PEPPER'S FERRY SEPTAGE AGREEMENT

Mr. McKlarney presented the 2019 agreement with the Pepper's Ferry Regional Wastewater Authority. He related there is no cost to the county and he attempted to modify the agreement last year but the agency would not consider a change. Members discussed options, and Mr. Williams stated he would like to know how much the haulers are paying per year.

Mr. McCoy made a motion to approve 2019 agreement with the Pepper's Ferry Regional Wastewater Authority as presented. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

VJCCCA FUNDS

Mr. McKlarney presented a request from the Virginia Department of Juvenile Justice to allow for the return of unspent Fiscal Year 2018 VJCCCA funds in the amount of \$8,068.00. Mr. Chidester indicated, with the new staff, funds should be better utilized in the future.

Mr. McCoy made a motion approve the return of the unspent VJCCCA funds in the amount of \$8,068.00. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

NRVCS LINE OF CREDIT

Mr. McKlarney presented a request from New River Valley Community Services for approval in order for the agency to apply for a line of credit. He related the agency had previously held a line of credit with a real estate holding company and needed to change to a different financial institution. Mr. McKlarney stated the letter indicated the line of credit would only be used to ensure business functionality in the case of an emergency.

Members discussed the request and noted more information was needed in order for them to consider the request. Mr. Morris indicated there are more questions that need

to be answered, and members requested the total budget and total employees from NRVCS.

PAYMENT OF WARRANTS

Mr. Baker motioned to approve warrants in the amount of \$1,216,043.59, and Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

APPOINTMENTS

Mr. McCoy made a motion to reappoint Dr. Conley Painter to the Giles County Industrial Development Authority contingent upon his acceptance. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, and Mr. Morris, and Mr. Williams

EXECUTIVE SESSION

Mr. McCoy motioned to go into executive session as permitted by Virginia Code 2.2-3711, A (1) Personnel. Mr. Baker seconded the motion. The motion was approved 5-0 by roll call vote as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, and Mr. Morris, and Mr. Williams

Mr. McCoy motioned to return to open session and he certified that in the closed session just concluded, nothing was discussed except the matter or matters (1) specifically identified in the motion to convene in closed session and (2) lawfully permitted to be discussed under the provisions of the Virginia Freedom of Information act cited in that motion. Mr. Baker seconded the motion. The motion was approved 5-0 by roll call vote as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, and Mr. Morris, and Mr. Williams

CAPITAL EXPENDITURES

Mr. Baker made a motion to require County Administrator approval for any capital expenditure of \$2,500 or more. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, and Mr. Morris, and Mr. Williams

COMPENSATION TIME

Mr. McCoy made a motion to approve paying out all compensation time to Public Works and Maintenance employees and allowing overtime pay in excess of 40 hours worked per week. Mr. Baker seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

Members discussed limits and oversight. Mr. McKlarney related the supervisor would keep a close eye on overtime allowed.

ADJOURN

With no further business, the meeting was adjourned. The next meeting will be held on Thursday, November 15, 2018, at 6:30 PM. The meeting will be held at the Giles County Administration Office located at 315 North Main Street, Pearisburg.

APPROVED:

Chair

ATTEST:

Clerk

At the recess meeting of the Giles County Board of Supervisors held on Thursday, September 20, 2018, at 6:30 PM, in the Giles County Administration Office, 315 North Main Street, Pearisburg, the following were present unless noted absent:

Jeff Morris	Chair (Central District)
Richard McCoy	Vice-Chair (At-Large Supervisor)
Larry Jay Williams	Eastern District
John C. Lawson, Jr.	Western District
Paul "Chappy" Baker	At-Large Supervisor
Chris McKlarney	County Administrator
Catherine Ballard	Finance Director
Richard Chidester	County Attorney - Absent
Missy Bray	Board Secretary

CALL TO ORDER/INVOCATION

Mr. Morris called the meeting to order, and Mr. McKlarney offered the invocation and led the Pledge of Allegiance.

APPROVAL OF MINUTES

Mr. Baker motioned to approve the September 5, 2018, minutes as presented. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris, and Mr. Williams

PUBLIC COMMENTS

Mr. Jeff Bucklen – Mr. Bucklen related he has been a teacher at Narrows Elementary for 20 years and provided background and family information. He also provided information regarding his contract and household financial issues, stating he was worse off than he was 10 years ago. Mr. Bucklen presented information regarding his child with special needs and the possibility of taking his other child out of JCA to help make ends meet. He related he and his wife have taken on additional work, which is taking time away from their children as well as church and school functions. Mr. Bucklen indicated there is no doubt the state needs to do more to increase teacher pay, but pointing fingers does not make ends meet. He related, for the first time, he is looking at teaching positions in the surrounding localities with better pay and benefits. Mr. Bucklen stated he will do what it takes to take care of his family and knows the Board will do what it can to improve the situation. He expressed hopes members would consider this when allocating funds for education.

Ms. Gloria Hurt – Ms. Hurt invited members to attend the upcoming town hall meeting to be held at Macy McClaugherty school.

Ms. Kristen Corboy – Ms. Corboy related the previous town hall meeting had good attendance and thanked Mr. Morris for attending. She invited member to come sit down with them to have a conversation. Ms. Corboy stated the county is a leader in finding

affordable ways for students to further their education. She reported both high schools have opportunity for students to earn up to 40 college credits. Ms. Corboy related, with college tuition at \$10,627 per year at Radford University and \$13,620 at Virginia Tech, 40 credits is a significant savings for a family. She indicated the schools need to make sure they have qualified teachers for those classes; and as a citizen, she wants to know her taxes are used wisely. Ms. Corboy expressed hopes that the conversations regarding education will continue to be discussed as a community resource and a wise investment.

OLD BUSINESS

BROADBAND SURVEY

Mr. McKlarney informed members an RFP was issued for broadband services to the unserved and underserved areas of the county noting the CIT study had found several areas in the county with no service. He related information regarding the application process through DHCD for grant funding. Mr. McKlarney indicated he and Mr. Lawson would be meeting with PemTel the following week to go over the RFP and would participate in a conference call with DHCD.

PAYMENT OF WARRANTS

***Mr. Baker motioned to approve warrants in the amount of \$1,203,086.19. Mr. McCoy seconded the motion. The motion was approved 5-0 as follows:
Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris and Mr. Williams***

SCHOOL BOARD APPROPRIATIONS

Mr. Baker motioned to approve \$2,369,951.67 for October 2018 School Board Appropriations, and Mr. Williams seconded the motion. The motion was approved 5-0 as follows: Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris and Mr. Williams

EXECUTIVE SESSION

***Mr. McCoy motioned to go into executive session as permitted by Virginia Code 2.2-3711 A (1) Personnel and (30) Contracts. Mr. Baker seconded the motion. The motion was approved 5-0 as follows:
Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris and Mr. Williams***

Mr. McCoy motioned to return to open session and he certified that in the closed session just concluded, nothing was discussed except the matter or matters (1) specifically identified in the motion to convene in closed session and (2) lawfully permitted to be discussed under the provisions of the Virginia Freedom of Information act cited in that motion. Mr. Baker seconded the motion. The motion was approved 5-0 as follows:

Voting Yes: Mr. Baker, Mr. Lawson, Mr. McCoy, Mr. Morris and Mr. Williams

SEWER LINE

Mr. Williams informed members the sewer line had been installed across Route 460 and Mr. Stevers has requested two hook ups, but would only be getting one. He related a pump station would be set and extend the pipe 200 feet to hook up Mr. Snidow. Members discussed specifics of the project and concurred the amount of money to be collected will be worth the 200 feet installation of pipe.

EGGLESTON WATER PROJECT

Mr. Williams reported there are six additional residents requesting to be hooked up to the water at Eggleston. Mr. McCoy stated it would have helped if people had filled out the surveys as requested. Members discussed options and concurred it could be done as the project was in the Alpine Village area. Mr. McKlarney related the report had been received on Eggleston Phase II, which showed the estimated cost to be \$6 million.

ADJOURN

With no further business, the meeting was adjourned. The next Board of Supervisors meeting will be held on Wednesday, October 3, 2018, at 3:00 PM. The meeting will be held at the Giles County Administration Office located at 315 North Main Street, Pearisburg.

APPROVED:_____
Chair**ATTEST:**_____
Clerk

(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0018473223 | Data as of: Jun 30, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Sep 18, 2018 09:47:20

Filer Identification

Section	Question	Response
Filer Information	Provider Name	GigaBeam Networks LLC
	Holding Company Name	WVVA.net Inc.
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Michael Clemons
	Data Contact Phone Number	(540) 726-2317
	Data Contact E-mail	mclemons@gigabeam.net
Emergency Operations Contact Information	Emergency Operations Name	Michael Clemons
	Emergency Operations Phone Number	(540) 726-2317
	Emergency Operations E-mail	mclemons@gigabeam.net
Certifying Official Contact Information	Certifying Official Name	Michael Clemons
	Certifying Official Phone Number	(540) 726-2317
	Certifying Official E-mail	mclemons@gigabeam.net

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	CENSUS_BLOCKS_ALL_JUNE_2018.csv	Sep 17, 2018 12:27:19	7624
Fixed Broadband Subscription	form_477_customer_Jun_2018.csv	Sep 18, 2018 09:45:00	122

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Kentucky	GigaBeam Networks LLC	Terrestrial Fixed Wireless	526
Virginia	GigaBeam Networks LLC	Terrestrial Fixed Wireless	4360
West Virginia	GigaBeam Networks LLC	Terrestrial Fixed Wireless	2738
Total			7624

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Kentucky	Terrestrial Fixed Wireless	9	49	13	62
Virginia	Terrestrial Fixed Wireless	60	489	103	592
West Virginia	Terrestrial Fixed Wireless	53	469	51	520
Total		122	1007	167	1174

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
5.000	1.000	267	41	308
10.000	1.000	511	42	553
25.000	2.000	200	57	257
50.000	3.000	29	25	54
50.000	50.000	0	1	1
100.000	100.000	0	1	1
Total		1007	167	1174

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Terrestrial Fixed Wireless	5.000	1.000	267	41	308
	10.000	1.000	511	42	553
	25.000	2.000	200	57	257
	50.000	3.000	29	25	54
	50.000	50.000	0	1	1
	100.000	100.000	0	1	1
Total			1007	167	1174

(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0018473223 | Data as of: Dec 31, 2017 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 16, 2018 12:14:19

Filer Identification

Section	Question	Response
Filer Information	Provider Name	GigaBeam Networks LLC
	Holding Company Name	WVVA.net Inc.
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Michael Clemons
	Data Contact Phone Number	(540) 726-2317
	Data Contact E-mail	mclemons@gigabeam.net
Emergency Operations Contact Information	Emergency Operations Name	Michael Clemons
	Emergency Operations Phone Number	(540) 726-2317
	Emergency Operations E-mail	mclemons@gigabeam.net
Certifying Official Contact Information	Certifying Official Name	Michael Clemons
	Certifying Official Phone Number	(540) 726-2317
	Certifying Official E-mail	mclemons@gigabeam.net

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Censusblocks_ALL_DEC_2017.csv	Mar 16, 2018 12:09:28	8820
Fixed Broadband Subscription	form 477 customer data Dec 2017.csv	Mar 16, 2018 12:13:23	104

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Kentucky	GigaBeam Networks LLC	Terrestrial Fixed Wireless	266
Virginia	GigaBeam Networks LLC	Terrestrial Fixed Wireless	5028
West Virginia	GigaBeam Networks LLC	Terrestrial Fixed Wireless	3526
Total			8820

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

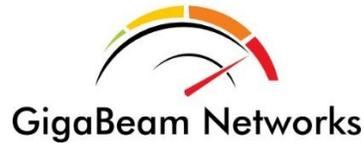
State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Kentucky	Terrestrial Fixed Wireless	8	42	10	52
Virginia	Terrestrial Fixed Wireless	53	526	28	554
West Virginia	Terrestrial Fixed Wireless	43	430	10	440
Total		104	998	48	1046

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
4.000	1.000	14	0	14
5.000	1.000	357	6	363
10.000	1.000	425	7	432
25.000	2.000	163	26	189
50.000	3.000	39	7	46
50.000	50.000	0	1	1
100.000	100.000	0	1	1
Total		998	48	1046

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Terrestrial Fixed Wireless	4.000	1.000	14	0	14
	5.000	1.000	357	6	363
	10.000	1.000	425	7	432
	25.000	2.000	163	26	189
	50.000	3.000	39	7	46
	50.000	50.000	0	1	1
	100.000	100.000	0	1	1
Total			998	48	1046



387 Old Virginia Avenue
Rich Creek, VA 24147
540-726-2317

601 Virginia Avenue
Bluefield, VA 24605
866-988-2638

December 14, 2018

Erik Johnston, Director
Department of Housing and Community Development
600 E. Main Street, Suite 300
Richmond, VA 23219

RE: VATI Telecommunication Initiative Grant Letter of Support

Dear Mr. Johnston:

We are pleased to pledge our support to this project to deploy broadband service for the area's citizens. As the wireless internet provider constructing the project, delivering the service when the network goes live, and continuing the operations and maintenance of that network, we commit to providing a 31% match for this grant in the amount of \$259,250.

As broadband becomes more widely understood as a service as necessary as electricity and running water, those without access to it will face considerable challenges in maintaining and building economic resiliency. Without widely available internet access, our community will not simply stagnate, it will fall behind in pursuing economic opportunity.

The proposed broadband deployment project to expand internet access in Giles County addresses these issues by reaching into communities without broadband speed internet service. Our citizens will be able to ready themselves to participate in the workforce, create their own business endeavors, access community services, and even conduct basic banking, shopping and communication activities online.

We look forward to working with DHCD and the other project partners to facilitate the deployment of broadband. Please contact me if you need any further information about our support for this regional effort.

Sincerely,

A handwritten signature in blue ink that reads "Michael Clemons".

Michael Clemons
President
GigaBeam Networks, LLC

Budget Breakdown

VATI Grant Contribution

Utility Poles (35 total)	\$ 14,000.00	
Solar Power Equipment/Batteries	\$ 129,750.00	
Backhaul Equipment	\$ 155,600.00	
AP Equipment	\$ 162,000.00	
Customer Premise Equipment	\$ 112,500.00	
Grant Administration	\$ 15,594.00	
Total	\$ 589,444.00	

GigaBeam Contribution

Labor and equipment use (trucks, etc)	\$ 105,500.00	
Customer Installation Labor/supplies	\$ 153,750.00	
Grant Administration	\$ 7,006.00	
Total	\$ 266,256.00	

Project total	\$ 855,700.00	
VATI portion	\$ 589,444.00	69%
Local portion	\$ 266,256.00	31%

Cost estimates breakdown

CPE = radio that would be at the customer's site (\$150 each totaling \$120,000)

Customer installation supplies: surge protection, cabling, router and labor at each customer site (total of \$164,000)

Gigabeam purchases equipment significantly under MSRP; pricing reflects this discounted cost. For example, The Customer radio model is Baicells Atom OD04-14 Gen2. MSRP is \$199.99.
<https://bit.ly/2PE6F0w>

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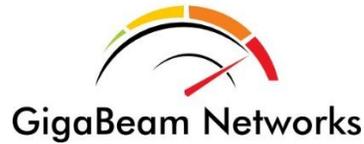
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387 Old Virginia Avenue
Rich Creek, VA 24147
540-726-2317

601 Virginia Avenue
Bluefield, VA 24605
866-988-2638

December 14, 2018

Erik Johnston, Director
Department of Housing and Community Development
600 E. Main Street, Suite 300
Richmond, VA 23219

RE: VATI Telecommunication Initiative Grant Letter of Support

Dear Mr. Johnston:

We are pleased to pledge our support to this project to deploy broadband service for the area's citizens. As the wireless internet provider constructing the project, delivering the service when the network goes live, and continuing the operations and maintenance of that network, we commit to providing a 31% match for this grant in the amount of \$259,250.

As broadband becomes more widely understood as a service as necessary as electricity and running water, those without access to it will face considerable challenges in maintaining and building economic resiliency. Without widely available internet access, our community will not simply stagnate, it will fall behind in pursuing economic opportunity.

The proposed broadband deployment project to expand internet access in Giles County addresses these issues by reaching into communities without broadband speed internet service. Our citizens will be able to ready themselves to participate in the workforce, create their own business endeavors, access community services, and even conduct basic banking, shopping and communication activities online.

We look forward to working with DHCD and the other project partners to facilitate the deployment of broadband. Please contact me if you need any further information about our support for this regional effort.

Sincerely,

A handwritten signature in blue ink that reads "Michael Clemons". The signature is fluid and cursive, written in a professional style.

Michael Clemons
President
GigaBeam Networks, LLC

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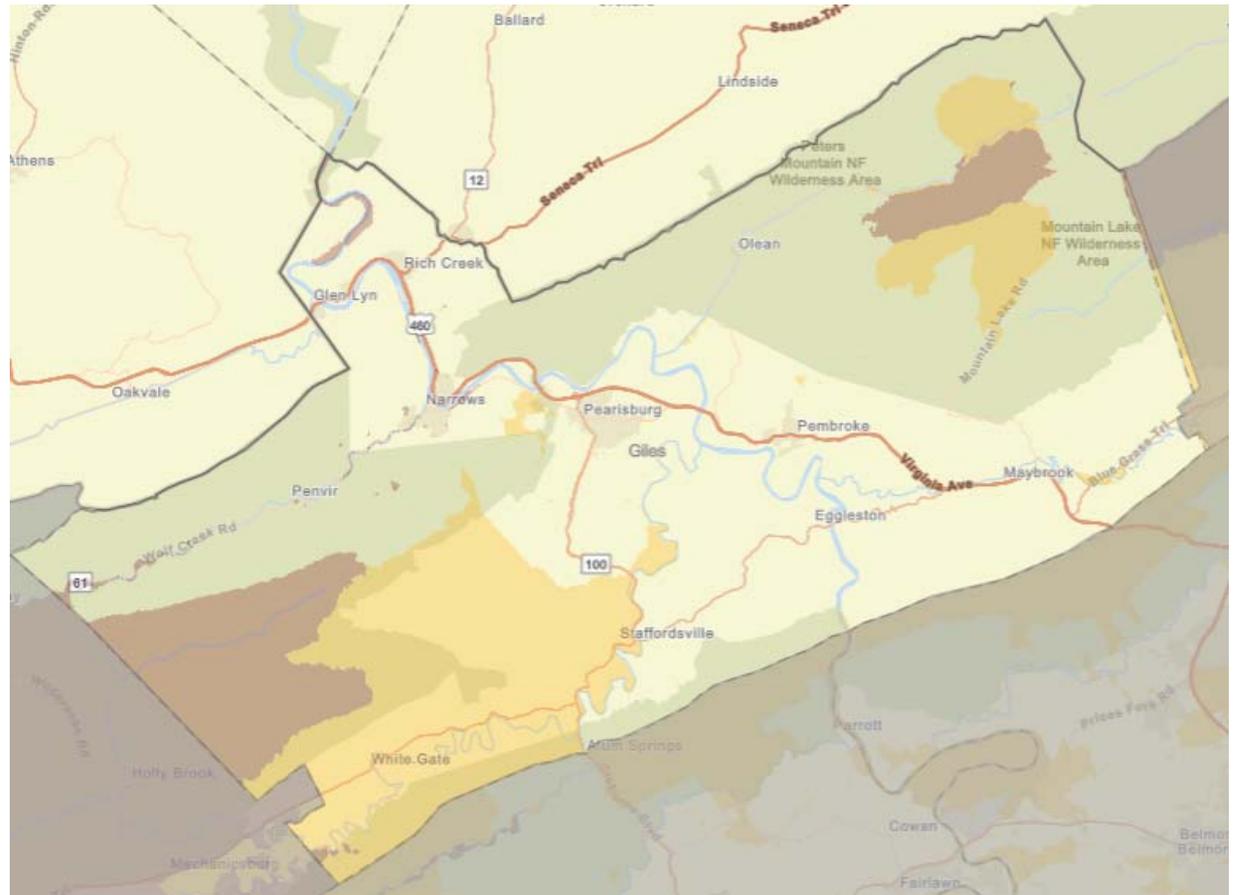
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Giles Un/Underserved Areas

Giles Household coverage

stats: Source: FCC 477 Dec 2016

- 1.3% have access at less than 4 Mbps (Includes no coverage)
- 0% have access \geq 4 Mbps and $<$ 10 Mbps
- 7.3% have access at \geq 10 Mbps and $<$ 25 Mbps
- 91.4% have access at \geq 25 Mbps

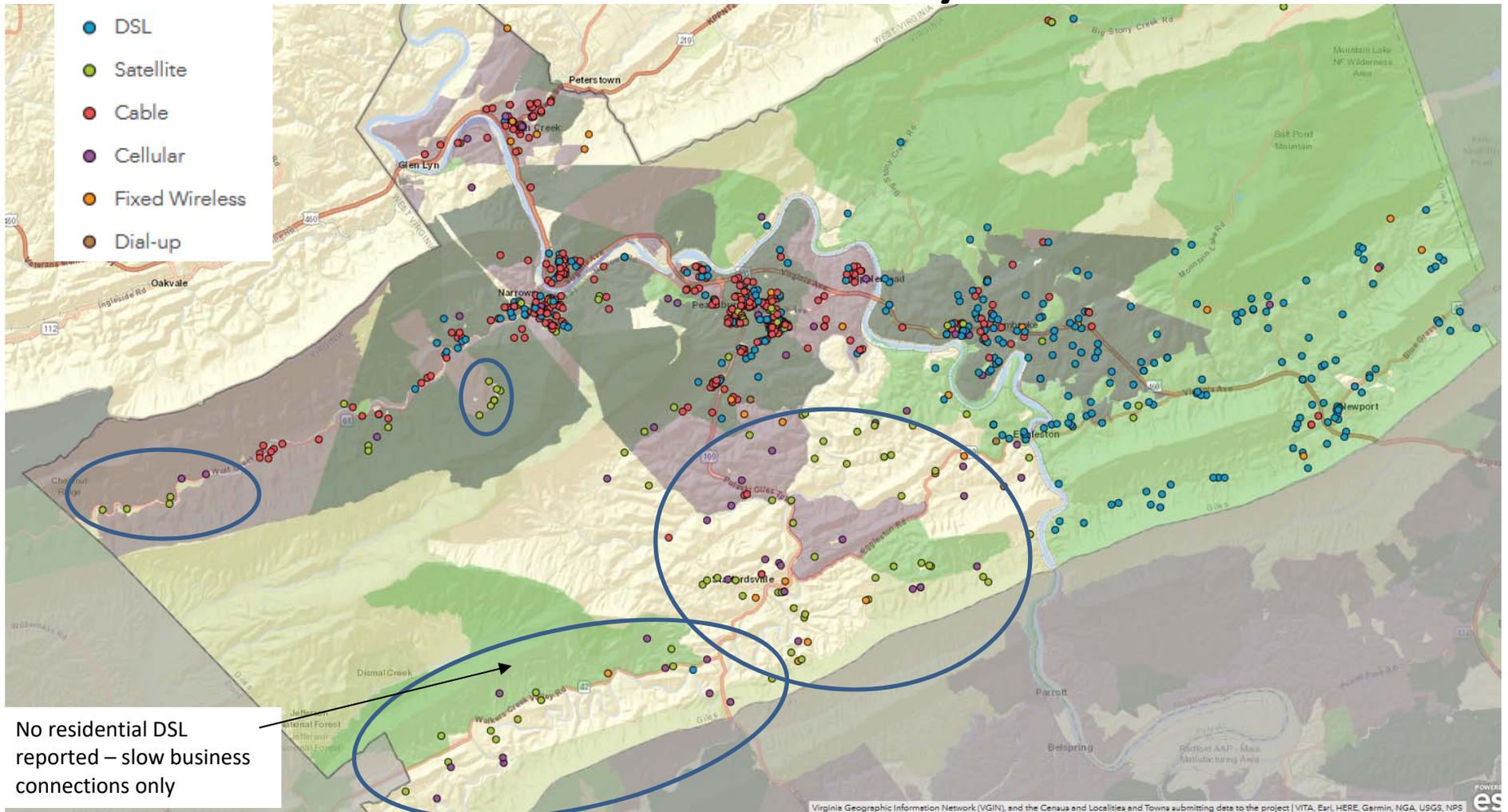


● Unserviced = Broadband speed below 10/1 Mbps Download/Upload speed

● Underserved = Broadband speed between 10/1 Mbps Download/Upload speed and 25/3 Mbps Download/Upload speed

Giles County

RESIDENTIAL CONNECTION TYPES



No residential DSL reported – slow business connections only

- DSL coverage
- Cable coverage
- DSL/Cable overlap

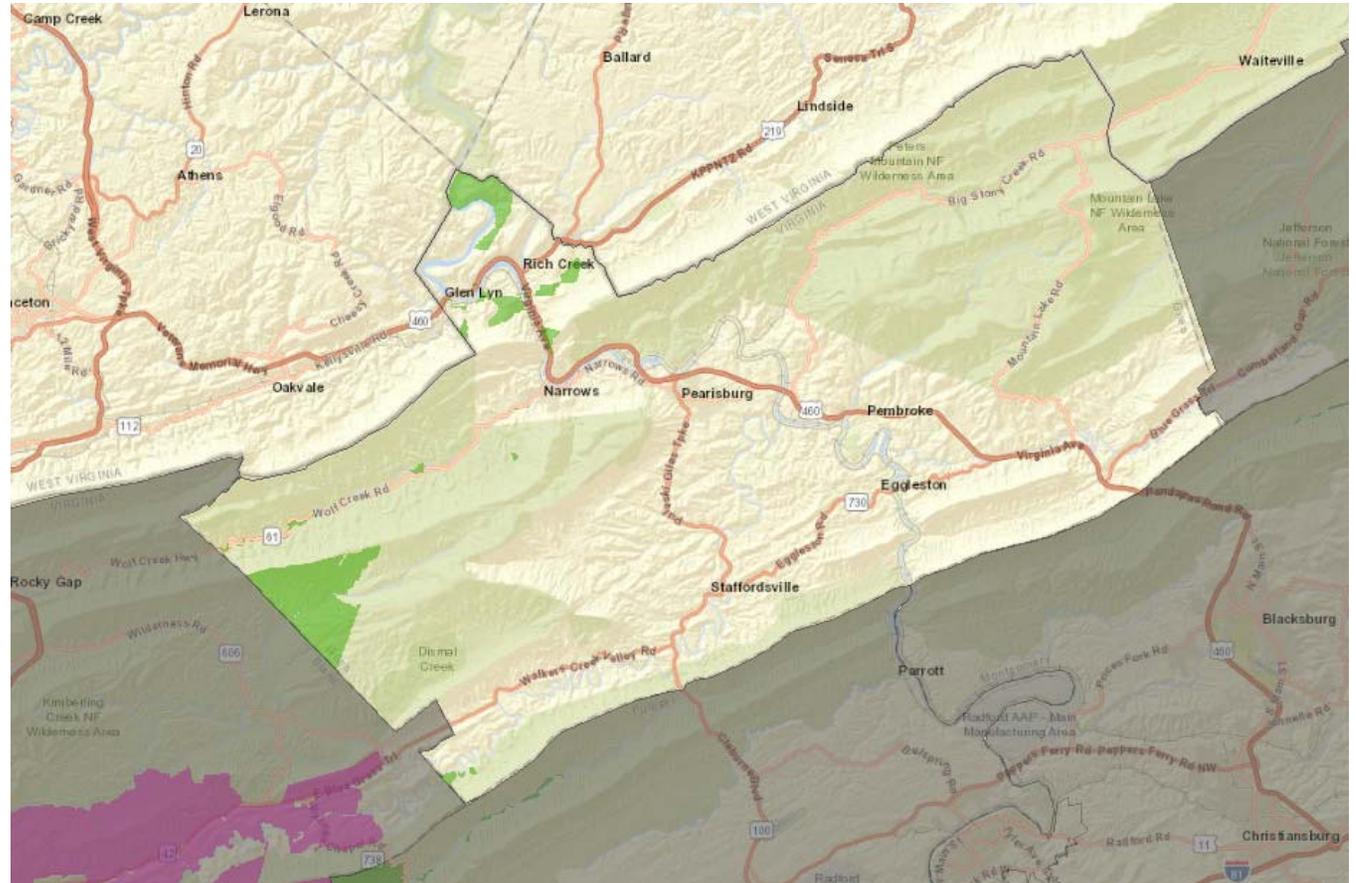
Areas of where only satellite and cellular responses exist within DSL or Cable coverage areas, likely exposes overstated coverage. Fixed wireless is reported in the circled areas but few reported responses. The fixed wireless provider West of Rt. 100 does not provide broadband speeds for residential services.

Giles Connect America Funding Phase II

Providers

- CAFII Auction Eligible Blocks
- CAFII In Plan Blocks

Potential Funding:
\$69,128 reserve price
for all blocks



VATI FUNDINGS SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

Source	Amount	%	Status
Requested VATI	\$ 589,444.00	69%	Pending
Private ISP - Gigabeam	\$ 266,256.00	31%	Secured
Local - Giles County	\$ -	0%	
	\$		
	\$		
	\$		
	\$		
Total	\$ 855,700.00	100%	

Help Wanted

Help Wanted: Now hiring for veterinary technician (registered preferred) at Animal Care Center, Princeton WV and Pearisburg, VA. Looking for friendly, energetic, dependable, self-motivated multi-tasker to join our compassionate veterinary teams. Accepting resumes at Animal Care Center, 1 Grand Veterinary Place, Princeton WV 24739 and Animal Care Center of Pearisburg, 278 Crickett Lane, Pearisburg VA 24134 or email: office@accpetvet.com.

11-21-2tc

Help Wanted: The Town of Rich Creek is accepting applications for a full-time position in the Public Works Department. The position demands physical labor in all types of weather conditions. A high school diploma or equivalent and driver's license is required. Applicants must possess or have the ability to obtain a Virginia State Class III Wastewater License. Training will be provided. Salary is based on qualifications and experience. Excellent benefit package. An application may be obtained at the Rich Creek Town Office at 140 North & Spruce St., Rich Creek, VA 24147. For questions, call (540)-726-3260. Please return application and a resume to Roger Jones, Town Manager, P.O. Box 65, Rich Creek, VA 24147. Applications will be accepted until the position is filled. EOE

11-21-4tc

Special Services

Special Services: Home Improvements by Cook's General Contracting. VA License No. 2705000245. Specializing in West vinyl replacement windows, vinyl siding, decks, and roofing including low sloped rubberized. For free estimates call Ricky or Billy Cook at 726-2245 or 922-2157.

5-17-tfc

Special Services: Mike's Budget Tree Service 540-921-2034. Tree trimming, tree removal, stump grinding, storm damage. 24 hour emergency service. Licensed and insured.

12-31-tfc

Special Services: Building & Concrete Contractor. Any type of concrete work. 25+ years experience. Danny Williams 540-726-7454.

7-27-tfc

Wanted

Wanted: Wanted to buy, older homes needing repair. Also buying vacant land and vacant lots. Will buy partial interest in homes or property and will also buy life estate interest in property. Call (540)599-5853 or (540)599-7776.

9-12-tfc

Notice

Notice: No hunting or trespassing on the property of Bernard Cosell along Merino Land near Staffordsville.

10-24-11tp

Notice: Public Notice Road Closings. The 11th Annual Pembroke Christmas Parade will be held on Saturday, December 1st, 2018 at 4:00 p.m. The 2nd Annual Christmas Festival will begin at 1:00 p.m. in the Town Hall parking lot. The following intersections of T1404, Snidow Street at T626 Castle Rock Drive and Route 460; T1401, Ellen Street at T1404 Snidow Street Route 623 River

Notice

Road at T1404, Snidow Street; Route 623 Cascade Drive T1404 Snidow Street; Water Street at T1404 Snidow and T747, Hilton Street at T1404 Snidow Street will be closed from 3:45p.m-7:45p.m.

11-21-2tc

Notice: Christmas Bazaar held at Oakvale Ruritan Building, Oakvale, WV. Tupperware, Pampered Chef, Scentsy, Lula Roe, homemade crafts, and desserts available. Concessions will be sold. Saturday, 12/01/2018 from 9am-3pm. Sponsored by the Ladies Circle, Goodwyn's Chapel Church of Christ.

11-21-2tp3

Notice: Notice to all area churches, event/wedding venues, service organizations: Redeemer Lutheran Church closing sale. Worship items, tables, chairs, candelabra, pews, books, Bibles, kitchen items, punch set, glass snack plates, copiers, file cabinets, etc. All for sale or donation. Please bring authorization on letterhead or business card for ID. Thursday, November 29. 9:00-2:00. Proceeds will go toward establishment of seminary scholarship in honor of Redeemer. Located beside Walmart in Pearisburg.

Notice

Notice: Giles County VATI Grant Application Public Notice. Giles County intends to apply for a 2019 Virginia DHCD Virginia Telecommunications Initiative grant to support the deployment of fixed wireless broadband service in the White Gate, Wolf Creek, and Route 100 areas of the county. Giles County, located in the New River Valley of Southwest Virginia, has adopted a vision to bring 21st century broadband connectivity to all stakeholders in the County, including its approximately 16,871 residents, over 8,356 housing units, over 288 businesses, 5 public schools, one private school, County public safety and first responders, and County administration. The County desires expansion of broadband access in unserved areas and improved capacity in underserved areas using a Public/Private Partnership providing broadband service to its citizens. The County understands the economics of expanding broadband in rural areas and is prepared to take action to improve those economics as much as possible to entice the private sector investment. Work has been done to identify

Notice

these areas leading to this grant application. The County solicited proposals through the Public-Private Education Facilities and Infrastructure Act of 2002 and Giles County PPEA Policy. Through this process Gigabeam was selected to build the network to serve customers at speeds of 10Mbps upload and better, contingent upon award of a grant. Pricing plans are expected to range from \$39 to \$119, speed dependent. Comments are invited and will be received on this project until close of business December 13, 2019. They can be submitted in person or by mail to John Ross at 315 North Main Street, Pearisburg, VA 24134; by phone at (540)

Notice

921-2527 during usual business hours and by email to jross@gilescounty.org. All comments will be considered and submitted with the application.

11-28-1tc



Notice: Happy 50th Birthday, Christina! We love you!

11-28-1tp1

Worth a
SECOND LOOK
FOR GREAT DEALS IN THE CLASSIFIEDS

if

You just read this you can realize the visual impact one display ad can have in the Virginian Leader.

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Turn the "ifs" into profits!

Call 540-921-3434 today!

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540-726-7221 - 24/7

Judy Gillespie, Broker 304-660-9301

Licensed in WV and VA
Office: 799 Federal Street
Rich Creek, VA 24147
chambersrealtywvva.com

God Bless Our Military & Their Families
4.55ac

Immaculate



325602 Ballard, WV
Country home
HW floors, 3br
\$106,500



400184 Peterstown, WV
Over 3,000sq. ft.
1.91ac
\$192,000

15.6ac

Calling All Hunters



402523 Lindsides, WV
2br, 4 outbuildings
Hunters dream
\$97,500



403499 Waiteville, WV
Excellent condition
2br, garage
\$82,500

WE NEED LISTINGS!!

SOLD

SOLD



330503 Christiansburg, VA
3br, 2ba, Cambria Crossing
SOLD



330591 Peterstown, WV
3br, 2ba, ranch on 0.75ac
SOLD

SOLD

PENDING



403169 Narrows, VA
4br, 2.5ba, 1.8ac
SOLD



402543 Lindsides, WV
4br, 2.5ba, 3ac, very good
PENDING

Kaye Hines 304-646-4115
Jan Bailey 540-599-2775
Megan Raines 304-646-6264
Jessica Johnson 304-320-7640
Olivia Anton 540-599-5070