

Application to DHCD Submitted through CAMS

Albemarle Broadband Authority

ABBA/CenturyLink Green Creek Road VATI 2019

Application ID: 59812072018125117
Application Status: In Progress - DHCD
Program Name: Virginia Telecommunications Initiative 2019
Organization Name: Albemarle Broadband Authority
Organization Address: 401 Mcintire Road
Charlottesville, VA 22902
Profile Manager Name: Michael Culp
Profile Manager Phone: (434) 296-5891
Profile Manager Email: mculp@albemarle.org

Project Name: ABBA/CenturyLink Green Creek Road VATI 2019
Project Contact Name: Michael Culp
Project Contact Phone: (434) 296-5891
Project Contact Email: mculp@albemarle.org
Project Location: 4873 Green Creek Road
Schulyer, VA 22969-1603
Project Service Area: Albemarle County

Total Requested Amount: \$78,000.00

Required Annual Audit Status: Pending Review

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$78,000.00	\$52,000.00	\$130,000.00
Construction	\$78,000.00	\$26,000.00	\$104,000.00
Other: ABBA Contribution	\$0.00	\$26,000.00	\$26,000.00
Total:	\$78,000.00	\$52,000.00	\$130,000.00

Budget Narrative:

Documentation of the Albemarle Broadband Authority (ABBA) Commitment of \$26,000 is included in the attachment "Documentation for in-kind contributions". CenturyLink will invoice ABBA for all project work. All funds to be expended toward VDSL2 electronics, planning, engineering, materials and labor for the installation of the fiber facilities. ABBA will request draw downs of funds from DHCD and combine payment to CenturyLink from those funds and ABBA cash.

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:

This project area was selected because it is a unique section of the County, Green Creek Road is a road coming through from Nelson County into Bungle town. The uniqueness is due to the location of the road between two ridges. The residents have been very active attending ABBA meetings and ABBA agreed in May 2018 to submit a project request to all providers for feedback. Most could not justify the expense of project. CenturyLink agreed to further look into it as a future VATI application. We've included the text of the project request along with many statements and speed tests performed by residents to show this area is vastly underserved due to location between two ridges and distance from the nearest serving CenturyLink fiber fed switch. For more details on the request see the optional attachment Green Creek Road ISP Request May 31 2018.

This area also contains 36 students in public schools. This is a high percentage of students per household. At least one student requires additional educational support while at home; currently that support is not available because the only option is satellite and doesn't serve the bandwidth needs.

2.

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

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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 ABBA survey instrument was utilized in this area with citizens providing speed tests and feedback; highlights are included in the optional attachments. Comcast, SCS Broadband, Nelson Cable, Lumos, Shentel, and CenturyLink were contacted about providing service. None of the ISPs were currently providing service - so the residents' only choice is Satellite. This is documented in the optional attachments. The area is considered an extremely high cost area to serve because of lack of density as well as difficult terrain.

3. Project Need/Description

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

This project was submitted to 5 service providers on May 31, 2018. The service providers were provided with area location and survey data. The intent was for ABBA to share costs for broadband deployment. We shared maps of the area and none of the service providers indicated an overlap. The only option in this area is Satellite.

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:

Total Project: An estimated 95 "living units" are in the total project area, of which 75 will meet the VATI speed requirements for download with 25mbps or above depending on how close each unit is to the fiber fed electronic device. Note that many additional citizens will also have access to broadband service with speeds up to 10M/2M raising the number of potential new DSL units to 95. The "basis" for the projections of number of eligible users is based on actual network planning to identify the specific homes that would be included, as these locations are all currently served by CenturyLink for voice services.

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

Answer:

This area of the County is primarily residential. Through survey data we note that many of the professionals living in the area work from home or are required to participate in work related teleconferences etc. The bigger concern for this area continues to be the lack of equity for the students who live here since many of their peers have access to broadband for homework, these students need to travel to complete homework assignments which require access to the internet.

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.

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Answer:

Based on an analysis of other exchanges where broadband was enabled after no preexisting service, an estimated 50% of residents would subscribe.

As an example the VATI funded 2017 project named Tilman's estimated 50% take rate of 21 out of 53 new customers to make the estimate, instead within 6 months of completion, 32 out of 53 customers had signed on for a 60% take rate. Today's customers are 44 out of the 53 showing a successful project with a 83% take rate. 16 of the 53 have selected service of above 20mbps down/5mbps up. 2 customers' selected service rate is 90mbps. The actions the co-applicants will take to reach the identified potential customers include frequent notices from both ABBA and CenturyLink indicating this upcoming project supported by the Virginia Telecommunication Initiative and DHCD. We will schedule at least one public meeting in or near the project area to inform the residents about the upcoming work and take questions. And nearer the completion of the project hold another meeting to encourage sign-ups and answer questions.

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

Answer:

This is a combination "middle mile" and "last mile" project and the facilities will be owned, operated and maintained by CenturyLink. Middle mile is a long term investment for the county. The state cost is primarily this investment. This is more a fiber than a DSL project as many of the costs involve deployment of new fiber. ABBA will contribute to invest in the fiber infrastructure.

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:

This is a fiber and copper (VDSL2) project.

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.

Answer:

CenturyLink will deploy VDSL2 technology, leveraging existing facilities and infrastructure to each qualified customer, providing the required bandwidth to qualified living units. An estimated 95 "living units" are in the total project area, of which 75 will meet the VATI download speed requirements. 50 units will be offered at 25/2 mbps speeds and 25 will be offered 45/5 mbps speeds and above. Note that many additional citizens will also have access to broadband service with speeds up to 10M/2M raising the number of potential new DSL users to 95. The VDSL2 technology is a shared bandwidth model. We will build fiber to area via this project and with future projects continue to add to our fiber plant.

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.

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Answer:

CenturyLink will leverage dedicated existing twisted-pair, copper facilities to each customer. Further, CenturyLink would build new fiber to each area and connect the new fiber to a new VDSL2 enabled device. This device would, in-turn, provide the broadband service to qualified loops in the areas around this project. Although VDSL2 uses the last mile of copper from the fiber fed device to the home; the VDSL2 technology is fully capable of providing 80mbps down and 5mbps up, speeds which more than support many of the modern internet needs. Finally, VDSL2 is a low cost solution with a high speed threshold. It's technology being used today throughout the country to provide these speeds.

The advantage of the technology is that it is progressive. Meaning it is low cost to build while progressively deploying more fiber into the rural areas. CenturyLink compiled this information as it is the primary solution for delivering residential broadband services in "hard to reach" areas.

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:

This project has passed engineering and financial commit stages and is approaching final design. See the attached Project Management Plan which identifies all tasks, staffing, contracting work, with an estimated start and completion dates.

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-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:

For this project CenturyLink is providing \$26,000 and Albemarle County Broadband Authority (ABBA) is providing \$26,000. i. CenturyLink providing all of the services (e.g., planning and engineering), labor and materials necessary for this project. CenturyLink will invoice ABBA for \$26,000 to cover half of their costs.

ii. Albemarle County Broadband Authority providing \$26,000 toward the cost of the project.

The revenue sources are:

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Service Area	VATI	CenturyLink	Albemarle County Broadband Authority
Green Creek Road	\$78,000 - pending	\$26,000 - cash	\$26,000 - cash

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:

Name	Title	Role and Responsibilities
Mike Culp	Information Technology Director Albemarle County, VA ABBA Vice Chair	Mr. Culp will be responsible for overall project management for the partnership. He will coordinate all activity with CenturyLink and manage administrative tasks to include invoice processing and remittances with DHCD.
Michele Carter	Management Analyst Albemarle County, VA	Ms. Carter will update materials for CAMS entry and verify CenturyLink invoices for accuracy.
Richard Schollmann	Director of Government Affairs	Mr. Schollmann will be responsible for overall coordination of the project with Albemarle County. He will provide all coordination with the planning, engineering, construction, and billing teams within CenturyLink.
Craig Hager	Director of Local Network NC/VA	Mr. Hager oversees all construction tasks and

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	CenturyLink	testing in NC and VA.
Bill Owens	Manager of Local Network VA CenturyLink	Mr. Owens has direct responsibility for managing construction and testing for this project.
Willie Thompson	Construction Supervisor VA CenturyLink	Mr. Thompson will direct all crews for the construction and installation of fiber and equipment for this project.

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.

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:

A formal partnership between ABBA and CenturyLink has not been formalized yet but a preliminary MOU has been signed and is an attachment to this application. A similar agreement was used in the prior VATI applications with CenturyLink and Albemarle County and a formal agreement was signed after the grant was approved. CenturyLink’s obligations to implement the Project Management Plan within the designated period, to provide updates to the County on the status of the project, to notify the County if assistance is needed with issues where the County can provide assistance, to submit requests for payment as work is completed, to complete all work within the required timeframe, to provide the County with information showing the locations where broadband has been enabled and to propose any non-disclosure agreements that CenturyLink believes might be required if CenturyLink is requested to share confidential information.

The agreement includes obligations of the Broadband Authority to process requests for payment in a timely manner, review information provided by CenturyLink and submit requests for additional information in a timely manner, complete any necessary non-disclosure agreements, provide necessary rights of way and assist in contacting citizens and others when appropriate to assist in completing the project within the required timeframe. On December 12, 2018 Albemarle County Broadband Authority signed an official VATI Agreement with CenturyLink. That agreement is provided in the Attachment Section.

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:

Product	Total	VATI	Non-VATI	Source of Estimation
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VDSL2 electronics	\$28,000	\$16,800	\$11,200	CenturyLink
Planning, engineering, materials and labor for the installation of the fiber facilities	\$102,000	\$61,200	\$40,800	CenturyLink

The cost for this project includes all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the VDSL2 equipment necessary to provide the broadband service. The cost estimates are based on CenturyLink’s extensive experience in building these same systems throughout the country and also CenturyLink’s experience in its CAFII buildout, where CenturyLink is building DSL circuits to almost 50,000 living units over the course of 6 years using about \$16M per year in federal funding. Additionally, we used the same methods to estimate the costs for our prior VATI applications and the estimates are in line with the actual costs.

The project cost is \$130,000, consisting of \$28,000 in electronics and \$102,000 in fiber. These costs include all of the fiber installation and the VDSL2 equipment required for the project, along with all of the planning, construction and testing costs. CenturyLink will invoice ABBA, ABBA will verify and submit for reimbursement through DHCD for \$78,000 to help cover these costs.

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. The state's share of the total project is \$78,000
- ii. The CenturyLink project will provide significant service improvements to at least 95 units. Twenty or more will receive DSL for the first time at speeds of 10/1mbps or below, 50 will receive 25/2mbps for the first time because of the VDSL limits on download speeds, and 25 will receive speeds above 40/5mbps. We can either calculate the state share for 25 = \$3,120.00 or 134 = \$1,040.00
- iii. It's important to factor in that many of the 40/5 mbps units will have an option to select 80mbps service offerings.

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:

Albemarle County has worked with numerous state and federal agencies on many different types of Grants. Albemarle IT completed the Virginia Telecommunication Planning Initiative Grant with DCHD. Albemarle County and CenturyLink were awarded \$118,000 during the 2017 VATI and completed the project ahead of schedule and within budget.

CenturyLink has extensive experience with managing grants and constructing broadband communications facilities in the Commonwealth and elsewhere. In Virginia, CenturyLink and its predecessor companies have provided voice and data services to hundreds of thousands of Virginians for decades. All of those networks were constructed by CenturyLink companies. CenturyLink has built and provided high-speed Internet services to residential and business customers since the inception of those services.

CenturyLink serves approximately 12.9 million access lines in 37 states across the country, including over 6 million high-speed Internet customers. Its customer base ranges from rural residential customers to international Fortune 500 companies. CenturyLink is a global leader in managed hosting and cloud services, and offers network

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and data systems management, big data analytics and IT consulting, and operates nearly 60 centers in North America, Europe and Asia.

In 2015, CenturyLink announced that it had accepted nearly \$506 million in annual support from the federal Connect America Fund to support broadband for over 2.3 million customers in 33 states. In Virginia alone, CenturyLink accepted over \$15.7 million per year for 6 years to reach 49,993 homes and businesses. CenturyLink has committed to having 40% of the build completed in each state by the end of 2017.

CenturyLink also has experience in state-level broadband grant programs. Beginning in 2007, CenturyLink participated in grant programs with Mid-Atlantic Broadband and the Tobacco Commission to build, operate and maintain DSL broadband projects in some of the most rural locations in Virginia.

The initial project had a total project cost of \$968,000 and the project was completed on time and within budget. It provided broadband to nearly 3,000 homes and businesses who would not have had access to broadband without the grant program. CenturyLink participated in several additional annual rounds of MBC/Tobacco Commission grants totaling over \$3 million in project costs. All of those projects were completed on time and within budget.

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:

The services being proposed for this program are the same products and services provided by CenturyLink across Virginia and 32 other states. As shown on the attached map, CenturyLink will offer broadband at various speeds to 95 existing locations, including twenty at speeds of 10M and below downloads, 50 at 25/2M and 25 at 40/5M. CenturyLink prices its services at the national level and current pricing information for both residential and business services is available at www.centurylink.com. Currently, for residential customers CenturyLink is advertising a “price for life” plan, where the Internet rate will not change as long as the customer keeps the “price for life” plan. There is no contract required and no requirement to bundle with other services. CenturyLink prices using the download speed and currently the price for all speeds up to 25M is \$45 per month. The next tier, 40-80M, is priced at \$55 per month, although there is currently an online-only promotion at \$45 per month. For business customers, there are various plans for small business, medium-sized business and enterprise level customers. For small business, the current price for services up to 100M is \$65 per month. There is no promotional pricing and no term commitments for this plan. There are other plans with lower rates when broadband service is bundled with other services, but there are additional requirements for bundled pricing plans.

19. Additional Information

Any other equitable factor that the applicant desires to include.

Answer:

The citizens along Green Creek Road and the many side roads in to the ridge abutting it are engaged citizens and concerned about the disconnected nature of this area of the county.

Attachments:

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Derivation of Cost (Project Budget)

CTLDerivationofCostsGreencreekroad1214201833310.xlsx

Project Management Plan

ProjectManagementPlanGreenCreekRoad201912142018124334.xlsx

Supporting documentation for costs estimates

CostEstgreen12132018124845.pdf

Map(s) of project area, including proposed infrastructure

Mapgreen12132018124859.jpg

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

Unservemapboth12132018125109.pdf

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

CTLABBAVATIAgreementBoth12132018125133.pdf

Two most recent Form 477 submitted to FCC

CenturyLinkForm477Combined201720181212201842714.pdf

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

CenturyLinkABBAGreenCreekInKindContribution1212201842737.pdf

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

ProjCostsGreen1214201835311.pdf

Documentation of source of match funding

CenturyLinkABBAGreenCreekInKindContribution1212201842759.pdf

Documentation that proposed project area is unserved based on VATI criteria

Unservedboth1212201843632.pdf

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

CAFboth1212201843645.pdf

Funding Sources Table

FundingSourcesGreen12132018125629.doc

(Optional) || Green Creek Road Citizen Survey Results

GreenCreekRoadAlbemarleBroadband1212201843247.xlsx

(Optional) || Green Creek Road ISP Request May 31 2018

GreenCreekRoadAlbemarleBroadband1214201835522.pdf

Product	Total	VATI	Non-VATI	Source of Estimate	Date
EXAMPLE					
<u>Construction</u>					
200 LF of fiber @\$150/LF	\$30,000	\$15,000	\$15,000	Company A	9/5/2016
Tower	\$100,000	\$80,000	\$20,000	Company B	9/5/2016
Engineering	\$20,000	\$0	\$20,000	ABC Engineering Firm	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
VDSL2 electronics	\$ 28,000	\$ 16,800	\$ 11,200	CenturyLink	12/12/2018
Planning, engineering, materials and labor for the installation of the fiber facilities	\$ 102,000	\$ 61,200	\$ 40,800	CenturyLink	12/12/2018



DERIVATION OF COST (PROJECT BUDGET)

The completed budget template document is attached. The following additional information is provided.

The cost for this project includes all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the VDSL2 equipment necessary to provide the broadband service. The cost estimates are based on CenturyLink’s extensive experience in building these same systems throughout the country and also CenturyLink’s experience in its CAFII buildout, where CenturyLink is building DSL circuits to almost 50,000 living units over the course of 6 years using about \$16M per year in federal funding. Additionally, we used the same methods to estimate the costs for our prior VATI applications and the estimates are in line with the actual costs.

The project cost is \$130,000, consisting of \$28,000 in electronics and \$102,000 in fiber. These costs include all of the fiber installation and the VDSL2 equipment required for the project, along with all of the planning, construction and testing costs.

Richard Schollmann
Director



CenturyLink™

SUPPORTING DOCUMENTATION FOR COSTS ESTIMATES

The cost for this project includes all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the VDSL2 equipment necessary to provide the broadband service. The cost estimates are based on CenturyLink's extensive experience in building these same systems throughout the country and also CenturyLink's experience in its CAFII buildout, where CenturyLink is building DSL circuits to almost 50,000 living units over the course of 6 years using about \$16M per year in federal funding. Additionally, we used the same methods to estimate the costs for our prior VATI applications and the estimates are in line with the actual costs.

The project cost is \$130,000, consisting of \$28,000 in electronics and \$102,000 in fiber. These costs include all of the fiber installation and the VDSL2 equipment required for the project, along with all of the planning, construction and testing costs.

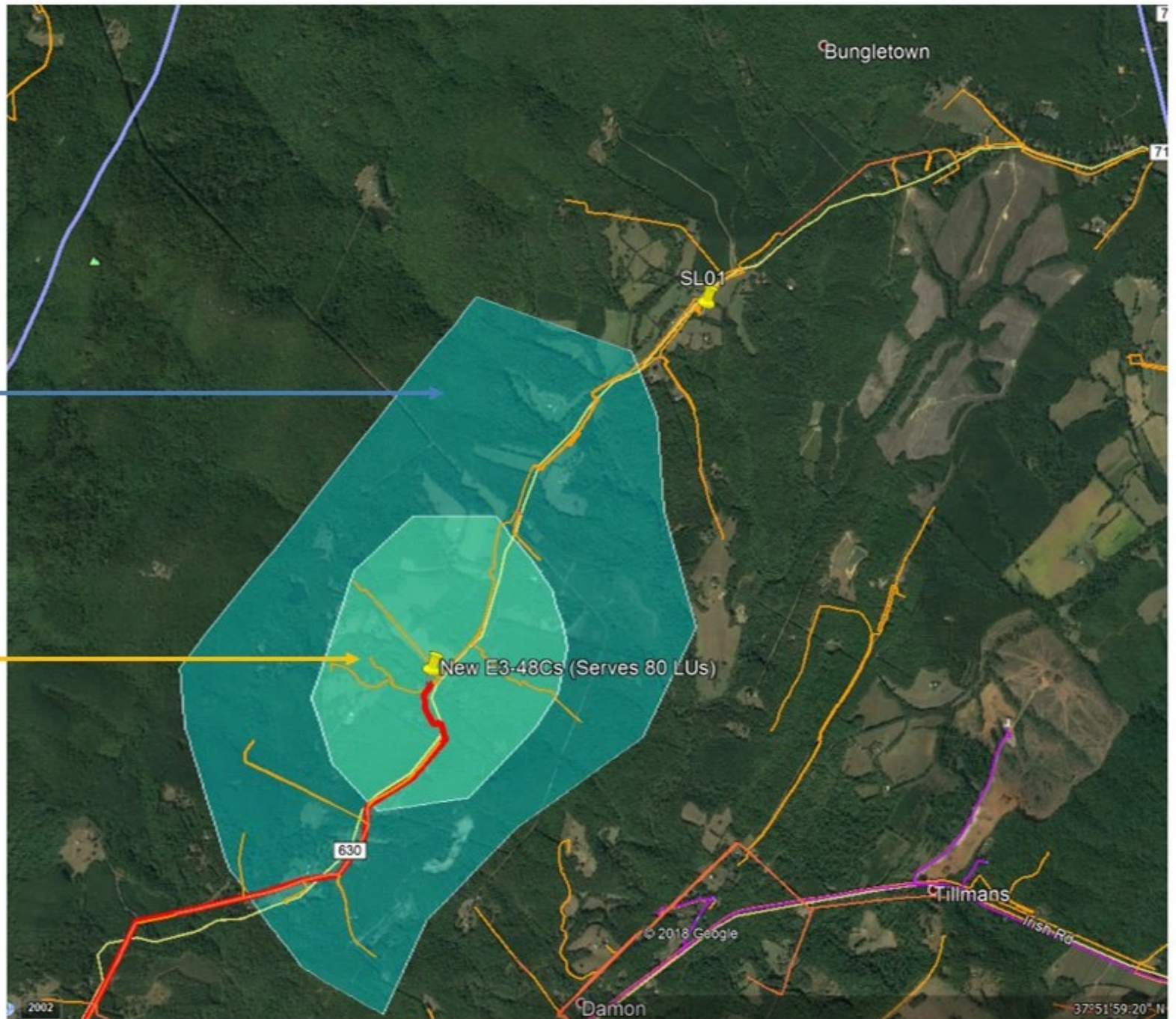
Richard Schollmann
Director

Schuyler – Green Creek

10M &
Below
(20+)

25/2M
(50)

40/5M
(25)





MAP(S) OR SCHEMATIC OF EXISTING BROADBAND PROVIDERS

As described in the responses to application question two, based on our knowledge of the area and contact with other providers who serve in the surrounding area, the applicant and co-applicant are unaware of any customers in the project area who are "served" under the VATI criteria by any other provider.

A handwritten signature in blue ink, appearing to read "Richard Schollmann".

Richard Schollmann
Director

MEMORANDUM OF UNDERSTANDING

INFORMATION IN SUPPORT OF CENTURYLINK RESPONSE TO VATI RFP

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

1. The parties to this Memorandum of Understanding (MOU) are the Albemarle Broadband Authority (ABBA), a wireless service authority and public and corporate body created by the Albemarle County Board of Supervisors, and CenturyLink.
2. The purpose of this MOU is to establish a commitment by the parties to participate in the development of a grant proposal in 2018 for the Virginia Telecommunications Initiative (VATI) program established by the Virginia Department of Housing and Community Development (DHCD). Although a partnership between ABBA and CenturyLink has not yet been formalized for this proposed project, both parties are collaborating on an agreement to be executed if DHCD awards them a VATI grant.

An agreement would cover the following areas:

- a. CenturyLink would commit to implement the Project Management Plan within the designated period, to provide updates to ABBA and Albemarle County staff on the status of the project, to notify ABBA or Albemarle County staff if its assistance were needed, to submit requests for payment as work was completed, to complete all work within the required timeframe, to provide ABBA with information showing the locations where broadband had been enabled, and to propose any required non-disclosure agreements if CenturyLink were requested to share confidential information.
- b. ABBA would commit to processing requests for payment in a timely manner, to review information provided by CenturyLink and submit

requests for additional information in a timely manner, to complete any necessary non-disclosure agreements, to assist CenturyLink in obtaining necessary rights of way within the scope of ABBA's authority, and to assist in contacting residents and others as appropriate to foster completion of the project within the required timeframe.

- c. The parties agree in advance that CenturyLink will be permitted to consolidate bills on at least a monthly basis and submit as a single invoice for processing. The preferred method of billing is at mid-point of the projects and then at the completion of work; thereby providing only two sets of remittance processing.
- d. The parties agree to work jointly to coordinate a complete VATI application, making decisions on roles and responsibilities where necessary to facilitate a timely and effective submission of necessary information.
- e. On September 13, 2017, CenturyLink signed an official VATI Agreement with Albemarle County. That agreement is provided in the Attachment Section. The parties anticipate signing a similar agreement if they receive a VATI award.

CENTURYLINK, INC.

By:



Richard Schollmann

Title: Director

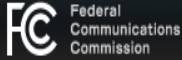
ALBEMARLE BROADBAND
AUTHORITY

By:



Michael Culp

Vice Chair



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OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Dec 31, 2017

Submission Status

Revised - Submitted

Last Updated: Jun 8, 2018 11:53:24

Submission Menu

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This filing has been submitted and is now read-only. To edit, go to the [Main Menu](#) and click [Revise](#).

Data Section	Status
Filer Identification	Data entered
Fixed Services	
Fixed Broadband Deployment	View file(s) Data entered
Fixed Broadband Subscription	View file(s) Data entered
Fixed Voice Subscription	View file(s) Data entered
Mobile Services	
Mobile Broadband Deployment	No data for this section
Mobile Broadband Service Availability	No data for this section
Mobile Broadband Subscription	No data for this section
Mobile Voice Deployment	No data for this section
Mobile Voice Subscription	No data for this section
Explanations and Comments	Data entered

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Revised - Submitted

Last Updated: Jun 8, 2018 11:53:24

Filer Identification

* Indicates a required field. Please be sure you have all the required Filer Identification information before you begin.

You will not be able to save your responses if required fields are incomplete.

FRN: 0018626853

* Provider Name:

* Holding Company/Common Control Name: ⓘ

[Change](#)

Operations:

 ILEC Non-ILEC

Provider's Website Address:

* Study Area Codes (SAC): ⓘ

* Form 499 Filer IDs: ⓘ

Emergency Operations Contact Information ⓘ

* Name:

* Phone Number:

Emergency Operations Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Form 477 Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Certifying Official Contact Information ⓘ

* Name:

* Title:

* Phone Number:

Extension:

* E-Mail:

Non-disclosures

Indicate whether you request non-disclosure of some or all of the subscription information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.

Indicate whether you request non-disclosure of some or all of the mobile deployment spectrum and speed parameters information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Dec 31, 2017

Submission Status

Revised - Submitted


Last Updated: Jun 8, 2018 11:53:24

Local Exchange Telephone Subscription

For each state in which you have one or more customers,

1. allocate lines provided to other providers between Wholesale and UNE-L;
2. allocate lines provided to end users by (a) Services Sold, (b) Product Type, (c) Ownership and (d) Last-mile Medium; and
3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

For more information about how to allocate your lines, click [here](#) . Every cell must contain a number. Blanks will cause an error. Save your work as you go and when you've entered data for each state, click Finished »

 Each cell must contain a number, even if it's zero!

Subscriptions Listed By State	Virginia	* All fields are required	
New Jersey	Lines provided to <u>Unaffiliated Providers</u>		
New Mexico	Wholesale: ⓘ	UNE-L: ⓘ	
North Carolina	<input type="text" value="3953"/>	<input type="text" value="1321"/>	
North Dakota	Lines provided to <u>End Users...</u>		
Ohio	by Services Sold		
Oklahoma	Total: ⓘ	Voice with Internet: ⓘ	Voice without Internet:
Oregon	<input type="text" value="185330"/>	<input type="text" value="99949"/>	<input type="text" value="85381"/>
Pennsylvania	by Product Type		
South Carolina	Total: ⓘ	Consumer Total ⓘ	Business /Gov. Total ⓘ
South Dakota	<input type="text" value="185330"/>	<input type="text" value="136329"/>	<input type="text" value="49001"/>
Tennessee		Consumer & No PIC: ⓘ	Business/Gov. & No PIC: ⓘ
Texas			
Utah			

South Carolina
South Dakota
Tennessee
Texas
Utah
Virginia
Washington
Wisconsin
Wyoming

by Product Type

Total: ⓘ	Consumer Total ⓘ	Business /Gov. Total ⓘ
185330	136329	49001
	Consumer & No PIC: ⓘ	Business/Gov. & No PIC: ⓘ
	57747	25322
	Consumer & PIC: ⓘ	Business/Gov. & PIC: ⓘ
	78582	23679

by Ownership

Total: ⓘ	Owned: ⓘ	UNE-L: ⓘ	Resale: ⓘ
185330	185330	0	0


by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless: ⓘ	Copper: ⓘ
185330	235	0	0	185095

Cancel

Next State

Continue »

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FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Dec 31, 2017

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Interconnected VoIP Subscriptions

For each state in which you have one or more iVoIP subscribers,

1. allocate over-the-top iVoIP subscriptions, where you provide service to end users without also supplying last-mile facilities, between Consumer and Business / Government subscribers;
2. allocate all other iVoIP subscriptions, where you provide service to end users and also supply last-mile facilities, by (a) End User Type, (b) Services Sold, and (c) Last-mile Medium; and
3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

For more information about how to allocate your lines, click [here](#).

 Each cell must contain a number, even if it's zero! Blanks will cause an error.

Save your work as you go, and when you've entered data for each state, click Finished »

Subscriptions by State	Virginia * All fields are required
Alabama	
Colorado	
Florida	
Idaho	
Indiana	
Iowa	
Kansas	
Missouri	
Nevada	
North Carolina	
Ohio	
Tennessee	

Grand Totals, by End-user Type

Total: ⓘ	Consumer: ⓘ	Business / Gov.:
<input type="text" value="651"/>	<input type="text" value="1"/>	<input type="text" value="650"/>

Over-the-top Subscriptions

Service to End Users Provided Without also Supplying Last-mile Facilities

Total: ⓘ	Consumer: ⓘ	Business / Gov.:
<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="0"/>

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider...
by End-user Type

Total: ⓘ	Consumer: ⓘ	Business / Gov.:
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

Missouri
Nevada
North Carolina
Ohio
Tennessee
Texas
Virginia
Washington
Wisconsin

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider...
by End-user Type

Total: ⓘ Consumer: ⓘ Business / Gov.: ⓘ

650 0 650

by Services Sold

Total: ⓘ Voice with Internet: ⓘ Voice without Internet: ⓘ

650 650 0

by Last-mile Medium


Total: ⓘ FTTP: ⓘ Coaxial Cable: ⓘ Fixed Wireless & Satellite: ⓘ Copper: ⓘ

650 0 0 0 650

Cancel

Next State

Finished »

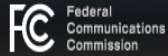
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OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Jun 30, 2018

Submission Status

Original - Submitted

Last Updated: Aug 31, 2018 09:37:48

Submission Menu

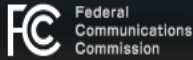
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[Delete Submission](#)

[Filing Overview](#)

This filing has been submitted and is now read-only. To edit, go to the [Main Menu](#) and click [Revise](#).

Data Section	Status
Filer Identification	Data entered
Fixed Services	
Fixed Broadband Deployment	View file(s) Data entered
Fixed Broadband Subscription	View file(s) Data entered
Fixed Voice Subscription	View file(s) Data entered
Mobile Services	
Mobile Broadband Deployment	No data for this section
Mobile Broadband Service Availability	No data for this section
Mobile Broadband Subscription	No data for this section
Mobile Voice Deployment	No data for this section
Mobile Voice Subscription	No data for this section
Explanations and Comments	Data entered

[Main Menu](#) [Form 477 Instructions](#)[Help](#) | OMB No. 3060-0816

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Filer Identification

* Indicates a required field. Please be sure you have all the required Filer Identification information before you begin. You will not be able to save your responses if required fields are incomplete.

FRN: 0018626853

* Provider Name:

CenturyLink, Inc.

* Holding Company/Common Control Name: ⓘ

CenturyLink, Inc.

[Change](#)

Operations:

 ILEC Non-ILEC

Provider's Website Address:

www.centurylink.com

* Study Area Codes (SAC): ⓘ

160138

170209

190254

* Form 499 Filer IDs: ⓘ

801408

802182

802263

Emergency Operations Contact Information ⓘ

* Name:

Stacy Hartman

* Phone Number:

(303) 707-7074

Emergency Operations Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Form 477 Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Certifying Official Contact Information ⓘ

* Name:

* Title:

* Phone Number:

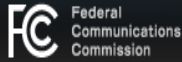
Extension:

* E-Mail:

Non-disclosures

Indicate whether you request non-disclosure of some or all of the subscription information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.

Indicate whether you request non-disclosure of some or all of the mobile deployment spectrum and speed parameters information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.



FRN: 0018626853

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3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

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Subscriptions Listed By State
New Jersey
New Mexico
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
South Carolina
South Dakota
Tennessee
Texas
Utah

Virginia

* All fields are required

Lines provided to Unaffiliated Providers

Wholesale: <input type="text" value="3648"/>	UNE-L: <input type="text" value="1393"/>
--	--

Lines provided to End Users...

by Services Sold		
Total: <input type="text" value="166861"/>	Voice with Internet: <input type="text" value="90232"/>	Voice without Internet: <input type="text" value="76629"/>

by Product Type

Total: <input type="text" value="166861"/>	Consumer Total: <input type="text" value="121577"/>	Business /Gov. Total: <input type="text" value="45284"/>
	Consumer & No PIC: <input type="text"/>	Business/Gov. & No PIC: <input type="text"/>

South Carolina
South Dakota
Tennessee
Texas
Utah
Virginia
Washington
Wisconsin
Wyoming

by Product Type

Total: ⓘ	Consumer Total ⓘ	Business /Gov. Total ⓘ
166861	121577	45284
	Consumer & No PIC: ⓘ	Business/Gov. & No PIC: ⓘ
	30909	20071
	Consumer & PIC: ⓘ	Business/Gov. & PIC: ⓘ
	90668	25213

by Ownership

Total: ⓘ	Owned: ⓘ	UNE-L: ⓘ	Resale: ⓘ
166861	166861	0	0


by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless: ⓘ	Copper: ⓘ
166861	230	0	0	166631

Cancel

Next State

Continue »

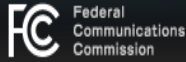
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FRN: 0018626853

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Interconnected VoIP Subscriptions

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1. allocate over-the-top iVoIP subscriptions, where you provide service to end users without also supplying last-mile facilities, between Consumer and Business / Government subscribers;
2. allocate all other iVoIP subscriptions, where you provide service to end users and also supply last-mile facilities, by (a) End User Type, (b) Services Sold, and (c) Last-mile Medium; and
3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

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Each cell must contain a number, even if it's zero! Blanks will cause an error.

Save your work as you go, and when you've entered data for each state, click Finished »

Subscriptions by State
Michigan
Minnesota
Missouri
Nebraska
Nevada
New Mexico
North Carolina
North Dakota
Ohio
Oregon
Pennsylvania
Texas

Virginia

* All fields are required

Grand Totals, by End-user Type

Total	Consumer	Business / Gov.:
650	0	650

Over-the-top Subscriptions

Service to End Users Provided Without also Supplying Last-mile Facilities

Total	Consumer	Business / Gov.:
0	0	0

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider... by End-user Type

Total	Consumer	Business / Gov.:
650	0	650

- Nevada
- New Mexico
- North Carolina
- North Dakota
- Ohio
- Oregon
- Pennsylvania
- Texas
- Utah
- Virginia
- Washington
- Wisconsin
- Wyoming

Over-the-top Subscriptions

Service to End Users Provided Without also Supplying Last-mile Facilities

Total: ⓘ	Consumer: ⓘ	Business / Gov.: ⓘ
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider...
by End-user Type

Total: ⓘ	Consumer: ⓘ	Business / Gov.: ⓘ
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

by Services Sold

Total: ⓘ	Voice with Internet: ⓘ	Voice without Internet: ⓘ
<input type="text" value="650"/>	<input type="text" value="650"/>	<input type="text" value="0"/>

by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless & Satellite: ⓘ	Copper: ⓘ
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

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COUNTY OF ALBEMARLE
Albemarle Broadband Authority
401 McIntire Road
Charlottesville, Virginia 22902-4596
(434) 296-5891

December 12, 2018

As Vice Chair of the Albemarle Broadband Authority (ABBA), I affirm that the current assets as reflected in the Albemarle County, Virginia CAFR for year end June 30, 2018 are available for use as contributions toward 2019 VATI applications.

The funding designated as available in the 2018 CAFR is available as to my knowledge; no other expenses have incurred during ABBA's performance year. The agreement to dedicate these funds for offered VATI grants was unanimously approved by the ABBA Board on their meeting held on December 11, 2018. The total designated contribution toward VATI projects does not exceed available ABBA budget.

The current ABBA assets are documented in the attachment, a Copy of the Albemarle County 2018 CAFR (year end June 30, 2018) Exhibit 38: Combining Statement of Changes in Assets and Liabilities Agency Funds. The ABBA assets are found on page 3.

ABBA is committing \$26,000 cash as in kind contribution toward the completion of the CenturyLink VATI 2019 project for Green Creek Road if VATI funds are offered and accepted.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Culp", is written over a horizontal line.

Mike Culp, Vice Chairman
Albemarle Broadband Authority

Attachment

Attachment A – Copy of the Albemarle County 2018 CAFR (year end June 30, 2018) Exhibit 38: Combining Statement of Changes in Assets and Liabilities Agency Funds

COUNTY OF ALBEMARLE, VIRGINIA

Exhibit 38

Page 1 of 3

Combining Statement of Changes in Assets and Liabilities
Agency Funds
Year Ended June 30, 2018

	Balance July 1, 2017	Additions	Deletions	Balance June 30, 2018
Special Welfare Fund:				
Assets:				
Cash and investments	\$ 74,283	\$ 118,556	\$ 111,431	\$ 81,408
Liabilities:				
Amounts held for others	\$ 74,283	\$ 118,556	\$ 111,431	\$ 81,408
Drug Fund:				
Assets:				
Cash and investments	\$ 151,358	\$ 69,201	\$ 15,476	\$ 205,083
Liabilities:				
Amounts held for others	\$ 151,358	\$ 69,201	\$ 15,476	\$ 205,083
Payroll Suspense Fund:				
Assets:				
Cash and investments	\$ 661,388	\$ 629,890	\$ 661,388	\$ 629,890
Accounts receivable	8,806	5,433	8,806	5,433
Total assets	\$ 670,194	\$ 635,323	\$ 670,194	\$ 635,323
Liabilities:				
Accounts payable	\$ 670,194	\$ 635,323	\$ 670,194	\$ 635,323
HUD Family Self Sufficiency Fund:				
Assets:				
Cash and investments	\$ 24,127	-	-	\$ 24,127
Liabilities:				
Amounts held for others	\$ 24,127	-	-	\$ 24,127
County Contribution Fund:				
Assets:				
Cash and investments	\$ 46,682	\$ 29,969	\$ 15,000	\$ 61,651
Total assets	\$ 46,682	\$ 29,969	\$ 15,000	\$ 61,651
Liabilities:				
Amounts held for others	\$ 46,682	\$ 29,969	\$ 15,000	\$ 61,651
Ace Contribution Fund:				
Assets:				
Cash and investments	\$ 20,511	\$ 223	-	\$ 20,734
Liabilities:				
Amounts held for others	\$ 20,511	\$ 223	-	\$ 20,734

Combining Statement of Changes in Assets and Liabilities
Agency Funds
Year Ended June 30, 2018 (Continued)

	Balance July 1, 2017	Additions	Deletions	Balance June 30, 2018
Firearms Range Operating Fund:				
Assets:				
Cash and investments	\$ 100,389	\$ 243,410	\$ 166,370	\$ 177,429
Accounts receivable	-	-	-	-
Total assets	<u>\$ 100,389</u>	<u>\$ 243,410</u>	<u>\$ 166,370</u>	<u>\$ 177,429</u>
Liabilities:				
Accounts payable	<u>\$ 100,389</u>	<u>\$ 243,410</u>	<u>\$ 166,370</u>	<u>\$ 177,429</u>
CATEC Fund:				
Assets:				
Cash and investments	\$ (288,822)	\$ 2,010,099	\$ 1,874,353	\$ (153,076)
Accounts receivable	<u>429,386</u>	<u>279,817</u>	<u>429,386</u>	<u>279,817</u>
Total assets	<u>\$ 140,564</u>	<u>\$ 2,289,916</u>	<u>\$ 2,303,739</u>	<u>\$ 126,741</u>
Liabilities:				
Accounts payable	<u>\$ 140,564</u>	<u>\$ 2,289,916</u>	<u>\$ 2,303,739</u>	<u>\$ 126,741</u>
Appeal Bond Fund:				
Assets:				
Cash and investments	<u>\$ 4,500</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 4,500</u>
Liabilities:				
Amounts held for others	<u>\$ 4,500</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 4,500</u>
Sheriff Reserve Fund:				
Assets:				
Cash and investments	<u>\$ 1,541</u>	<u>\$ 787</u>	<u>\$ 240</u>	<u>\$ 2,088</u>
Liabilities:				
Amounts held for others	<u>\$ 1,541</u>	<u>\$ 787</u>	<u>\$ 240</u>	<u>\$ 2,088</u>
Performance Bond Fund:				
Assets:				
Cash and investments	<u>\$ 5,351,970</u>	<u>\$ 1,867,409</u>	<u>\$ 1,501,942</u>	<u>\$ 5,717,437</u>
Liabilities:				
Amounts held for others	<u>\$ 5,351,970</u>	<u>\$ 1,867,409</u>	<u>\$ 1,501,942</u>	<u>\$ 5,717,437</u>
Natural Heritage Fund:				
Assets:				
Cash and investments	<u>\$ 1,091</u>	<u>\$ 14</u>	<u>\$ -</u>	<u>\$ 1,105</u>
Liabilities:				
Amounts held for others	<u>\$ 1,091</u>	<u>\$ 14</u>	<u>\$ -</u>	<u>\$ 1,105</u>
Economic Development Authority Fund:				
Assets:				
Cash and investments	\$ 392,237	\$ 146,816	\$ 37,021	\$ 502,032
Accounts receivable	<u>128,237</u>	<u>126,987</u>	<u>128,237</u>	<u>126,987</u>
Total assets	<u>\$ 520,474</u>	<u>\$ 273,803</u>	<u>\$ 165,258</u>	<u>\$ 629,019</u>
Liabilities:				
Amounts held for others	<u>\$ 520,474</u>	<u>\$ 273,803</u>	<u>\$ 165,258</u>	<u>\$ 629,019</u>

Combining Statement of Changes in Assets and Liabilities
 Agency Funds
 Year Ended June 30, 2018 (Continued)

	<u>Balance July 1, 2017</u>	<u>Additions</u>	<u>Deletions</u>	<u>Balance June 30, 2018</u>
Commonwealth Attorney Commission Fund:				
<i>Assets:</i>				
Cash and investments	\$ 190,321	\$ 103,990	\$ 117,482	\$ 176,829
Accounts receivable	<u>2,282</u>	<u>-</u>	<u>2,282</u>	<u>-</u>
Total assets	<u>\$ 192,603</u>	<u>\$ 103,990</u>	<u>\$ 119,764</u>	<u>\$ 176,829</u>
<i>Liabilities:</i>				
Amounts held for others	<u>\$ 192,603</u>	<u>\$ 103,990</u>	<u>\$ 119,764</u>	<u>\$ 176,829</u>
Public Recreation Facility Authority:				
<i>Assets:</i>				
Cash and investments	\$ 145,707	\$ 42,108	\$ 402	\$ 187,413
Liabilities:				
Amounts held for others	<u>\$ 145,707</u>	<u>\$ 42,108</u>	<u>\$ 402</u>	<u>\$ 187,413</u>
Courts Escrow Fund:				
<i>Assets:</i>				
Cash and investments	\$ 7,807	\$ -	\$ -	\$ 7,807
Liabilities:				
Amounts held for others	<u>\$ 7,807</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 7,807</u>
Albemarle Broadband Authority:				
<i>Assets:</i>				
Cash and investments	\$ -	\$ 200,308	\$ -	\$ 200,308
Total assets	<u>\$ -</u>	<u>\$ 200,308</u>	<u>\$ -</u>	<u>\$ 200,308</u>
Liabilities:				
Amounts held for others	<u>\$ -</u>	<u>\$ 200,308</u>	<u>\$ -</u>	<u>\$ 200,308</u>
Totals--All Agency Funds:				
<i>Assets:</i>				
Cash and investments	\$ 6,885,090	\$ 5,462,780	\$ 4,501,105	\$ 7,846,765
Accounts receivable	<u>568,711</u>	<u>412,237</u>	<u>568,711</u>	<u>412,237</u>
Total assets	<u>\$ 7,453,801</u>	<u>\$ 5,875,017</u>	<u>\$ 5,069,816</u>	<u>\$ 8,259,002</u>
Liabilities:				
Accounts payable	\$ 911,147	\$ 3,168,649	\$ 3,140,303	\$ 939,493
Amounts held for others	<u>6,542,654</u>	<u>2,706,368</u>	<u>1,929,513</u>	<u>7,319,509</u>
Total liabilities	<u>\$ 7,453,801</u>	<u>\$ 5,875,017</u>	<u>\$ 5,069,816</u>	<u>\$ 8,259,002</u>



CenturyLink™

DOCUMENTATION SUPPORTING PROJECT COSTS

The cost for this project includes all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the VDSL2 equipment necessary to provide the broadband service. The cost estimates are based on CenturyLink's extensive experience in building these same systems throughout the country and also CenturyLink's experience in its CAFII buildout, where CenturyLink is building DSL circuits to almost 50,000 living units over the course of 6 years using about \$16M per year in federal funding. Additionally, we used the same methods to estimate the costs for our prior VATI applications and the estimates are in line with the actual costs.

The project cost is \$130,000, consisting of \$28,000 in electronics and \$102,000 in fiber. These costs include all of the fiber installation and the VDSL2 equipment required for the project, along with all of the planning, construction and testing costs.

Richard Schollmann
Director



COUNTY OF ALBEMARLE
Albemarle Broadband Authority
401 McIntire Road
Charlottesville, Virginia 22902-4596
(434) 296-5891

December 12, 2018

As Vice Chair of the Albemarle Broadband Authority (ABBA), I affirm that the current assets as reflected in the Albemarle County, Virginia CAFR for year end June 30, 2018 are available for use as contributions toward 2019 VATI applications.

The funding designated as available in the 2018 CAFR is available as to my knowledge; no other expenses have incurred during ABBA's performance year. The agreement to dedicate these funds for offered VATI grants was unanimously approved by the ABBA Board on their meeting held on December 11, 2018. The total designated contribution toward VATI projects does not exceed available ABBA budget.

The current ABBA assets are documented in the attachment, a Copy of the Albemarle County 2018 CAFR (year end June 30, 2018) Exhibit 38: Combining Statement of Changes in Assets and Liabilities Agency Funds. The ABBA assets are found on page 3.

ABBA is committing \$26,000 cash as in kind contribution toward the completion of the CenturyLink VATI 2019 project for Green Creek Road if VATI funds are offered and accepted.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Culp", is written over a horizontal line.

Mike Culp, Vice Chairman
Albemarle Broadband Authority

Attachment

Attachment A – Copy of the Albemarle County 2018 CAFR (year end June 30, 2018) Exhibit 38: Combining Statement of Changes in Assets and Liabilities Agency Funds

COUNTY OF ALBEMARLE, VIRGINIA

Exhibit 38

Page 1 of 3

Combining Statement of Changes in Assets and Liabilities
Agency Funds
Year Ended June 30, 2018

	Balance July 1, 2017	Additions	Deletions	Balance June 30, 2018
Special Welfare Fund:				
Assets:				
Cash and investments	\$ 74,283	\$ 118,556	\$ 111,431	\$ 81,408
Liabilities:				
Amounts held for others	\$ 74,283	\$ 118,556	\$ 111,431	\$ 81,408
Drug Fund:				
Assets:				
Cash and investments	\$ 151,358	\$ 69,201	\$ 15,476	\$ 205,083
Liabilities:				
Amounts held for others	\$ 151,358	\$ 69,201	\$ 15,476	\$ 205,083
Payroll Suspense Fund:				
Assets:				
Cash and investments	\$ 661,388	\$ 629,890	\$ 661,388	\$ 629,890
Accounts receivable	8,806	5,433	8,806	5,433
Total assets	\$ 670,194	\$ 635,323	\$ 670,194	\$ 635,323
Liabilities:				
Accounts payable	\$ 670,194	\$ 635,323	\$ 670,194	\$ 635,323
HUD Family Self Sufficiency Fund:				
Assets:				
Cash and investments	\$ 24,127	-	-	\$ 24,127
Liabilities:				
Amounts held for others	\$ 24,127	-	-	\$ 24,127
County Contribution Fund:				
Assets:				
Cash and investments	\$ 46,682	\$ 29,969	\$ 15,000	\$ 61,651
Total assets	\$ 46,682	\$ 29,969	\$ 15,000	\$ 61,651
Liabilities:				
Amounts held for others	\$ 46,682	\$ 29,969	\$ 15,000	\$ 61,651
Ace Contribution Fund:				
Assets:				
Cash and investments	\$ 20,511	\$ 223	-	\$ 20,734
Liabilities:				
Amounts held for others	\$ 20,511	\$ 223	-	\$ 20,734

Combining Statement of Changes in Assets and Liabilities
Agency Funds
Year Ended June 30, 2018 (Continued)

	<u>Balance July 1, 2017</u>	<u>Additions</u>	<u>Deletions</u>	<u>Balance June 30, 2018</u>
Firearms Range Operating Fund:				
Assets:				
Cash and investments	\$ 100,389	\$ 243,410	\$ 166,370	\$ 177,429
Accounts receivable	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Total assets	<u>\$ 100,389</u>	<u>\$ 243,410</u>	<u>\$ 166,370</u>	<u>\$ 177,429</u>
Liabilities:				
Accounts payable	<u>\$ 100,389</u>	<u>\$ 243,410</u>	<u>\$ 166,370</u>	<u>\$ 177,429</u>
CATEC Fund:				
Assets:				
Cash and investments	\$ (288,822)	\$ 2,010,099	\$ 1,874,353	\$ (153,076)
Accounts receivable	<u>429,386</u>	<u>279,817</u>	<u>429,386</u>	<u>279,817</u>
Total assets	<u>\$ 140,564</u>	<u>\$ 2,289,916</u>	<u>\$ 2,303,739</u>	<u>\$ 126,741</u>
Liabilities:				
Accounts payable	<u>\$ 140,564</u>	<u>\$ 2,289,916</u>	<u>\$ 2,303,739</u>	<u>\$ 126,741</u>
Appeal Bond Fund:				
Assets:				
Cash and investments	<u>\$ 4,500</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 4,500</u>
Liabilities:				
Amounts held for others	<u>\$ 4,500</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 4,500</u>
Sheriff Reserve Fund:				
Assets:				
Cash and investments	<u>\$ 1,541</u>	<u>\$ 787</u>	<u>\$ 240</u>	<u>\$ 2,088</u>
Liabilities:				
Amounts held for others	<u>\$ 1,541</u>	<u>\$ 787</u>	<u>\$ 240</u>	<u>\$ 2,088</u>
Performance Bond Fund:				
Assets:				
Cash and investments	<u>\$ 5,351,970</u>	<u>\$ 1,867,409</u>	<u>\$ 1,501,942</u>	<u>\$ 5,717,437</u>
Liabilities:				
Amounts held for others	<u>\$ 5,351,970</u>	<u>\$ 1,867,409</u>	<u>\$ 1,501,942</u>	<u>\$ 5,717,437</u>
Natural Heritage Fund:				
Assets:				
Cash and investments	<u>\$ 1,091</u>	<u>\$ 14</u>	<u>\$ -</u>	<u>\$ 1,105</u>
Liabilities:				
Amounts held for others	<u>\$ 1,091</u>	<u>\$ 14</u>	<u>\$ -</u>	<u>\$ 1,105</u>
Economic Development Authority Fund:				
Assets:				
Cash and investments	\$ 392,237	\$ 146,816	\$ 37,021	\$ 502,032
Accounts receivable	<u>128,237</u>	<u>126,987</u>	<u>128,237</u>	<u>126,987</u>
Total assets	<u>\$ 520,474</u>	<u>\$ 273,803</u>	<u>\$ 165,258</u>	<u>\$ 629,019</u>
Liabilities:				
Amounts held for others	<u>\$ 520,474</u>	<u>\$ 273,803</u>	<u>\$ 165,258</u>	<u>\$ 629,019</u>

Combining Statement of Changes in Assets and Liabilities
 Agency Funds
 Year Ended June 30, 2018 (Continued)

	Balance July 1, 2017	Additions	Deletions	Balance June 30, 2018
Commonwealth Attorney Commission Fund:				
Assets:				
Cash and investments	\$ 190,321	\$ 103,990	\$ 117,482	\$ 176,829
Accounts receivable	2,282	-	2,282	-
Total assets	<u>\$ 192,603</u>	<u>\$ 103,990</u>	<u>\$ 119,764</u>	<u>\$ 176,829</u>
Liabilities:				
Amounts held for others	<u>\$ 192,603</u>	<u>\$ 103,990</u>	<u>\$ 119,764</u>	<u>\$ 176,829</u>
Public Recreation Facility Authority:				
Assets:				
Cash and investments	\$ 145,707	\$ 42,108	\$ 402	\$ 187,413
Liabilities:				
Amounts held for others	<u>\$ 145,707</u>	<u>\$ 42,108</u>	<u>\$ 402</u>	<u>\$ 187,413</u>
Courts Escrow Fund:				
Assets:				
Cash and investments	\$ 7,807	\$ -	\$ -	\$ 7,807
Liabilities:				
Amounts held for others	<u>\$ 7,807</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 7,807</u>
Albemarle Broadband Authority:				
Assets:				
Cash and investments	\$ -	\$ 200,308	\$ -	\$ 200,308
Total assets	<u>\$ -</u>	<u>\$ 200,308</u>	<u>\$ -</u>	<u>\$ 200,308</u>
Liabilities:				
Amounts held for others	<u>\$ -</u>	<u>\$ 200,308</u>	<u>\$ -</u>	<u>\$ 200,308</u>
Totals--All Agency Funds:				
Assets:				
Cash and investments	\$ 6,885,090	\$ 5,462,780	\$ 4,501,105	\$ 7,846,765
Accounts receivable	568,711	412,237	568,711	412,237
Total assets	<u>\$ 7,453,801</u>	<u>\$ 5,875,017</u>	<u>\$ 5,069,816</u>	<u>\$ 8,259,002</u>
Liabilities:				
Accounts payable	\$ 911,147	\$ 3,168,649	\$ 3,140,303	\$ 939,493
Amounts held for others	6,542,654	2,706,368	1,929,513	7,319,509
Total liabilities	<u>\$ 7,453,801</u>	<u>\$ 5,875,017</u>	<u>\$ 5,069,816</u>	<u>\$ 8,259,002</u>



CenturyLink™

**DOCUMENTATION THAT PROPOSED PROJECT AREA
IS UNSERVED BASED ON VATI CRITERIA**

As described in the responses to application question two, based on our knowledge of the area and contact with other providers who serve in the surrounding area, the applicant and co-applicant are unaware of any customers in the project area who are “served” under the VATI criteria by any other provider.

Richard Schollmann



CenturyLink™

Documentation That Proposed Area Is Not Designated For CAF

There is no longer any restriction on using VATI funds for areas designated for CAF.
Regardless, this area is not designated for CAF funding.

Rich Schollmann
Director

VATI FUNDING 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	\$ 78,000	60	Pending
CenturyLink	\$ 26,000	20	Secured
ABBA	\$ 26,000	20	Secured
TOTAL	\$130,000.00	100 %	

5/15/2018 Albemarle County, VA Green Creek Road Broadband Project Report

The purpose of this report is to define a project is to provide at minimum 10mbps down/2mbps up broadband speeds with consistent ping times and latency; at a reasonable cost.

This report is specific to an area north of Schuyler, VA and west of Esmont, VA. In the report area there are least 120 potential living units (L.U.s) which could be served through a DSL type upgrade; however, we are considering all options.

The Albemarle Broadband Authority (ABBA) conducted a broadband feedback process during April 2018. The process included collection of comments, feedback on the need for internet and lack of service, and speed tests. ABBA also held a meeting with 14 residents of the report area. Each have expressed interest in improving broadband.

This report contains a listing of the L.U.s who have thus far responded; a speed test summary; select comments from residents of the area; and and project area maps. Please use the tabs below to navigate the report.

Most of the responders have satellite service either through Viasat, HughesNet, or Excede. None are happy with the service cost or reliability. Speed tests indicate significant "slowness" after 5pm and throughout the evening hours.

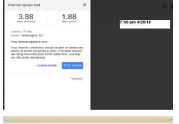
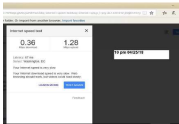
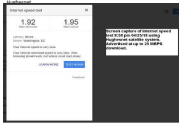
Our intent is to schedule a meeting in Schuyler, VA where interested ISPs can meet with residents and ABBA members to discuss options.

Please let us know of your interest by e-mailing broadband@albemarle.org or by calling (434) 296-5891 and talking with Mike Culp.

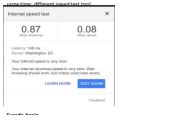
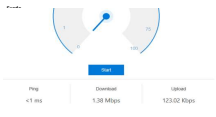
These are the addresses or Lat./Long. of L.U.s in the project area who have contacted ABBA about improved broadband.

Physical Address	Latitude	Longitude
4873 Green Creek Rd, Schuyler, VA 22969	37.834391	-78.666449
6145 Helens Way, Schuyler, VA 22969	37.839223	-78.671891
6980 Green Creek Lane, Schuyler, VA 22969	37.847807	-78.650947
5220 Green Creek Rd, Schuyler, VA 22969	37.82778	-78.680988
4867 Green Creek Rd, Schuyler, VA 22969	37.836235	-78.66506
5180 Green Creek Rd, Schuyler, VA 22969	37.828681	-78.679236
3724 Green Creek Rd, Schuyler, VA 22969	37.866597	-78.63067
4609 Green Creek Rd, Schuyler, VA 22969	37.844874	-78.66452
4737 Green Creek Rd, Schuyler, VA 22969	37.840826	-78.665768
5121 Green Creek Rd, Schuyler, VA 22969	37.828376	-78.67646
5730 Green Creek Rd, Schuyler, VA 22969	37.815103	-78.699071
5843 Green Creek Rd, Schuyler, VA 22969	37.812817	-78.700337
5709 Green Creek Rd, Schuyler, VA 22969	37.814656	-78.696009
7299 Briar Springs Farm Lane, Schuyler, VA 22969	37.836963	-78.670135
N/A (Anon)	37.859984	-78.645753
5000 Green Creek Rd, Schuyler, VA 22969	37.833149	-78.67425
4955 Appleberry Lane, Schuyler, VA 22969	37.840132	-78.6706
4632 Green Creek Rd, Schuyler, VA 22969	37.847534	-78.668319
5230 Green Creek Rd, Schuyler, VA 22969	37.827427	-78.681785
6144 Helens Way, Schuyler, Va. 22969	37.839711	-78.671262
N/A (Provided comments, no address)		
4613 Green Creek Road, Schuyler, VA 22969	37.844743	-78.662915
6680 Green Creek Lane, Schuyler, VA 22969	37.854092	-78.653989
N/A (Provided Parcel Number)	37.85345	-78.671307
4990 Appleberry Farm Road, Schuyler, VA 22969	37.844571	-78.67612
4926 Appleberry Lane, Schuyler, VA 22969	37.839163	-78.66853
4994 Appleberry Farm Rd Schuyler, VA 22969	37.846463	-78.675582
7234 Briar Springs Farm Rd Schuyler, VA 22969	37.838997	-78.672307

Speed Test Samples (50% of those received)



Intermittent Slow Times
 4/25 - 8:28am 16.8 down 3.7 up Ping 688.0
 8:29am 16.8 down 1.99 up Ping 688.0
 8:30pm 11.1 down 1.4 up Ping 582.0
 4/26 - 7:44am 16.4 down 3.6 up Ping 736.0
 8:13pm 16.8 down 3.3 up Ping 1028.0
 4/27 - 8:28am 17.0 down 3.3 up Ping 626.0



Collection of notes we've received from residents of the Green Creek Road Area

CenturyLink

Re: High-speed broadband internet in Southern Albemarle County.

To Whom It May Concern:

As I will be unable to attend the meeting at the County building on April 18, 2018 of the Albemarle Broadband Authority, I would like to express my opinion.

I would encourage CenturyLink to install high-speed broadband Internet in our area. Since our last petition many years ago, there have been several additional residences built in our area. This is a fast-growing neighborhood, and I think everyone here would like to have this service available to them.

It would be helpful not only to students who would be able to access the Internet for studies, but also to hold her citizens who are homebound and would then be able to access necessary services such as health records, social security and Medicaid and Medicare sites. At this point in time, it is very difficult to accomplish these endeavors because of the absence of high-speed Internet.

My disability prevents me from attending this meeting in person, but I need to express my strong support for the extension of high speed internet service to our area. The internet is essential for me to be able to have a job and work from my home. Because satellite internet is not always reliable I have had to install a T1 line at a cost of \$555 a month in order to be able to work. This is a terribly burdensome expense for me at 71 years old and on a limited income.

I appreciate your consideration.

I would like to express my support for the effort to bring broadband internet into Schuyler, VA. While my wife and I do not currently own a home in the area, we are looking to purchase a home along Green Creek road. One of the driving factors in not having purchased a home is the lack of broadband internet and spotty, at best, phone service.

Our daughter and son-in-law live on Green Creek Road and we attempt to visit frequently, but lack of internet in the area greatly reduces our opportunity to do so. My work requires frequent connectivity and I utilize the internet extensively in my studies for a PhD. Our ability to visit is greatly hampered by the need to meet work and school demands.

I would attend the meeting Wednesday night in support if my schedule had allowed. Please let me know if there is anything I can do to support the effort.

Thank you

I received your letter in the mail regarding internet service. I will not be available to attend the meeting unfortunately. I thank you for your efforts at trying to upgrade internet in our area. I currently have CenturyLink, but the speed is absolutely terrible.

I would like to suggest possibly mentioning the development of our area; two houses built by me and one more going to be built this year and another not far down the road. I am not certain where the other areas are that they are considering using these funds and what the development looks like in those areas, but it could help to bring this up. Just a thought.

Thank you

Yes, you have my permission to print and to use my email. I am absolutely dissatisfied with the internet service here. It is extremely slow and I pay the same rate as others who have much faster speeds. I would pay more for the service if it was upgraded, but only if the rate was in line with other areas.

I work in Albemarle County, actually for the County, and I have to depend on internet service when at home to be able to work while at home. Sometimes tasks are impossible to complete because of the internet speeds.

I have written letters to CenturyLink, with no response. I have called and spoke with CenturyLink representatives and each time they tell me something about like "CenturyLink will be upgrading internet service in your area by this time next year". This has been their statement for the last several years.

CenturyLink

Re: High-speed broadband internet in Southern Albemarle County.

To Whom It May Concern:

We are writing to express our support in bringing the Internet to the area where I live in Albemarle County. We will not be able to attend the meeting on April 18, 2018 concerning the Albemarle Broadband Authority.

We have recently purchased a home in Schuyler and discovered after the fact that we would not be able to install access to the internet in our home. We would like encourage CenturyLink to install high-speed broadband Internet in our area. Although the area where we live is in a remote neighborhood, it has grown tremendously over the years we have been visiting this area prior to our home purchase. This is a fast-growing area with easy access to Scottsville and even Charlottesville. There are subdivision plans within just 3 miles of our home and I think everyone here would need to have this service available to them. It certainly would be another positive feature of moving to this community, including the access needed for our school aged children and their ability to move into 21st Century expectations as we grow in our collective cultural literacy.

For our citizens who are homebound or those who work from home, this is also important in maintaining a high quality of life that includes necessary services such as health records, social security and Medicaid and Medicare sites. At this point in time, it is very difficult to obtain these because of the absence of high-speed Internet.

I have had to call every few weeks just to see if the timeline has changed for these services to start. This internet service is vital to our every day life and we would like to strongly request that it be a priority for CenturyLink to serve thsi community as a valued resource for the homeowners living in this area.

I understand there is a petition for this service and we would like to add our names to that list.

Our satellite internet sometimes cuts off for no apparent reason. Sometimes it will start up again if we reboot right away; sometimes we have to wait and reboot some time later before it will restart.

When we exceed our data usage for the month, the speed is reduced to dial up speed or less and is not practical even for loading web pages.

My wife is an attorney who maintains her only work office in our home. Internet is crucial for corresponding with clients, researching law, sending and downloading documents, etc. Filing fiduciary tax returns can only be submitted online now. This is our highest priority when it comes to using our data allowance. She sometimes sits outside businesses in town with free wifi just so she can keep up with her work without using our data allowance.

Paying bills, filing taxes, keeping track of medical records and insurance payments, and online banking all require the internet.

The internet is an incredible educational resource, and education is not just for kids in school. As I am now retired, I find myself continually wanting to look up information about topics of interest to me. There is an enormous amount of incredible information for an amateur astronomer, as just one example. Again, I have to ration my usage and limit what I can research, and if there is a useful and informative short video, I have to skip it.

Our six children and six grandchildren visit us often. They have to turn off their phone wifi and we turn off our wifi when they are here to be sure there is no additional usage. Three of our children need to keep up with work using the internet. One son is an attorney who must keep up with ongoing cases while he is away from home and his office. One daughter works for an internet marketing firm and often needs to be on video conference calls in addition to email. Both of these children require more internet usage than we can provide and sometimes they have not been able to stay with us because our limits on internet usage do not allow them to work.

When we are discussing something and a question comes up, we have to ask ourselves if we have enough data usage left to ask Google for information. It is frustrating how often someone says "If we could use internet we could look that up." I would love to be able to find immediate information and answers to questions.

Our six grandchildren live in different parts of Virginia and North Carolina. While many grandparents can enjoy video calls with their grandchildren using Facebook or Google Hangouts, we cannot.

Living where we do far from town, we shop online several days a week. Researching a product, different brands, different features, etc., can often take a lot of our data allowance.

Software updates that are necessary for cybersecurity can use large amounts of our monthly data allowance. One large Windows 10 update took over 3 GB, or 25% of our monthly allowance. We have to get up at 3:00 a.m. to take advantage of the free period from 3:00 to 6:00 a.m. to do our updates.

We don't even think about entertainment like streaming music, or movies from Netflix or Amazon, even though it is free

with Amazon Prime. This would require more speed and bandwidth than we have.

Internet User Information

Please answer the following. You can use the space on the back for additional comments:

1. Name and Address of Business or Home, and best phone number to reach you (not required)

Name and address with-held

2. Using the address entered, do you have internet service at your home or business?

Yes Hughesnet Satellite service

3. If no internet service, why not?

4. If you have internet service, do you know the advertised upload/download speed and if achieved would it be sufficient for your needs?

The advertised download speed is UP TO 25 Mbps. Advertised upload is UP TO 5 MBbps

5. Does your current provider limit the amount of data you can download each month without decreasing your connection speed?

Yes once we go over our cap amount 50 Gigs for 30 days, the system slows to a crawl, except that you get "Bonus" aigs if you use the system between 1am and 8am. Even when we are still under the cap, during evening prime time, the system runs extremely slowly because everyone is using it at once. I just ran a test which came back at 1.92 Mbps download. 9pm in the evening. This is typical. Video will buffer endlessly at that speed.

6. If yes, does this cause problems for you? Please explain more in the space provided on the back of this form. Yes, it causes problems. Both my wife and I work out of the house and need the internet to conduct our business. Even being extremely careful, we end up running out of Gigs prior to the end of every 30 day service period and end up having to buy more "tokens" for additional Gigs. And this is with avoiding watching any videos except during the 1am to 8am window, and even then limited to short periods of less than an hour. Open a webpage these days and a video screen is running on it somewhere. With Hughesnet, you have to find that feed and shut it down ASAP or it will drain your data allotment. I can no longer watch a Youtube video on how to replace the carburetor on my lawn mower, let alone some news story or entertainment unless I do it at some odd hour. Forget about watching a TV episode you missed by going to the on-line site that features re-plays.

7. If you have internet service, which provider have you selected and are you happy with the service?

No, we are not happy with our service. If I can think of one word to describe their service: awful! We are not their customers, we are their hostages. Clearly they have overbooked their satellite, or if they haven't, it certainly runs that way. I would happily pay their termination fee (another nice feature of Hughesnet) if we had another option. Their online information about their service, is carefully worded, and while technically not outright lies – is otherwise most definitely misleading and not truthful. The business model seems to be to provide inadequate service and use that as a lever to wring more money out of the customers. Hughesnet claims to have fast speeds and no caps on data. Again, while technically not false, the reality is that you get moderately fast speed inconsistently (mostly at off peak hours) usually not when you want it or need it. Their statement of having no cap on data is like having all the beer you can drink as long as you can only drink it thru a straw half the diameter of a cocktail straw. Their claims are disingenuous at best. Aside from the annoyance of

having slow speeds when you want it most, the big issue is the cap. We pay extra to have a 50 aig cap. We easily could run that out in 5 to 10 days and be stuck for the rest of the month. I refuse to pay more to raise the cap to 70 aigs. I am suspicious that raising the cap will make little to no difference aside from the fact a paying that amount per month for poor speeds when you really want them is rewarding the bad behavior of Hughesnet and terrible value for the customer.

8. Have you attempted to use any other internet service, and if so, what were the results?

We moved here from Pennsylvania in the last year. We used to have Verizon Fios. That is what the internet should be. Hughesnet's business model is predicated on the premise that its customers have no other option, except its satellite competitors who are equally poor or worse. Overall we paid more for Fios, but it was bundled with phone and Cable TV, so it is not an apples to apples comparison. If we added the cost of Satellite TV and the cost of a landline to our Hughnet service, we would be paying more than we were paying for Fios. Value-wise Fios is 100 times better than Hughesnet.

IMHO, in today's world broadband service is a necessary utility, not the cash cow of a profit seeking entity. They should be regulated in order to: A) be truthful about the realities of their service and B) should not have data caps for normal reasonable residential use, but only for high data users. If inconsistent download speeds are the result of technical limitations of satellite service, I can live with that. If they are the result of maximizing profits for the company, then that type of behavior needs to

that, if they are the result of maximizing profits for the company, then that type of behavior needs to be regulated due to the importance of internet service to the overall efficiency of economic commerce as a whole.

Please add my name to your list of people in the neighborhood who would be interested in DSL or other high speed options. I currently have Exede service through Nelson Cable, which I would characterize as "ok". My new data package is 150 GBs per month for \$129.99. When we first got Exede they were advertising speeds of 20mbps, but as time has gone on that has dwindled. During peak hours our speed is frequently under 1mbps, and at best its probably around 5. I can sometimes stream, although quality is not ideal.

2. Using the address entered, do you have internet service at your home or business?

Yes, I have HughesNet

3. If no internet service, why not?

4. If you have internet service, do you know the advertised upload/download speed and if achieved would it be sufficient for your needs?

They advertise download speeds of up to 25Mbps and 3Mbps upload speeds and if I actually had that every time I use the computer it would be ok.

5. Does your current provider limit the amount of data you can download each month without decreasing your connection speed?

I pay for a 20GB plan. If I go over that then they reduce my connection speeds to 1-3Mbps.

6. If yes, does this cause problems for you? Please explain more in the space provided on the back of this form.

Currently 20GB of data a month is enough for me. If I had connection speeds that allowed me to stream movies then I might use more data.

7. If you have internet service, which provider have you selected and are you happy with the service?

I currently have HughesNet. Connection speeds during the daytime are ok (not great) but in the evenings and on weekends it gets very slow. I'm not happy with the speed. Right now I'm not working and can do my online banking during the mornings but it's very difficult to pay bills and take care of other online activities in the evening.

8. Have you attempted to use any other internet service, and if so, what were the results?

No. There are no other options except for satellite Internet service here. Because of the trees here it would be impossible to switch to another provider unless their satellite is also higher overhead. Most satellites are lower and the satellite dish would end up pointing into the trees and not getting a signal.

1. VIASAT (formerly WildBlue)

2. Liberty 25 - Boost 25 + Free Zone [Plan details](#)

25 GB/month data

Speeds up to 25 Mbps

3 AM - 6 AM Free Zone

VIASAT is better than Hughesnet, which I've also used previously. Satellite internet is the best we can get, but is not sufficient for normal home use and would be a disaster if you needed it for work purposes. It is sub-par and very expensive. Currently in my area I can choose 12Mbps/12GB per month for \$50, 12 Mbps/25GB per month for \$75, or 12Mbps/50GB per month for \$100. None of these will run a movie except between 3 and 6a.m.

3. 12 years ago I had dialup on my cell phone when we had the EMBARQ tower. I could use email, and could surf the internet, but could not download or run video. I no longer have enough signal in my home to run a hotspot from my cell phone.

CenturyLink DSL

I was only home for the speed tests that I could complete. On the prior evening I did not have functional service that would even allow email or any web connections so no tests were performed. Note that I am paying for two DSL lines that are load balanced through a router so I can't identify which line was used

for the testing.

I do receive a disconnect and reconnect for one of my DSL lines (eth0 on router) at least 5 times a day from the controller.

You recommended using Century Links speed test which failed to complete 80% of the time and also reported downloads at twice the speed of a generic speed test.

Latency is always the issue with the DSL service which is compounded by weather and also reported animals in splice boxes (reports by Century Link technicians who have come out for repairs).

If they install fiber I am willing to pay more for quality service, not sure how a total copper solution would help.

HughesNet

Thank you for gathering all this information and fighting for better internet service! We have Centurylink for our phone provider. We have not had many issues. Sometimes the phone will ring during a lightning storm or we hear crackles when the weather is bad but other than that we haven't had any problems. HughesNet makes it difficult to figure out how much data you use over a period of time. It seems in the last 10 days we have used 2.5 GB. This is mostly because we do not stream videos, music, or download anything since you must pay for data. Very frustrating. There are times that I could work from home but am unable to because of poor speeds and my data plan (20 GB/month, which we still end up going over).

No Service

We do not have Internet of any kind. We rely on a hotspot from our Verizon cell phone. The hotspot is EXTREMELY unreliable.

3. If no internet service, why not?

There is no real service in our area. Verizon rarely has one bar of LTE service that I can access for about 30 minutes tops to send out emails.

4. If you have internet service, do you know the advertised upload/download speed and if achieved would it be sufficient for your needs?

NA

5. Does your current provider limit the amount of data you can download each month without decreasing your connection speed?

6. If yes, does this cause problems for you? Please explain more in the space provided on the back of this form.

7. If you have internet service, which provider have you selected and are you happy with the service?

8. Have you attempted to use any other internet service, and if so, what were the results?

We tried to use DISH; but, our house was out of area for them.

Sorry if our answers were not helpful. Thank you so much for trying to help with better phone and Internet service in our area. My husband and I are very grateful.

My wife forwarded your questionnaire to me and I have attached a PDF with our answers. The digital divide that exists in Schuyler is not lack of access, but lack of affordability. Just about anyone can use satellite services here, but these providers are expensive. The typical resident in southern Albemarle County cannot afford \$150/month for internet service. If an affordable alternative was available that did not have data caps the area would be better served.

Small Business in Area

The only way I have been able to do business, as I need to be compliant with HIPAA regulations, is to pay for a T1 line, which started out costing me about \$480 a month. It has now gone up to \$555 a month, which is quite a strain on me as I am senior citizen and not able to do a lot of work.

While the T1 line is pretty reliable, I have had problems with it. After the 1st few years of having no problems, I noticed that every time I had a thunderstorm, the circuit board would fry. After repair services came out many times, they provided me with circuit boards as backups to replace, but I now have to remove the circuit board by hand every time there is a thunderstorm or a threat of a thunderstorm if we are leaving the house. As a result of that continual manipulation of this board, last year repairs services had to rewire the box that the board goes into. I am always afraid that I will touch the wrong part of the board and injure myself with the electricity. This has been a bit nerve-racking.

I am truly hoping that CenturyLink will seriously consider putting DSL in our area as there are many customers here and there have been new homes built in the area. I expect that there will be many more as there is a lot of vacant land here.

When I ran the test today, the speed test came back as 1.5 up and 1.5 down; however, that being said, there are times that my modem indicates that it is only running at 0.1 up and 0.1 down. I did have this checked by CenturyLink repair services, and they suggested that there may be a local block on my line for some reason, but they did not go further other than to offer me a possible phone number to call to check this, which I have not done as yet.

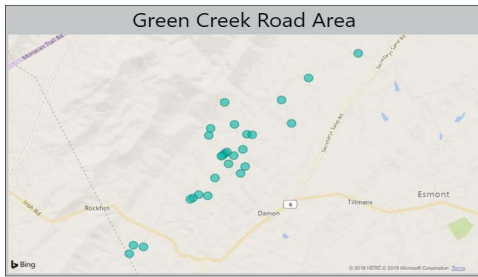
The volume of my business has decreased with technology. The prohibitive cost of the T1 line is probably going to force me to close my business at the end of this year, according to my accountant.

I really appreciate everything you are doing to try to help us in this matter.

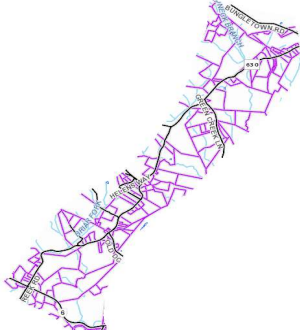
Albemarle County Broadband Project



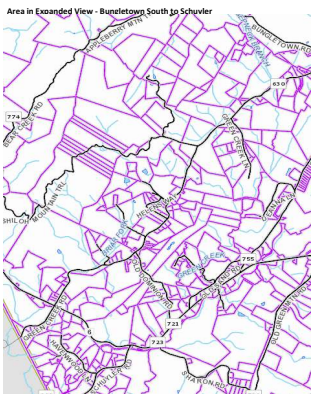
A visualization in the area of Green Creek Road representing the need and want of faster internet.



All of the dots above [29] represent L.U.'s where residents have contacted us interested in better broadband

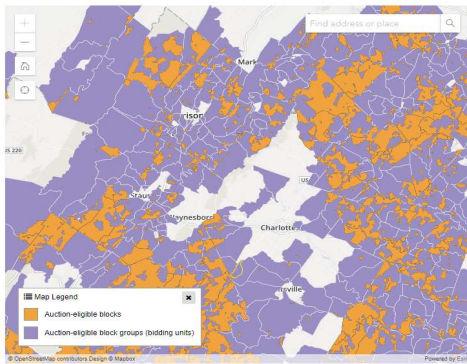


Representative Section Requesting Improved Broadband (Green Creek Road - Rt. 630)



Approximate Service Area Highlighted in Yellow
 Secure | <https://www.fcc.gov/maps/caf2-auction-final-areas/>

Connect America Phase II Auction: Final Eligible Areas



Orange areas: census blocks eligible for CAF Phase II support through Auction 903
 Purple areas: census block groups that contain eligible census blocks. Eligible census blocks are grouped into census block groups for bidding in Auction 903 for more information, see the Auction 903 Procedures Public Notice). Clicking on a census block group will reveal the total number of locations and the total annual reserve price rounded to the nearest dollar.
 The Auction: The Connect America Fund Phase II Auction (Auction 903) will use competitive bidding to award up to \$1.98 billion of universal service support over 10 years to areas currently unserved by broadband. For

Albemarle County, VA Green Creek Road Broadband Project Report

The purpose of this report is to define a project is to provide at minimum 10mbps down/2mbps up broadband speeds with consistent ping times and latency; at a reasonable cost.

This report is specific to an area north of Schuyler, VA and west of Esmont, VA. In the report area there are least 120 potential living units (L.U.s) which could be served through a DSL type upgrade; however, we are considering all options.

"The Albemarle Broadband Authority (ABBA) conducted a broadband feedback process during April 2018. The process included collection of comments, feedback on the need for internet and lack of service, and speed tests. ABBA also held a meeting with 14 residents of the report area. Each have expressed interest in improving broadband."

This report contains a listing of the L.U.s who have thus far responded; a speed test summary in 6 pages; select comments from residents of the area in 9 pages; and project area maps.

Most of the responders have satellite service either through Viasat (formally Excede) or HughesNet. None are happy with the service cost or reliability. Speed tests indicate significant "slowness" after 5pm and throughout the evening hours.

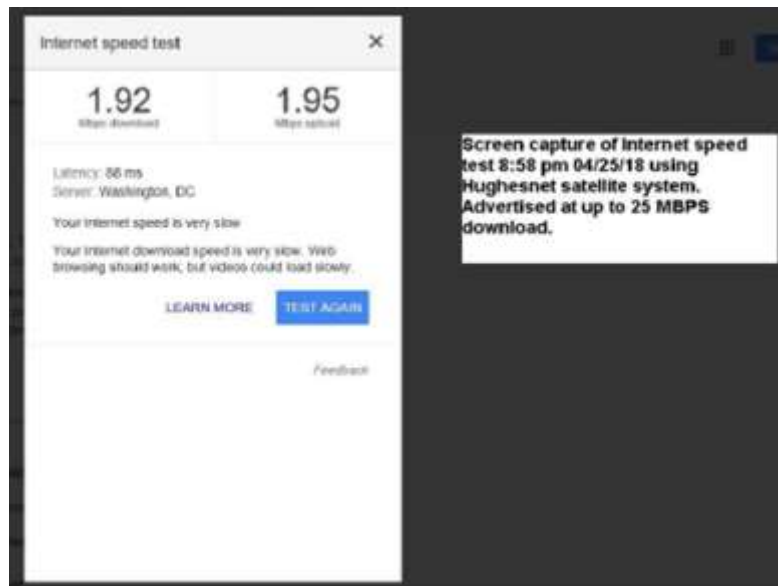
Our intent is to schedule a meeting in Schuyler, VA where interested ISPs can meet with residents and ABBA members to discuss options.

Please let us know of your interest by e-mailing broadband@albemarle.org or by calling (434) 296-5891 and talking with Mike Culp.

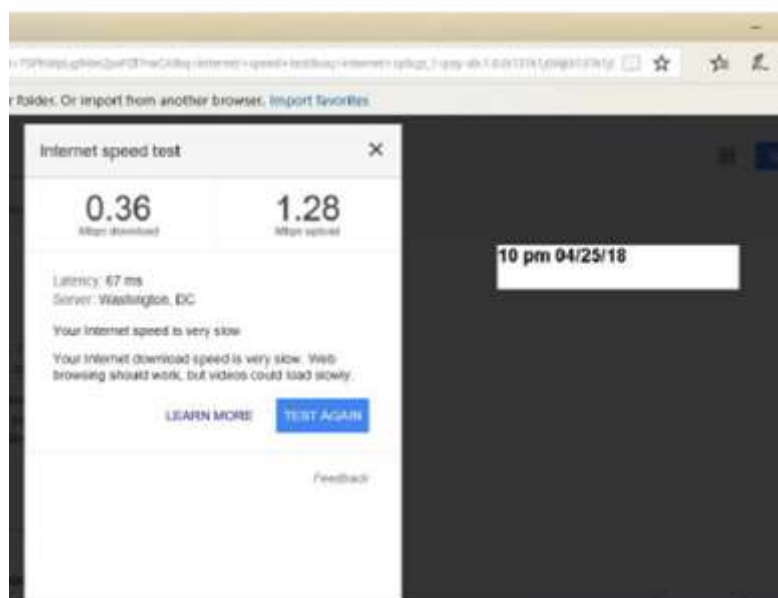
These are the addresses or Lat./Long. of L.U.s in the project area who have contacted ABBA about improved broadband.

Physical Address	Latitude	Longitude
4873 Green Creek Rd, Schuyler, VA 22969	37.834391	-78.666449
6145 Helens Way, Schuyler, VA 22969	37.839223	-78.671891
6980 Green Creek Lane, Schuyler, VA 22969	37.847807	-78.650947
5220 Green Creek Rd, Schuyler, VA 22969	37.82778	-78.680988
4867 Green Creek Rd, Schuyler, VA 22969	37.836235	-78.66506
5180 Green Creek Rd, Schuyler, VA 22969	37.828681	-78.679236
3724 Green Creek Rd, Schuyler, VA 22969	37.866597	-78.63067
4609 Green Creek Rd, Schuyler, VA 22969	37.844874	-78.66452
4737 Green Creek Rd, Schuyler, VA 22969	37.840826	-78.665768
5121 Green Creek Rd, Schuyler, VA 22969	37.828376	-78.67646
5730 Green Creek Rd, Schuyler, VA 22969	37.815103	-78.699071
5843 Green Creek Rd, Schuyler, VA 22969	37.812817	-78.700337
5709 Green Creek Rd, Schuyler, VA 22969	37.814656	-78.696009
7299 Briar Springs Farm Lane, Schuyler, VA 22969	37.836963	-78.670135
N/A (Anon)	37.859984	-78.645753
5000 Green Creek Rd, Schuyler, VA 22969	37.833149	-78.67425
4955 Appleberry Lane, Schuyler, VA 22969	37.840132	-78.6706
4632 Green Creek Rd, Schuyler, VA 22969	37.847534	-78.668319
5230 Green Creek Rd, Schuyler, VA 22969	37.827427	-78.681785
6144 Helens Way, Schuyler, Va. 22969	37.839711	-78.671262
N/A (Provided comments, no address)		
4613 Green Creek Road, Schuyler, VA 22969	37.844743	-78.662915
6680 Green Creek Lane, Schuyler, VA 22969	37.854092	-78.653989
N/A (Provided Parcel Number)	37.85345	-78.671307
4990 Appleberry Farm Road, Schuyler, VA 22969	37.844571	-78.67612
4926 Appleberry Lane, Schuyler, VA 22969	37.839163	-78.66853
4994 Appleberry Farm Rd Schuyler, VA 22969	37.846463	-78.675582
7234 Briar Springs Farm Rd Schuyler, VA 22969	37.838997	-78.672307

Albemarle County, VA Green Creek Road Broadband Project Report Speed Test Samples (Page 1 of 6)

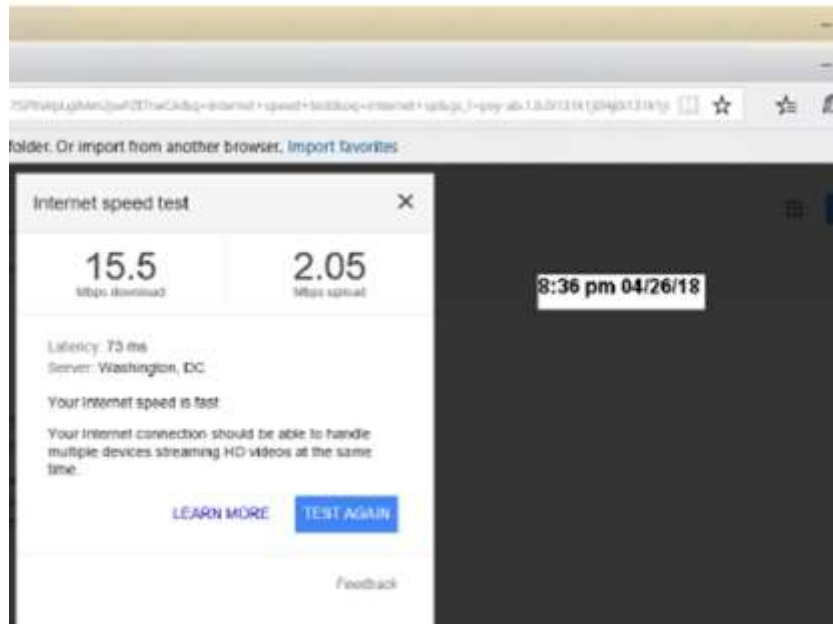
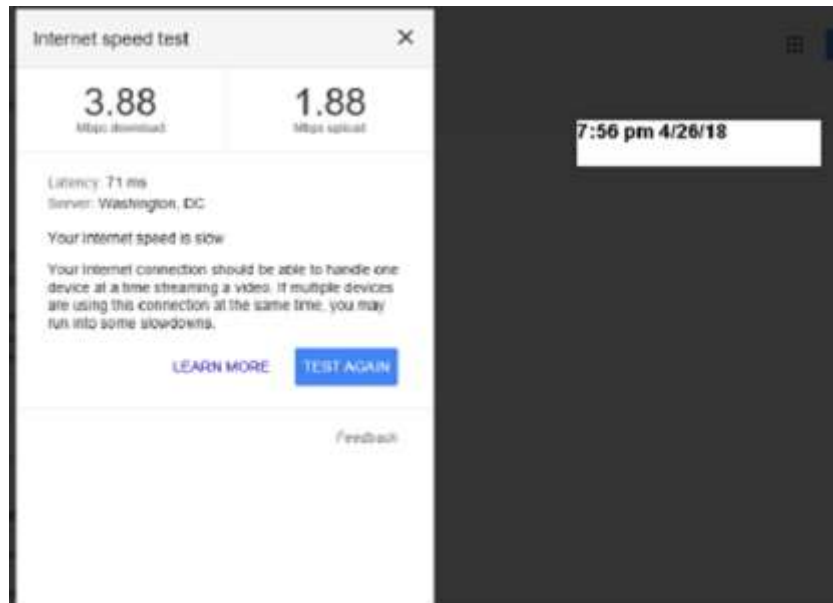


Hughesnet



Albemarle County, VA Green Creek Road Broadband Project Report Speed Test Samples (Page 2 of 6)

Hughesnet
Variation in
Speeds



Albemarle County, VA Green Creek Road Broadband Project Report Speed Test Samples (Page 3 of 6)

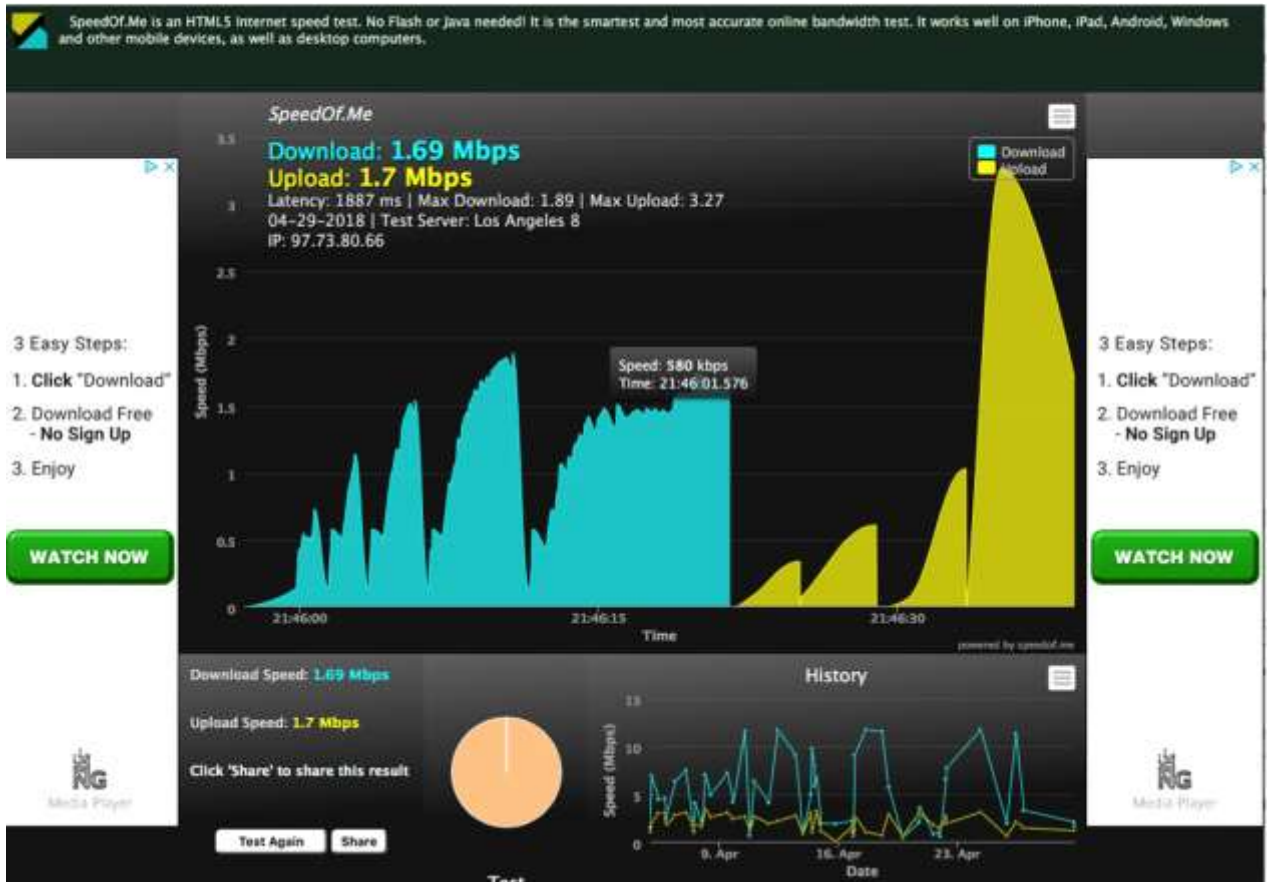
Hughesnet

I was able to run a speed test from here: <https://speedof.me>

I ran it multiple times over a 3 week time period. You can see how variable the connection speeds are. The best times are in the mornings and the worst are in the evenings. The blue line is the download speed and the yellow is the upload speed.



The last test I just ran. Sunday night 9:46pm.



Albemarle County, VA Green Creek Road Broadband Project Report Speed Test Samples (Page 4 of 6)



Start

ViaSat
(Excede)

Ping
<1 ms

Download
1.38 Mbps

Upload
123.02 Kbps



PING

591
ms

DOWNLOAD

1.4
Mbps



JITTER

6
ms

UPLOAD

1.0
Mbps

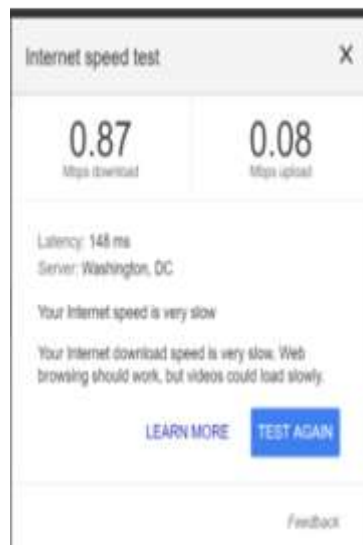


Exede
184.21.241.200



Albemarle County, VA Green Creek Road Broadband Project Report Speed Test Samples (Page 5 of 6)

CenturyLink
DSL



**Albemarle County, VA Green Creek Road Broadband Project Report
Speed Test Samples (Page 6 of 6)**

Impossible
Ping
Times

4/25 - 8:10am	13.8 down	3.7 up	Ping 686.6
8:20am	5.04 down	1.05 up	Ping 668.0
4:10pm	8.1 down	8.4 up	Ping 808.0
4/26 - 7:44am	16.4 down	3.6 up	Ping 736.0
3:15pm	16.8 down	3.5 up	Ping 1028.0
4/27 - 8:20am	17.6 down	3.3 up	Ping 626.0

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 1 of 9)

CenturyLink

Re: High-speed broadband internet in Southern Albemarle County.

To Whom It May Concern:

As I will be unable to attend the meeting at the County building on April 18, 2018 of the Albemarle Broadband Authority, I would like to express my opinion.

I would encourage CenturyLink to install high-speed broadband Internet in our area. Since our last petition many years ago, there have been several additional residences built in our area. This is a fast-growing neighborhood, and I think everyone here would like to have this service available to them.

It would be helpful not only to students who would be able to access the Internet for studies, but also to hold her citizens who are homebound and would then be able to access necessary services such as health records, social security and Medicaid and Medicare sites. At this point in time, it is very difficult to accomplish these endeavors because of the absence of high-speed Internet.

My disability prevents me from attending this meeting in person, but I need to express my strong support for the extension of high speed internet service to our area. The internet is essential for me to be able to have a job and work from my home. Because satellite internet is not always reliable I have had to install a T1 line at a cost of \$555 a month in order to be able to work. This is a terribly burdensome expense for me at 71 years old and on a limited income.

I appreciate your consideration.

I would like to express my support for the effort to bring broadband internet into Schuyler, VA. While my wife and I do not currently own a home in the area, we are looking to purchase a home along Green Creek road. One of the driving factors in not having purchased a home is the lack of broadband internet and spotty, at best, phone service.

Our daughter and son-in-law live on Green Creek Road and we attempt to visit frequently, but lack of internet in the area greatly reduces our opportunity to do so. My work requires frequent connectivity and I utilize the internet extensively in my studies for a PhD. Our ability to visit is greatly hampered by the need to meet work and school demands.

I would attend the meeting Wednesday night in support if my schedule had allowed. Please let me know if there is anything I can do to support the effort.

Thank you

I received your letter in the mail regarding internet service. I will not be available to attend the meeting unfortunately. I thank you for your efforts at trying to upgrade internet in our area. I currently have CenturyLink, but the speed is absolutely terrible.

I would like to suggest possibly mentioning the development of our area; two houses built by me and one more going to be built this year and another not far down the road. I am not certain where the other areas are that they are considering using these funds and what the development looks like in those areas, but it could help to bring this up. Just a thought.

Thank you

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 2 of 9)

Yes, you have my permission to print and to use my email. I am absolutely dissatisfied with the internet service here. It is extremely slow and I pay the same rate as others who have much faster speeds. I would pay more for the service if it was upgraded, but only if the rate was in line with other areas.

I work in Albemarle County, actually for the County, and I have to depend on internet service when at home to be able to work while at home. Sometimes tasks are impossible to complete because of the internet speeds.

I have written letters to CenturyLink, with no response. I have called and spoke with CenturyLink representatives and each time they tell me something about like "CenturyLink will be upgrading internet service in your area by this time next year". This has been their statement for the last several years.

CenturyLink

Re: High-speed broadband internet in Southern Albemarle County.

To Whom It May Concern:

We are writing to express our support in bringing the Internet to the area where I live in Albemarle County. We will not be able to attend the meeting on April 18, 2018 concerning the Albemarle Broadband Authority.

We have recently purchased a home in Schuyler and discovered after the fact that we would not be able to install access to the internet in our home. We would like encourage CenturyLink to install high-speed broadband Internet in our area. Although the area where we live is in a remote neighborhood, it has grown tremendously over the years we have been visiting this area prior to our home purchase. This is a fast-growing area with easy access to Scottsville and even Charlottesville. There are subdivision plans within just 3 miles of our home and I think everyone here would need to have this service available to them. It certainly would be another positive feature of moving to this community, including the access needed for our school aged children and their ability to move into 21st Century expectations as we grow in our collective cultural literacy.

For our citizens who are homebound or those who work from home, this is also important in maintaining a high quality of life that includes necessary services such as health records, social security and Medicaid and Medicare sites. At this point in time, it is very difficult to obtain these because of the absence of high-speed Internet.

I have had to call every few weeks just to see if the timeline has changed for these services to start. This internet service is vital to our every day life and we would like to strongly request that it be a priority for CenturyLink to serve this community as a valued resource for the homeowners living in this area.

I understand there is a petition for this service and we would like to add our names to that list.

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 3 of 9)

Our satellite internet sometimes cuts off for no apparent reason. Sometimes it will start up again if we reboot right away; sometimes we have to wait and reboot some time later before it will restart.

When we exceed our data usage for the month, the speed is reduced to dial up speed or less and is not practical even for loading web pages.

My wife is an attorney who maintains her only work office in our home. Internet is crucial for corresponding with clients, researching law, sending and downloading documents, etc. Filing fiduciary tax returns can only be submitted online now. This is our highest priority when it comes to using our data allowance. She sometimes sits outside businesses in town with free wifi just so she can keep up with her work without using our data allowance.

Paying bills, filing taxes, keeping track of medical records and insurance payments, and online banking all require the internet.

The internet is an incredible educational resource, and education is not just for kids in school. As I am now retired, I find myself continually wanting to look up information about topics of interest to me. There is an enormous amount of incredible information for an amateur astronomer, as just one example. Again, I have to ration my usage and limit what I can research, and if there is a useful and informative short video, I have to skip it.

Our six children and six grandchildren visit us often. They have to turn off their phone wifi and we turn off our wifi when they are here to be sure there is no additional usage. Three of our children need to keep up with work using the internet. One son is an attorney who must keep up with ongoing cases while he is away from home and his office. One daughter works for an internet marketing firm and often needs to be on video conference calls in addition to email. Both of these children require more internet usage than we can provide and sometimes they have not been able to stay with us because our limits on internet usage do not allow them to work.

When we are discussing something and a question comes up, we have to ask ourselves if we have enough data usage left to ask Google for information. It is frustrating how often someone says "If we could use internet we could look that up." I would love to be able to find immediate information and answers to questions.

Our six grandchildren live in different parts of Virginia and North Carolina. While many grandparents can enjoy video calls with their grandchildren using Facebook or Google Hangouts, we cannot.

Living where we do far from town, we shop online several days a week. Researching a product, different brands, different features, etc., can often take a lot of our data allowance.

Software updates that are necessary for cybersecurity can use large amounts of our monthly data allowance. One large Windows 10 update took over 3 GB, or 25% of our monthly allowance. We have to get up at 3:00 a.m. to take advantage of the free period from 3:00 to 6:00 a.m. to do our updates.

We don't even think about entertainment like streaming music, or movies from Netflix or Amazon, even though it is free with Amazon Prime. This would require more speed and bandwidth than we have.

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 4 of 9)

Internet User Information

Please answer the following. You can use the space on the back for additional comments:

1. Name and Address of Business or Home, and best phone number to reach you (not required)

Name and address with-held

2. Using the address entered, do you have internet service at your home or business?

Yes Hughesnet Satellite service

3. If no internet service, why not?

4. If you have internet service, do you know the advertised upload/download speed and if achieved would it be sufficient for your needs?

The advertised download speed is UP TO 25 Mbps. Advertised upload is UP TO 5 MBbps

5. Does your current provider limit the amount of data you can download each month without decreasing your connection speed?

Yes once we go over our cap amount 50 Gigs for 30 days, the system slows to a crawl, except that you get "Bonus" gigs if you use the system between 1am and 8am. Even when we are still under the cap, during evening prime time, the system runs extremely slowly because everyone is using it at once. I just ran a test which came back at 1.92 Mbps download. 9pm in the evening. This is typical. Video will buffer endlessly at that speed.

6. If yes, does this cause problems for you? Please explain more in the space provided on the back of this form. Yes, it causes problems. Both my wife and I work out of the house and need the internet to conduct our business. Even being extremely careful, we end up running out of Gigs prior to the end of every 30 day service period and end up having to buy more "tokens" for additional Gigs. And this is with avoiding watching any videos except during the 1am to 8am window, and even then limited to short periods of less than an hour. Open a webpage these days and a video screen is running on it somewhere. With Hughesnet, you have to find that feed and shut it down ASAP or it will drain your data allotment. I can no longer watch a Youtube video on how to replace the carburetor on my lawn mower, let alone some news story or entertainment unless I do it at some odd hour. Forget about watching a TV episode you missed by going to the on-line site that features re-plays.

7. If you have internet service, which provider have you selected and are you happy with the service?

No, we are not happy with our service. If I can think of one word to describe their service: awful! We are not their customers, we are their hostages. Clearly they have overbooked their satellite, or if they haven't, it certainly runs that way. I would happily pay their termination fee (another nice feature of Hughesnet) if we had another option. Their online information about their service, is carefully worded, and while technically not outright lies – is otherwise most definitely misleading and not truthful. The business model seems to be to provide inadequate service and use that as a lever to wring more money out of the customers. Hughesnet claims to have fast speeds and no caps on data. Again, while technically not false, the reality is that you get moderately fast speed inconsistently (mostly at off peak hours) usually not when you want it or need it. Their statement of having no cap on data is like having all the beer you can drink as long as you can only drink it thru a straw half the diameter of a cocktail straw. Their claims are disingenuous at best. Aside from the annoyance of

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 5 of 9)

having slow speeds when you want it most, the big issue is the cap. We pay extra to have a 50 gig cap. We easily could run that out in 5 to 10 days and be stuck for the rest of the month. I refuse to pay more to raise the cap to 70 gigs. I am suspicious that raising the cap will make little to no difference aside from the fact a paying that amount per month for poor speeds when you really want them is rewarding the bad behavior of Hughesnet and terrible value for the customer.

8. Have you attempted to use any other internet service, and if so, what were the results?

We moved here from Pennsylvania in the last year. We used to have Verizon Fios. That is what the internet should be. Hughesnet's business model is predicated on the premise that its customers have no other option, except its satellite competitors who are equally poor or worse. Overall we paid more for Fios, but it was bundled with phone and Cable TV, so it is not an apples to apples comparison. If we added the cost of Satellite TV and the cost of a landline to our Hughesnet service, we would be paying more than we were paying for Fios. Value-wise Fios is 100 times better than Hughesnet.

IMHO, in today's world broadband service is a necessary utility, not the cash cow of a profit seeking entity. They should be regulated in order to: A) be truthful about the realities of their service and B) should not have data caps for normal reasonable residential use, but only for high data users. If inconsistent download speeds are the result of technical limitations of satellite service, I can live with that. If they are the result of maximizing profits for the company, then that type of behavior needs to be regulated due to the importance of internet service to the overall efficiency of economic commerce as a whole.

Please add my name to your list of people in the neighborhood who would be interested in DSL or other high speed options. I currently have Exede service through Nelson Cable, which I would characterize as "ok". My new data package is 150 GBs per month for \$129.99. When we first got Exede they were advertising speeds of 20mbps, but as time has gone on that has dwindled. During peak hours our speed is frequently under 1mbps, and at best it's probably around 5. I can sometimes stream, although quality is not ideal.

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 6 of 9)

2. Using the address entered, do you have internet service at your home or business?

Yes, I have HugesNet

3. If no internet service, why not?

4. If you have internet service, do you know the advertised upload/download speed and if achieved would it be sufficient for your needs?

They advertise download speeds of up to 25Mbps and 3Mbps upload speeds and if I actually had that every time I use the computer it would be ok.

5. Does your current provider limit the amount of data you can download each month without decreasing your connection speed?

I pay for a 20GB plan. If I go over that then they reduce my connection speeds to 1-3Mbps.

6. If yes, does this cause problems for you? Please explain more in the space provided on the back of this form.

Currently 20GB of data a month is enough for me. If I had connection speeds that allowed me to stream movies then I might use more data.

7. If you have internet service, which provider have you selected and are you happy with the service?

I currently have HughesNet. Connection speeds during the daytime are ok (not great) but in the evenings and on weekends it gets very slow. I'm not happy with the speed. Right now I'm not working and can do my online banking during the mornings but it's very difficult to pay bills and take care of other online activities in the evening.

8. Have you attempted to use any other internet service, and if so, what were the results?

No. There are no other options except for satellite Internet service here. Because of the trees here it would be impossible to switch to another provider unless their satellite is also higher overhead. Most satellites are lower and the satellite dish would end up pointing into the trees and not getting a signal.

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 7 of 9)

1. VIASAT (formerly WildBlue)
2. Liberty 25 - Boost 25 + Free Zone [Plan details](#)

25 GB/month data

Speeds up to 25 Mbps

3 AM - 6 AM Free Zone

VIASAT is better than Hughesnet, which I've also used previously. Satellite internet is the best we can get, but is not sufficient for normal home use and would be a disaster if you needed it for work purposes. It is sub-par and very expensive. Currently in my area I can choose 12Mbps/12GB per month for \$50, 12 Mbps/25GB per month for \$75, or 12Mbps/50GB per month for \$100. None of these will run a movie except between 3 and 6a.m.

3. 12 years ago I had dialup on my cell phone when we had the EMBARQ tower. I could use email, and could surf the internet, but could not download or run video. I no longer have enough signal in my home to run a hotspot from my cell phone.

I was only home for the speed tests that I could complete. On the prior evening I did not have functional service that would even allow email or any web connections so no tests were performed. Note that I am paying for two DSL lines that are load balanced through a router so I can't identify which line was used for the testing.

I do receive a disconnect and reconnect for one of my DSL lines (eth0 on router) at least 5 times a day from the controller.

You recommended using Century Links speed test which failed to complete 80% of the time and also reported downloads at twice the speed of a generic speed test.

Latency is always the issue with the DSL service which is compounded by weather and also reported animals in splice boxes (reports by Century Link technicians who have come out for repairs).

If they install fiber I am willing to pay more for quality service, not sure how a total copper solution would help.

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 8 of 9)

Thank you for gathering all this information and fighting for better internet service! We have Centurylink for our phone provider. We have not had many issues. Sometimes the phone will ring during a lightening storm or we hear crackles when the weather is bad but other than that we haven't had any problems. HughesNet makes it difficult to figure out how much data you use over a period of time. It seems in the last 10 days we have used 2.5 GB. This is mostly because we do not stream videos, music, or download anything since you must pay for data. Very frustrating. There are times that I could work from home but am unable to because of poor speeds and my data plan (20 GB/month, which we still end up going over).

We do not have Internet of any kind. We rely on a hotspot from our Verizon cell phone. The hotspot is EXTREMELY unreliable.

3. If no internet service, why not?

There is no real service in our area. Verizon rarely has one bar of LTE service that I can access for about 30 minutes tops to send out emails.

4. If you have internet service, do you know the advertised upload/download speed and if achieved would it be sufficient for your needs?

NA

5. Does your current provider limit the amount of data you can download each month without decreasing your connection speed?

6. If yes, does this cause problems for you? Please explain more in the space provided on the back of this form.

7. If you have internet service, which provider have you selected and are you happy with the service?

8. Have you attempted to use any other internet service, and if so, what were the results?

We tried to use DISH; but, our house was out of area for them.

Sorry if our answers were not helpful. Thank you so much for trying to help with better phone and Internet service in our area. My husband and I are very grateful.

Albemarle County, VA Green Creek Road Broadband Project Report Comments Samples (Page 9 of 9)

My wife forwarded your questionnaire to me and I have attached a PDF with our answers. The digital divide that exists in Schuyler is not lack of access, but lack of affordability. Just about anyone can use satellite services here, but these providers are expensive. The typical resident in southern Albemarle County cannot afford \$150/month for internet service. If an affordable alternative was available that did not have data caps the area would be better served.

The only way I have been able to do business, as I need to be compliant with HIPAA regulations, is to pay for a T1 line, which started out costing me about \$480 a month. It has now gone up to \$555 a month, which is quite a strain on me as I am senior citizen and not able to do a lot of work.

While the T1 line is pretty reliable, I have had problems with it. After the 1st few years of having no problems, I noticed that every time I had a thunderstorm, the circuit board would fry. After repair services came out many times, they provided me with circuit boards as backups to replace, but I now have to remove the circuit board by hand every time there is a thunderstorm or a threat of a thunderstorm if we are leaving the house. As a result of that continual manipulation of this board, last year repairs services had to rewire the box that the board goes into. I am always afraid that I will touch the wrong part of the board and injure myself with the electricity. This has been a bit nerve-racking.

I am truly hoping that CenturyLink will seriously consider putting DSL in our area as there are many customers here and there have been new homes built in the area. I expect that there will be many more as there is a lot of vacant land here.

When I ran the test today, the speed test came back as 1.5 up and 1.5 down; however, that being said, there are times that my modem indicates that it is only running at 0.1 up and 0.1 down. I did have this checked by CenturyLink repair services, and they suggested that there may be a local block on my line for some reason, but they did not go further other than to offer me a possible phone number to call to check this, which I have not done as yet.

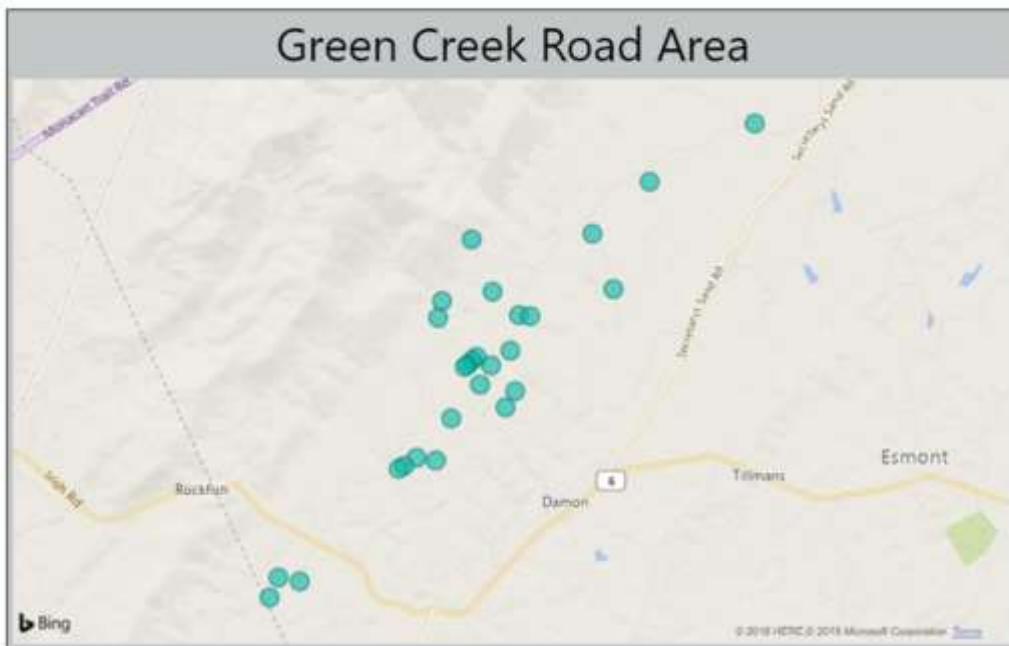
The volume of my business has decreased with technology. The prohibitive cost of the T1 line is probably going to force me to close my business at the end of this year, according to my accountant.

I really appreciate everything you are doing to try to help us in this matter.

Albemarle County, VA Green Creek Road Broadband Project Report Project Area Maps (Page 1 of 4)

Albemarle County Broadband Project

A visualization in the area of Green Creek Road representing the need and want of faster internet.



All of the dots above (29)
represent L.U.'s where residents
have contacted us interested in
better broadband

**Albemarle County, VA Green Creek Road Broadband Project Report
Project Area Maps (Page 2 of 4)**



**Representative Section Requesting
Improved Broadband (Green Creek
Road - Rt. 630)**

**Albemarle County, VA Green Creek Road Broadband Project Report
Project Area Maps (Page 3 of 4)**

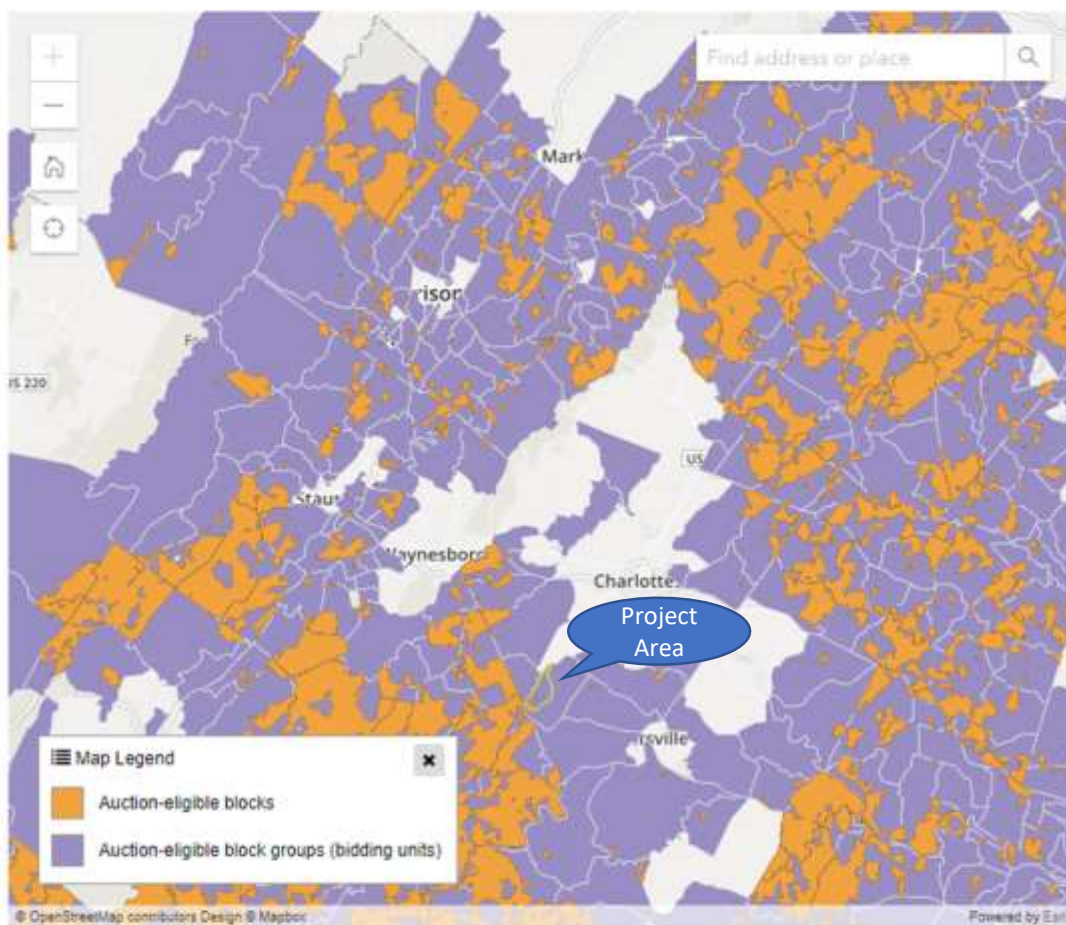
**Area in Expanded View -
Bungletown South to Schuyler**



Albemarle County, VA Green Creek Road Broadband Project Report Project Area Maps (Page 4 of 4)

Secure | <https://www.fcc.gov/maps/caf2-auction-final-areas/>

Connect America Phase II Auction: Final Eligible Areas



Orange areas: census blocks eligible for CAF Phase II support through [Auction 903](#)

Purple areas: census block groups that contain eligible census blocks. Eligible census blocks are grouped into census block groups for bidding in [Auction 903](#) (for more information, see the [Auction 903 Procedures Public Notice](#)). Clicking on a census block group will reveal the total number of locations and the total annual reserve price rounded to the nearest dollar.

The Auction: The Connect America Fund Phase II Auction (Auction 903) will use competitive bidding to award up to \$1.98 billion of universal service support over 10 years to areas currently unserved by broadband. For