

Application to DHCD Submitted through CAMS

Gloucester County

Gloucester County Broadband Project - Fixed Wireless

Application ID: 64508292019114208
Application Status: Pending
Program Name: Virginia Telecommunications Initiative 2020
Organization Name: Gloucester County
Organization Address: P.O. Box 329 / 6467 Main Street/
Gloucester, VA 23061
Profile Manager Name:
Profile Manager Phone:
Profile Manager Email:

Project Name: Gloucester County Broadband Project - Fixed Wireless
Project Contact Name: Carol Steele
Project Contact Phone: (804) 693-4042
Project Contact Email: csteele@gloucesterva.info
Project Location: P.O. Box 329
Gloucester, VA 23061-0329
Project Service Area: Gloucester County

Total Requested Amount: \$1,082,217.00
Required Annual Audit Status: No Current Audits Found

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$1,082,217.00	\$1,005,141.00	\$2,087,358.00
Construction	\$1,082,217.00	\$957,141.00	\$2,039,358.00
Construction Related Soft Costs	\$0.00	\$0.00	\$0.00
Other: Project Management	\$0.00	\$48,000.00	\$48,000.00
Total:	\$1,082,217.00	\$1,005,141.00	\$2,087,358.00

Budget Narrative:

Construction costs above include purchases of equipment. Construction soft cost, design work, is included as part of Project Management. The majority of the design work has already occurred and was paid for by Gloucester County.

Questions and Responses:

1. Project Area

Explain why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 –Project Area Map.

Answer:

Gloucester County submitted both a wired and a wireless application. The combination of the two proposals will reduce the number of "unserved" residents in the County by 65%.

Fixed wireless technology provided benefits and challenges to determining the project area. The signals can reach homes that are far removed from major thoroughfares and denser populations where wired service is prevalent. The advantage of the stretch that wireless service provides was countered with the task of restricting the signals to locations that fell within the definition of "unserved" according to VATI. Project boundaries were altered several times and a proposed tower eliminated to ensure the project area boundaries were in line with the requirement to not include served areas.

The map in Attachment 1 shows the location of 23 zones and the corresponding propagation range for the signals which define the project area. Attachment 16 lists the structures within each zone and the percentage of existing coverage. The zones include ranges from 92% unserved to 100% unserved structures. The project excludes the southern and southeastern portions of the County which are served in higher saturation rates by Cox Communications.

If funded, the grant will provide 1,708 homes and businesses with broadband service and significantly change the County's rate of broadband coverage. Subscribers will have options for different levels of service, all starting with the minimum 25/3 Mbps grant requirement. The project area will impact farmers, a new National Park, a large

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resort campground, students, businesses and residents that have been disadvantaged because of the lack of service. The northern part of the County will benefit greatly from the new infrastructure providing a much needed positive economic impact. Other locations may see increased home sales due to the addition of service.

The majority of workers in Gloucester County commute to Newport News, Williamsburg, Hampton and other Hampton Roads locations. While many commuters live in the Hayes and Gloucester Point regions of the County, others live in the project area. Additionally, the project includes workers who travel to Richmond and other north and westward locations. The percent of commuters from the list of addresses to be served is not known, but numerous complaints have been received by individuals that are allowed to telecommute and cannot because of the lack of broadband services.

The project area requires 360 degree coverage on two of the towers. This provides an added benefit in reaching homes in Mathews and Middlesex counties. The grant application doesn't include those homes, but the residents will be able to subscribe to service. Officials from both counties have confirmed that the areas within their localities do not have service and are not part of a VATI grant (see Attachment 8 Letters of Support). Both counties are appreciative of the impact that this project will have.

2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a detailed explanation of how this information was compiled and the source(s). Provide a map and list of all existing providers (fixed and wireless) and speeds offered within the project area. Label Map: Attachment 2 – Existing Provider Map; label documentation: Attachment 3 – Documentation on CAF Funding Area.

Answer:

Gloucester County has very limited choice for broadband. Cox Communications is the only provider of broadband services that meets the required speed. Other services including the use of cell phones, DSL and satellite do not meet the minimum criteria for the VATI grant. Neighboring communities share Zip Codes with Gloucester County, but not the same broadband services. Limited fixed wireless is available in some areas of the County, but again the minimum of 25/3 unlimited access requirement is not met.

Attachment 2 shows the research conducted to locate all providers and includes service maps. In addition, a broad scale map of where Cox has service in Gloucester County is included with the attachment.

Documentation on CAF Funding Area is shown on Attachment 3. At this time, the program does not impact Gloucester County.

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 percent service overlap within the project area. Describe any anticipated service overlap with current providers within the project area. Provide specific information as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

Answer:

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As demonstrated in Attachment 2 and noted previously, Cox is the only provider of broadband in the County. Other companies such as Verizon Wireless and HughesNet can provide speeds that are both below and above the 10/1 speed definition for unserved areas. Their speeds are not consistent though and are subject to throttling back.

Cell service is a poor substitute for broadband but the only source many residents have. We are not aware of any providers that offer more than 10/1 Mbps other than satellite. The only other existing providers are cell phone carriers. Please see documentation on Attachment 2 for additional information.

The County started the identification of the existing Cox service by using a map that Cox Communications provided showing the general locations of areas, excluding shorelines, that were unserved.

Cox Communications offers a self-service address check on their website. Using the Cox map as a starting point, addresses from the County GIS map were run through the address check to create a list of unserved addresses. Hours and hours were spent on this process to locate all of the unserved structures. Knowing that some addresses could have possibly been missed or inadvertently included, the public was asked to help validate the County's list.

Announcements were made in Board meetings, in the newspaper and through social media (see Attachment 17) asking the public to review the list online and/or at either public library. Displays were erected at the libraries that included a map and the address list with a response collection box if someone's address had been left off of the map. A few addresses were added as a result of the activity and just as important, the community became more engaged in the broadband project. The number of calls and emails increased as people wanted to complain about the lack of service, ask for help, find out when they were going to get broadband, etc.

The modified address list was included in the Request for Proposal for design services to create a network plan for the County. DesignNine, Inc. was awarded the contract and worked closely with the County to produce propagation maps and determine percentage of addresses served. Using the GIS map and the unserved address list, DesignNine was able to create a fixed wireless plan that meets the VATI guidelines. When Open Broadband, LLC was selected as a partner for providing fixed wireless services for the project, the two companies coordinated on the network design.

4. Provide the number of residential serviceable units in the project area(s). Describe the eligible premises that will be served by the proposed project and the basis for these projections.

Answer:

As described earlier, the project started with determining the addresses of all unserved residents in the County. A review was made of all locations and a plan created to reach as many as possible that met the VATI requirements. The process took several months and a large amount of staff time but provided the County with vital information.

Out of the 1,708 identified addresses, 1,577 are residences. This is the majority of the unserved population throughout the entire County. The area includes waterfront homes, a trailer park and new developments as well as long established homes. Much of the area is zoned for large acre tracts and includes the most rural part of the County. Other, more populated sections, such as the homes off of Indian Road, were constructed in the late 1980's and early 90's without consideration for broadband.

In addition to the houses in Gloucester, approximately 1,000 additional homes in Middlesex County and 500 in Mathews County will be able to subscribe to broadband. Homes are located along the river, where the signal will

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reach them.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area. Also indicate the number of home-based businesses. Provide specific information.

Answer:

By crosschecking the identified addresses with the County Business License list, it was determined that 125 home-based businesses and six commercial businesses will be impacted. This includes six farms and the Thousand Trails RV Campground which has 359 campsites and cabins. The campground is a very popular attraction and eager to be able to provide their guests with broadband. Short-term vacation rentals are not required to register in the County, but numerous locations in Gloucester are listed on websites. Waterfront locations are common and popular types of rental facilities. The unserved in Gloucester are limited in sales potential by not having access to broadband.

Another one of the commercial businesses is The Inn at Warner Hall is a beautiful and popular country inn that dates back to Colonial times. They are included in the project and want to improve services for their guests.

Werowocomoco is a sacred Native American historic site in Gloucester that was purchased by the federal government to be opened as a National Park. Master planning is underway for what will become a national and international attraction. Visitors that come in droves to Jamestown will have the ability to visit the site where the Indians lived and where Pocahontas, Powhatan and John Smith interacted. Though isolated and unserved, the site address is not included on the project at this time because of the approval needed by the federal government to place any equipment on the site. They will no doubt become a part of the initiative, even if not served in the first 12 months.

6. Understanding that projected take rates are an estimate, provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also detail all actions (e.g. marketing activities, outreach plan) to be implemented to reach the identified potential serviceable units within the project area.

Answer:

Gloucester County conducted a direct mail survey to all of the homes who do not have access to broadband. The survey's 46% response rate is a very high rate for a mail survey and indicative of the interest in broadband services. 88% responded that they want broadband with another 4% answering that they were not sure. With reasonable rates, that are acceptable to the undecided, that could mean as high as a 92% take rate!

The questionnaire also asked about people's willingness to pay for broadband at varying thresholds. 30% stated they were willing to pay as much as \$80 per month for service. Another 26% said they will pay up to \$60 per month. 21% stated they will pay up to \$40 per month. For the Fixed Wireless Project with rates of \$39.99 a month for 25/3, 77% indicated they could afford the fee. Another 11% was unsure. Only 4% stated they could not afford to pay for the services. Please see Attachment 18 for additional information on the survey.

Gloucester County is in the process of hiring a new Public Information Manager and Coordinator for Community Engagement and Public Information. Both of these staff as well as the Assistant County Administrator will be involved with providing the public with information about the project which will help increase awareness and potentially increase the take rate. The County will utilize it's website and both print and social media for

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announcements.

Considering all of these factors and the increasing need and demand for broadband connectivity, a take rate of 75% or greater can be predicted.

7. 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:

Gloucester County will be utilizing an existing tower (landfill tower) and constructing three new towers. One tower will be erected on the Harcum Fire Station's property (Dutton). A second tower will be constructed on the grounds of Petsworth Elementary School. The County will acquire land for the final tower (Ware Neck). The towers will remain in the County's ownership and with the Board of Supervisors' approval, Open Broadband, LLC will be provided use of the towers at no charge for three years. Open Broadband, LLC will own all of the equipment required to provide service.

8. Provide the proposed download and upload speeds for the project area. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. 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:

Open Broadband, LLC offers internet service speeds starting at 25 Mbps and going up to 1000 Mbps. Since most users will be non-line-of-sight, the 25 Mbps x 3 Mbps will be the most common service offered. With clear line-of-sight Open Broadband, LLC can deliver symmetrical speeds up to 300 Mbps within 5 miles of an antenna and symmetrical gigabit (1000 Mbps) service for clear line-of-sight customers within 2500 ft. of an antenna. Where possible they will offer service in symmetrical model.

The provider's fixed-wireless service leverages a variety of spectrums, depending on the area being covered. These options include licensed LTE/CBRS 3.5 GHz, non-licensed bands of 2.4GHz, potentially the use of licensed 2.5 GHz LTE, 5GHz, 24GHz, and 60-70 GHz, and licensed bands at 11GHz, and 80 GHz. The wireless design consists of placing antennas on tall structures/towers and beaming signals to another antenna at a customer location. For close-in line-of-sight customers they can deliver 1000 Mbps speed using 60-80 GHz. For line-of-sight customers farther from the tower, they can deliver symmetrical speeds up to 100 Mbps using the 5GHz frequency.

Fixed-wireless technology is impacted by vegetation and line-of-sight factors. In areas with heavy vegetation the lower frequencies (2.4 GHz, or LTE/CBRS at 3.5 GHz or 2.5 GHz) will be used, and as a result, target 25 Mbps down by 3 Mbps up in those areas. Much of the unserved and underserved areas fall into this category.

Residential service is all month-to-month and no contract is required. Businesses/government/education users may be asked to enter a contract as additional support and installation requirements often result in a minimum time period to recoup costs.

Monthly service rates for residential, small offices and businesses are below:

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- Residential – 25Mbps down/3Mbps up \$39.99 + \$99 installation
- Residential – 25Mbps down/25Mbps up \$49.99 + \$99 installation
- Residential – 50Mbps down/50Mbps up \$59.99 + \$99 installation
- Residential – 100Mbps down/100Mbps up \$99.99 + \$99 installation
- Residential – 200Mbps down/200Mbps up \$139.99 + \$99 installation
- Residential – 1000Mbps down/1000Mbps up Quoted Individually
- Residential – This service is month-to-month with no overage fees

- Business and Government – 25Mbps down/25Mbps up \$80 + \$150 installation
- Business and Government – 50Mbps down/50Mbps up \$120 + \$150 installation
- Business and Government – 100Mbps down/100Mbps up \$150 + \$150 installation
- Business and Government – 200Mbps down/200Mbps up \$225 + \$150 installation
- Business and Government – 1000Mbps down/1000Mbps up \$575 + \$150 installation
- Business and Government rates are based on a 3-year agreement that includes a service level agreement.

9. 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. Label Map: Attachment 5 – Propagation Map Wireless Project

Answer:

Open Broadband, LLC uses a hybrid technology of fiber and fixed-wireless. It consists of the following components:

- Data Center with multi-carrier BGP routed internet upstream connections.
- Leased point-to-point fiber circuit(s) from the data center to tower sites in Gloucester County. Fiber circuits will be ordered from one of the available carriers: Spectrum, Segra, Mid-Atlantic, etc. Fiber backhaul to the data center allows for growth.
- Fixed Wireless antennas operating in various frequencies, including 24 GHz and 11GHz for backhaul and 5 GHz and below for customer connections. This includes the licensed 3.5-3.7GHz spectrum used by LTE and the upcoming release of the CBRS spectrum, and selected use of 2.4GHz where applicable. It is this service that allows for Non-Line-of-Site (NLoS) service through trees. Very few companies offer or are even familiar with LTE, and for a project like this, it will be required. Symmetrical speeds can be provided on 5 GHz and above radios, and Open Broadband, LLC has the majority of clients using service at 25 Mbps, 50 Mbps, and 100 Mbps speeds. To a lesser degree there will be customers

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using this service for symmetrical 200 Mbps, 300 Mbps, and 1000 Mbps. In non-line-of-sight applications they use 3.65 GHz and/or 2.4 GHz spectrum, which operates most efficiently today at 25 Mbps x 3 Mbps. Open Broadband, LLC purchases these radios “off-the-shelf” from the manufacturers. As radio technology continues to improve they will upgrade the fixed-wireless radios to faster speeds. It is hopeful that the radio manufacturers will develop symmetric 100 Mbps service in the 3.65 GHz (CBRS) spectrum in the future.

Open Broadband, LLC primarily uses a fixed-wireless last-mile, and fiber to the tower network design as it is the most cost effective, quickest to install technology that results in the fastest speeds and lowest cost to consumers. Wireless alone can have limitations on bandwidth and network expansion. A hybrid approach takes the best of each technology, using fiber for high bandwidth to the data center, while using last mile fixed-wireless to quickly turn up just those users who subscribe to the service.

The network is designed with the following specifications:

- Data Center: SSAE 16 compliant, PCI DSS compliant, and HIPAA compliant. The data center is staffed 24x7x365 and has a 99.999% network uptime guarantee.
- Fiber circuits are on carrier backbones with a 99.999% network uptime guarantee.
- Fixed-wireless antennas are rated for 99.99% uptime.
- Fixed-wireless circuits are designed to withstand typical weather patterns including heavy rain, winds, and snow.
- 11GHz fixed-wireless backhaul circuits are licensed links to avoid interference. Consumer connections in the 3.5 – 3.7 GHz and 2.4GHz spectrum are designed to work through, or around obstructions such as heavy foliage.
- Open Broadband, LLC’s dedicated fixed-wireless connections are 128-bit encrypted.

10. Project Readiness

What is the current state of project development (e.g. planning, preliminary engineering, identifying easements/permits, final design, etc.)? Prepare a detailed project timeline or construction schedule which identifies specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Provide any Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) (drafts are allowable), letters of support, etc. The timeline should include all activities being completed within 12 months of contract execution with DHCD. Label Attachments: Attachment 6 – Timeline/Project Management Plan; Attachment 7 – Relationship between Applicant/Co-Applicant; Attachment 8 – Letters of Support;

- 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, co-applicant, and any additional partners.
- iii. If applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

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Answer:

The County conducted a Request for Proposal process to find an Internet Service Provider to partner with. Open Broadband, LLC was selected as a partner because of their experience with similar projects. They provide fixed wireless service to government, business and residential users. It was also beneficial when considering planning, maintenance, communications, etc. that they would potentially be working with communities to the north and south of Gloucester.

Gloucester County and Open Broadband, LLC are prepared to begin the project and will conduct preliminary steps beginning no later than November 2019. The plan (Attachment 6) demonstrates a commitment to reach the 2020 completion date with a steady and phased-in process to include establishing tower leases, securing the necessary permits and equipment and continuing through construction, marketing and customer installations.

Attachment 7 demonstrates the partnership between Gloucester County and Open Broadband, LLC through the RFP process and open purchase order. The County has formally endorsed the project by providing substantial in-kind and cash matches.

11. 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 percent of total project cost). The Funding Sources Table must be completed. Label Attachments: Attachment 9 - Documentation of Match Funding; Attachment 10 – Funding Sources Table;
 - i. For each element of matching funds in the description, indicate the type of match (e.g. 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:

Attachments 9 and 10 show the level of commitment that Gloucester County is making to the project. The fixed wireless approach is cost effective and will provide service to the majority of the unserved. Therefore, the County has committed to providing 25% of the budget. Gloucester County will provide both in-kind and cash match. The County's in-kind match includes provision of vertical assets, both existing and new, as well as assisting with a project to establish broadband at three public locations. Members of the public who do not have access will have three additional public locations. It is anticipated these will be at public parks, but the final locations will be determined during the project. The County is also dedicating staff time that will allow both projects to proceed within the twelve-month period.

Open Broadband, LLC will invest 23% into the project. They will also partner with the County in providing the free public WiFi locations along with their construction and management assistance.

12. 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,

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rights of way, easements, and other issues that may hinder or delay timely construction and increase cost. Provide detail if this project includes additional partners such as municipal providers, middle-mile providers, or investor-owned utilities

Answer:

The County of Gloucester conducted a Request for Proposal process to find an Internet Service Provider to partner with. Open Broadband, LLC was selected as a partner because of their experience with similar projects. They provide fixed wireless service to government, business and residential users. It was also beneficial when considering planning, maintenance, communications, etc. that they would potentially be working with communities to the north and south of Gloucester.

In planning for the grant an excellent working relationship has been established with Open Broadband, LLC and the County looks forward to years of a successful partnership with the company. The County brings vertical assets to the partnership and funds to help the overall project. The Assistant County Administrator has been assigned to the project and will continue to work closely with their staff throughout the final planning, marketing and construction. Additional county staff will assist with financial management and public information. The County will take a primary role in obtaining an additional site for a tower in the Ware Neck area. The towers will remain the property of Gloucester County.

Open Broadband will manage project design, construction and service provision to customers. Gloucester County will serve as the fiscal agent, contract administrator, and provide project oversight to ensure strict compliance with local ordinances and grant requirements, as well as ensure project completion by end of calendar year 2020.

Open Broadband, LLC has pledged 23% of the project cost, exceeding the grant requirement on their own. In addition, Gloucester County will provide 25% towards the project, equaling to 48% of the budget.

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

Answer:

Role	Name	Title	Responsibilities
Gloucester County Fiscal Agent	Andrea Cooper	Accounting & Budget Manger	Provide fiduciary oversight, financial management, administrative services to ensure fiscal compliance requirements, accurate and timely payment of e:
Gloucester County VATI Grant Project Manager & Cox Liaison	Carol Steele	Assistant County Administrator	Provide direct oversight and review to ensure grant and timely completion by Cox Communication construction and services by the grant deadline. Responsible for completion of project update report Commonwealth. Also serve as primary county liai Communications. Report progress to County Admi Board of Supervisors.
Open Broadband, LLC	Alan Fitzpatrick	Chief Executive Officer	Overseeing entire Open Broadband side of the proje

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Open Broadband, LLC	Alan Fitzpatrick	Chief Executive Officer	Overseeing entire Open Broadband side of the project
Open Broadband, LLC	Kent Winrich	Chief Technology Officer	Technical lead for Open Broadband
Open Broadband, LLC	Rob Cranwell	Director – Network	Project Manager, working with the Gloucester Administration to implement broadband services in the project area

14. 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. Label Attachment: Attachment 11 – Derivation of Costs; Attachment 12 - Documentation of Supporting Costs; Attachment 13 – Supporting Documentation of Cost Estimates.

Answer:

The attached documents detail equipment and vendor prices. Price estimates and equipment requirements were provided by Open Broadband, LLC. Tower expenses were provided by DesignNine.

15. 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. Please provide the following three pieces of information:
- Total State funding requested / Total Project cost
 - Number of serviceable units
 - Highest residential speed available

Answer:

- The State share of the project is 52% (\$1,082,217)
- The cost per unit is \$637 (1,708 units)
- The Internet speed will be as high as 1000 Mbps down/1000 Mbps up

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

Answer:

Gloucester County staff have extensive experience with managing grants including a VATI grant. Attachment 19 provides examples of some of the grants that Gloucester has been awarded and managed.

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Open Broadband, LLC was selected for grants in Caswell and Vance County North Carolina and an ARC broadband grant for Alexander County, North Carolina. They also have been involved in a number of other broadband projects in North Carolina and are now expanding their business to Virginia. Open Broadband provides residential and business internet from 25 Mbps to 1000 Mbps, and public Wi-Fi Zones for towns, universities, and parks. They provide service to various municipal entities.

17. Commonwealth Priorities

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. Please describe if the project fits into a larger locality or regional universal broadband plan.

Answer:

Gloucester County is very pleased that the equipment required to meet our citizens' needs will also benefit our neighboring communities. The Assistant County Administrator has met with representatives of both Middlesex County and Mathews County and communicated regularly with them about the project. Both counties have provided letters of support. It is hoped that the approximately 1,500 homes that will be able to access service through the Gloucester project will be the start of additional linkages between fixed wireless services throughout the Middle Peninsula.

18. Additional Information

Any other equitable factor that the applicant desires to include. Applicants are limited to four additional attachments. Label Additional Attachments as:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 – Copy of Public Notice
- c. Attachment 16 – XXXXXXXX
- d. Attachment 17 – XXXXXXXX
- e. Attachment 18 – XXXXXXXX
- f. Attachment 19 – XXXXXXXX

Answer:

- a. Attachment 14 - Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 - Copy of Public Notice
- c. Attachment 16 - Address Lists and Zones

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- d. Attachment 17 - Address Research Publicity
- e. Attachment 18 - Survey Summary
- f. Attachment 19 - Grant History Examples

Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap93201991237.pdf

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

Attachment2ExistingProviderMap93201971157.pdf

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

Attachment3DocumentationonCAFFundingArea93201971225.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment4DocumentationUnservedAreaVATICriteria93201940234.pdf

Propagation Map if Wireless Project

Attachment5PropagationMapWirelessProject93201923653.pdf

Project Management Plan

Attachment6TimelineProjectManagmentPlan93201935108.xlsx

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

Attachment7RelationshipbetweenApplicantandCoApplicant93201921811.pdf

Letters of Support

Attachment8LetterofSupport93201990108.pdf

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

Attachment9DocumentationofMatchFunding93201934552.xlsx

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Funding Sources Table

Attachment10FundingSourcesTable93201934613.pdf

Derivation of Cost (Project Budget)

Attachment11DerivationofCostsProjectBudget93201934620.xlsx

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

Attachment12DocumentationSupportingProjectCosts93201993226.pdf

Supporting documentation for costs estimates

Attachment13SupportingDocumentationofCostEstimates93201934642.xlsx

Two most recent Form 477 submitted to FCC

Attachment14OpenBroadbandForm477FCC93201935211.pdf

Copy of Public Notice

Attachment15CopyofPublicNotice93201971248.pdf

Optional

Attachmen16AddressListsandZones93201922716.xlsx

Optional

Attachment17AddressResearchPublicity93201924115.pdf

Optional

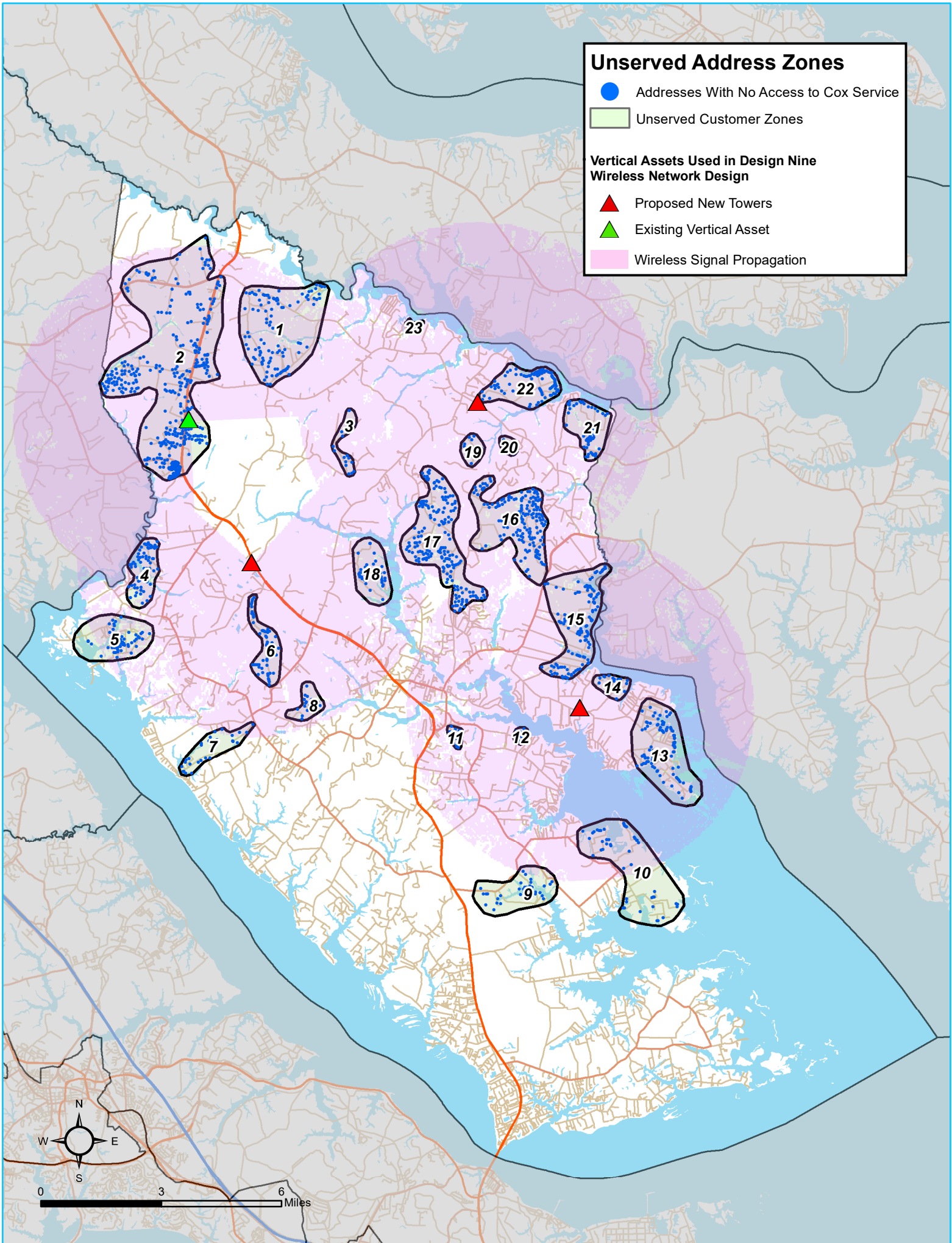
Attachment18SurveySummary93201924158.pdf

Optional

Attachment19GrantHistoryExamples93201971335.pdf

Unserviced Address Zones

- Addresses With No Access to Cox Service
 - Unserviced Customer Zones
- Vertical Assets Used in Design Nine Wireless Network Design**
- ▲ Proposed New Towers
 - ▲ Existing Vertical Asset
 - Wireless Signal Propagation



Internet Providers in Gloucester County

Information below is for the three impacted Zip Codes for both Gloucester County VATI applications.

The Fixed Wireless Project will impact homes in the 23061, 23149 and the 23072.





The application for wired service will impact the 23061 and 23072 zip codes.

<https://broadbandnow.com> was used to verify what is well known throughout the community – Cox Communications is the only broadband provide in Gloucester County.



23061 Gloucester Zip Code

As shown below the only provider that meets the VATI standard for minimal service is Cox.

RESIDENTIAL INTERNET PROVIDERS IN GLOUCESTER

 Zip Coverage: 95.5% Fastest Speed: 300 Mbps	✓ VERIFIED DATA FIBER BACKED CABLE <ul style="list-style-type: none">Speed tests for Cox are superior to the average by 3.48% locally.Cox is an option for 95.45% of Gloucester.Cox provides high-speed cable packages in the area. View Plans	(855) 802-7767 Check Availability »
 Coverage Reported: <input checked="" type="checkbox"/> Fastest Speed: 15 Mbps	✓ VERIFIED DATA FIBER <ul style="list-style-type: none">Plans start at \$49.95/month.Speeds start at 15 Mbps. Call for speeds in your area.Unlimited internet service. Does not require bundled TV or phone service. View Plans	(855) 703-6081 Check Availability »
 Zip Coverage: 97.0% Fastest Speed: 15 Mbps	✓ VERIFIED DATA FIBER BACKED DSL <ul style="list-style-type: none">Monthly costs for Verizon High Speed Internet plans range from \$49.99-69.99/month.Verizon High Speed Internet offers more than 90% availability in the Gloucester area.Verizon High Speed Internet does not place limits on data usage. View Plans	(855) 584-5279 Check Availability »
 Zip Coverage: 13.9% Fastest Speed: 6.0 Mbps	FIXED WIRELESS <ul style="list-style-type: none">KQVA.net plans are priced at \$29.99.KQVA.net is a fixed wireless broadband company. View Plans	(855) 250-5782

SATELLITE INTERNET PROVIDERS

 Zip Coverage: 100.0% Fastest Speed: 30 Mbps	✓ VERIFIED DATA SATELLITE <ul style="list-style-type: none">Viasat uses satellite technology to provide home WiFi service.Viasat packages start at \$50/month. View Plans	(855) 804-9003 Check Availability »
 Zip Coverage: 100.0% Fastest Speed: 25 Mbps	✓ VERIFIED DATA SATELLITE <ul style="list-style-type: none">HughesNet offers internet service through satellite technology.HughesNet plans start at \$59.99. View Plans	(877) 696-3529 Check Availability »


SUMMARY OF INTERNET PROVIDERS IN GLOUCESTER

Provider	Type	Coverage	Speed
<small>RESIDENTIAL</small> Verizon High Speed Internet	DSL	97.0%+	15 Mbps
<small>RESIDENTIAL</small> Cox Communications	Cable	95.5%+	300 Mbps
<small>RESIDENTIAL</small> EarthLink	Fiber	+	15 Mbps
<small>RESIDENTIAL</small> Viasat Internet (formerly Exede)	Satellite	100%	30 Mbps
<small>RESIDENTIAL</small> HughesNet	Satellite	100%	25 Mbps
<small>BUSINESS</small> Verizon High Speed Internet	DSL	100%	15 Mbps
<small>BUSINESS</small> Cox Business	Cable and Fiber	46.6%+	1,000 Mbps
<small>BUSINESS</small> Crown Castle Fiber	Fiber	9.9%+	1,000 Mbps
<small>BUSINESS</small> GTT Communications	Copper	1.8%+	-- Mbps
<small>BUSINESS</small> Windstream	Copper	0.7%+	1.5 Mbps

Note: Windstream has changed names and doesn't show that they provide services in Virginia.

23149 Saluda Zip Code

RESIDENTIAL INTERNET PROVIDERS IN SALUDA



Zip Coverage
27.8%

Fastest Speed
300 Mbps


✓ VERIFIED DATA FIBER BACKED CABLE

- Cox offers 5 internet plans.
- Cox plans do not include data limits.
- The top Cox internet service locally is cable.

[View Plans](#)

[\(855\) 802-7767](tel:(855)802-7767)

[Check Availability »](#)



Coverage Reported
✓


Fastest Speed
15 Mbps

✓ VERIFIED DATA FIBER

- Plans start at \$49.95/month.
- Speeds start at 15 Mbps. Call for speeds in your area.
- Unlimited internet service. Does not require bundled TV or phone service.

[\(855\) 703-6081](tel:(855)703-6081)

[Check Availability »](#)



Zip Coverage
26.4%

Fastest Speed
15 Mbps


✓ VERIFIED DATA FIBER BACKED DSL

- Verizon High Speed Internet's service area reaches 86.39% of people in Saluda.
- Verizon High Speed Internet does not limit data usage.
- Monthly costs for Verizon High Speed Internet services range from \$49.99-69.99.

[View Plans](#)

[\(855\) 584-5279](tel:(855)584-5279)

[Check Availability »](#)



ATLANTIC
broadband

Zip Coverage: 37.6%

Fastest Speed: 105 Mbps

CABLE

- Atlantic Broadband currently offers 2 internet packages and bundles.
- Internet services from Atlantic Broadband in Saluda don't include data caps.
- Fiber-backed cable is the main service provided by Atlantic Broadband.

[View Plans](#)

(888) 536-9600



VABB
Virginia Broadband

Zip Coverage: 51.8%


Fastest Speed: 25 Mbps

FIXED WIRELESS

- VIRGINIA BROADBAND LLC plans start at \$69.99.
- VIRGINIA BROADBAND LLC uses fixed wireless to provide home internet service.

[View Plans](#)

(540) 829-1700



wireless
Northern Neck Wireless

Zip Coverage: 50.0%

Fastest Speed: 15 Mbps

FIXED WIRELESS

- Star ratings of NNWIFI are above average.
- NNWIFI packages start at \$44.95.
- NNWIFI is a fixed wireless broadband company.

[View Plans](#)

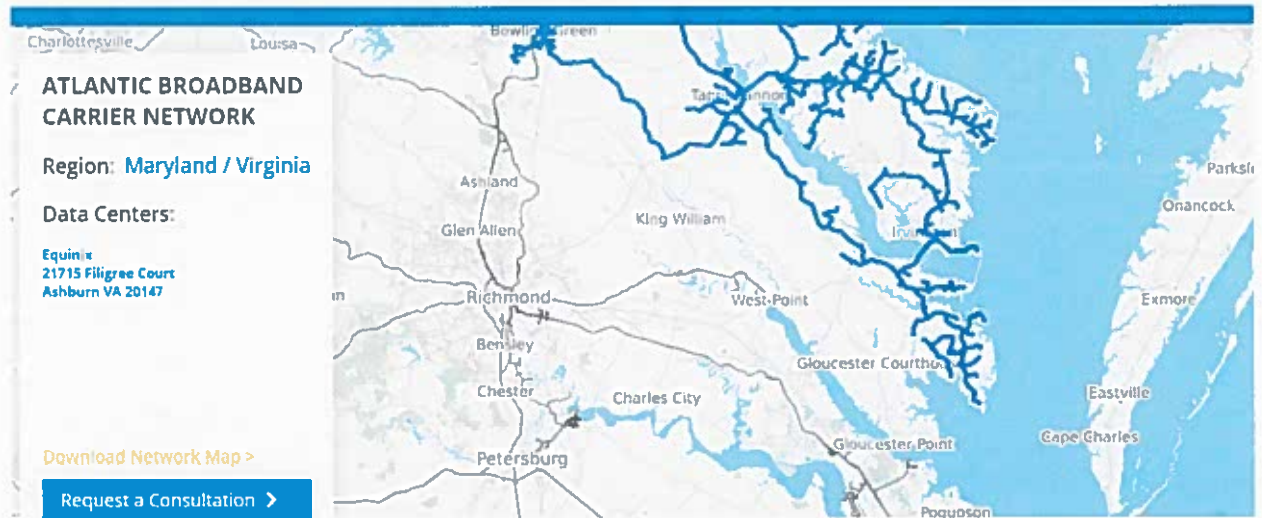
(804) 436-9434

SUMMARY OF INTERNET PROVIDERS IN SALUDA

Provider	Type	Coverage	Speed
Verizon High Speed Internet	DSL	96.4%	15 Mbps
VIRGINIA BROADBAND LLC	Fixed Wireless	51.8%	25 Mbps
Northern Neck Wireless Internet	Fixed Wireless	50.0%	15 Mbps
Atlantic Broadband	Cable	37.6%	105 Mbps
Cox Communications	Cable	27.8%	300 Mbps
KQVA.net	Fixed Wireless	13.9%	6.0 Mbps
Viasat Internet (formerly Exede)	Satellite	100%	30 Mbps
EarthLink	Fiber	*	15 Mbps
HughesNet	Satellite	100%	25 Mbps
Verizon High Speed Internet	DSL	100%	15 Mbps
Northern Neck Wireless Internet	Fixed Wireless	68.3%	15 Mbps
Crown Castle Fiber	Fiber	47.3%	1,000 Mbps
Cox Business	Cable and Fiber	30.5%	1,000 Mbps
Atlantic Broadband	Cable	31.9%	105 Mbps
Windstream	Fiber	13.4%	100 Mbps
Verizon Business	Copper	1.5%	1.5 Mbps

The companies listed in the above table that meet the VATI requirements (excludes the satellite provider), only Cox is available with the County boundary. See images that follow.

Note: Atlantic Broadband does not provide services in Gloucester County.



Note: Virginia Broadband doesn't show service available in Gloucester

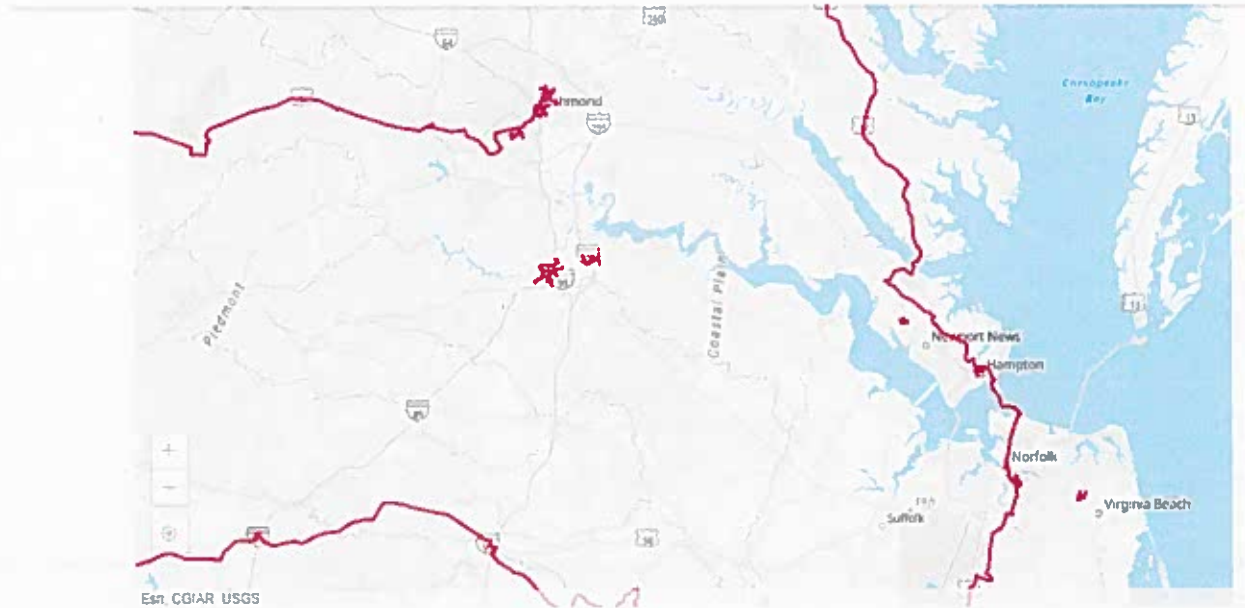
CITIES AND TOWNS VIRGINIA BROADBAND LLC HAS COVERAGE

- | | | | |
|----------------|-----------------|--------------------|--------------------|
| Amissville, VA | Aroda, VA | Banco, VA | Barboursville, VA |
| Bealeton, VA | Boston, VA | Brandy Station, VA | Brightwood, VA |
| Bruington, VA | Bumpass, VA | Burgess, VA | Burr Hill, VA |
| Callao, VA | Caret, VA | Castleton, VA | Center Cross, VA |
| Champlain, VA | Church View, VA | Cobbs Creek, VA | Colonial Beach, VA |
| Culpeper, VA | Deltaville, VA | Diggs, VA | Dunnsville, VA |
| Dutton, VA | Elkwood, VA | Etlan, VA | Farnham, VA |
| Foster, VA | Goldvein, VA | Gordonsville, VA | Grimstead, VA |
| Gwynn, VA | Hague, VA | Hallieford, VA | Hardyville, VA |

Note: Crown Castle has fiber running along Route 17 in Gloucester but doesn't provide service to individuals or businesses in Gloucester.



SEE OUR NE



3072 Hayes

Again, Cox is the only broadband provider in Gloucester County.

RESIDENTIAL INTERNET PROVIDERS IN HAYES

 Zip Coverage: 98.1% Fastest Speed: 300 Mbps	<p>✓ VERIFIED DATA FIBER BACKED CABLE</p> <ul style="list-style-type: none">Cox prices range from \$29.99 - \$99.99.Cox's Hayes download average 88.93 Mbps.Hayes locals have access to cable plans from Cox. View Plans	<p>(855) 802-7767</p> <p>Check Availability »</p>
 Coverage Reported: Fastest Speed: 15 Mbps	<p>✓ VERIFIED DATA FIBER</p> <ul style="list-style-type: none">Plans start at \$49.95/month.Speeds start at 15 Mbps. Call for speeds in your area.Unlimited Internet service. Does not require bundled TV or phone service.	<p>(855) 703-6081</p> <p>Check Availability »</p>
 Zip Coverage: 96.6% Fastest Speed: 15 Mbps	<p>✓ VERIFIED DATA FIBER BACKED DSL</p> <ul style="list-style-type: none">Verizon High Speed Internet offers high-speed DSL plans in Hayes.Plans start at \$49.99.Verizon High Speed Internet is available to 98.64% of Hayes. View Plans	<p>(855) 584-5279</p> <p>Check Availability »</p>

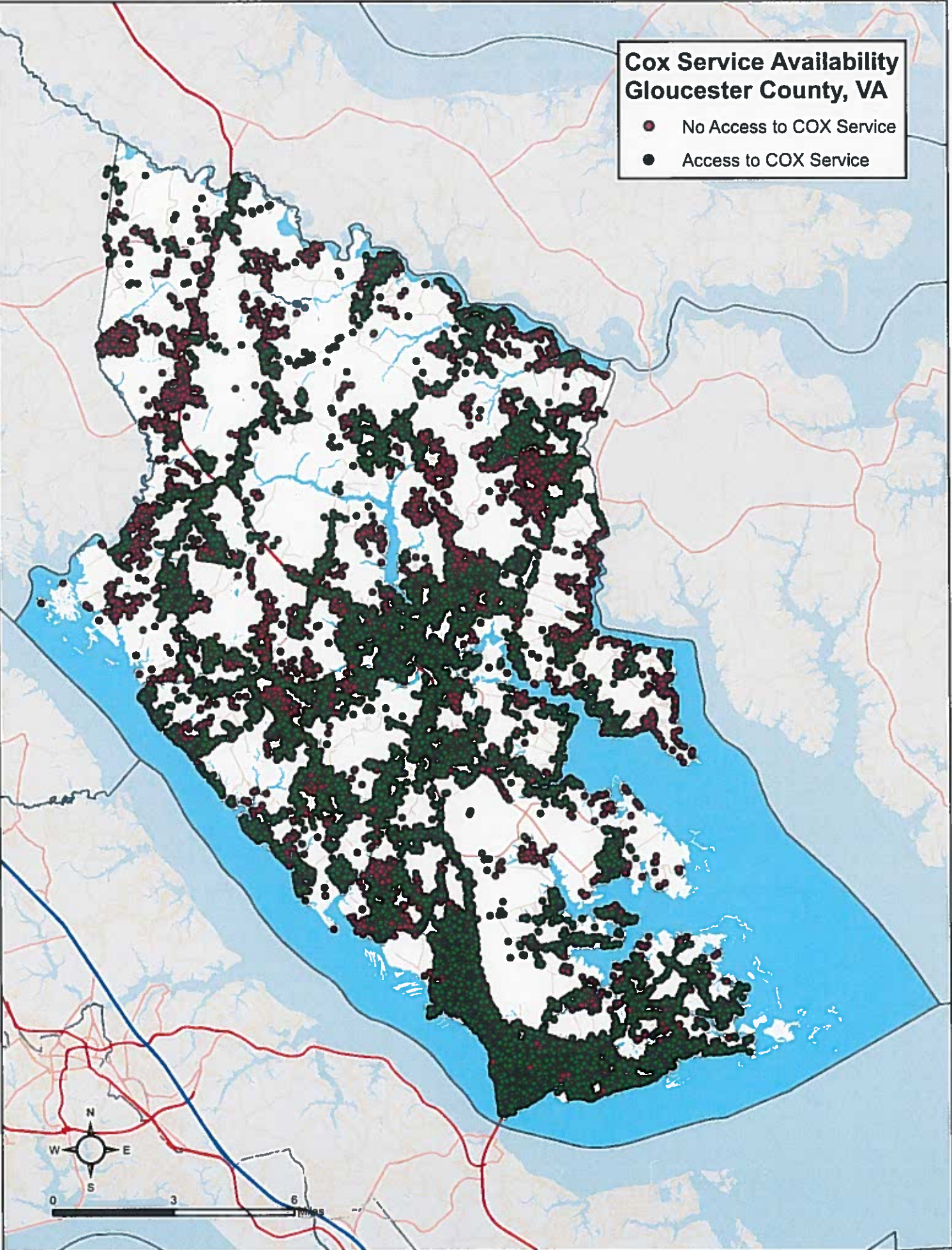
SUMMARY OF INTERNET PROVIDERS IN HAYES

Provider	Type	Coverage	Speed
<small>RESIDENTIAL</small> Verizon High Speed Internet	DSL	98.6%+	15 Mbps
<small>RESIDENTIAL</small> Cox Communications	Cable	98.1%+	300 Mbps
<small>RESIDENTIAL</small> EarthLink	Fiber	+	15 Mbps
<small>RESIDENTIAL</small> Viasat Internet (formerly Exede)	Satellite	100%	30 Mbps
<small>RESIDENTIAL</small> HughesNet	Satellite	100%	25 Mbps
<small>BUSINESS</small> Verizon High Speed Internet	DSL	100%	15 Mbps
<small>BUSINESS</small> Cox Business	Cable and Fiber	30.3%+	1,000 Mbps
<small>BUSINESS</small> Crown Castle Fiber	Fiber	16.1%+	1,000 Mbps
<small>BUSINESS</small> Verizon Business	Copper	4.0%+	1.5 Mbps

The same information as the other Zip Codes, only Cox Communications provides broadband in Gloucester County.

Cox Service Availability Gloucester County, VA

- No Access to COX Service
- Access to COX Service



CAF Funding Area

The map below shows that King and Queen County is part of the CAF Phase II. The map below shows the County border as a reference.

Federal Communications Commission

Browse by CATEGORY Browse by BUREAUS & OFFICES

About the FCC Proceedings & Actions Licensing & Databases Reports & Research News & Events For Consumers

Home | Reports & Research | Maps

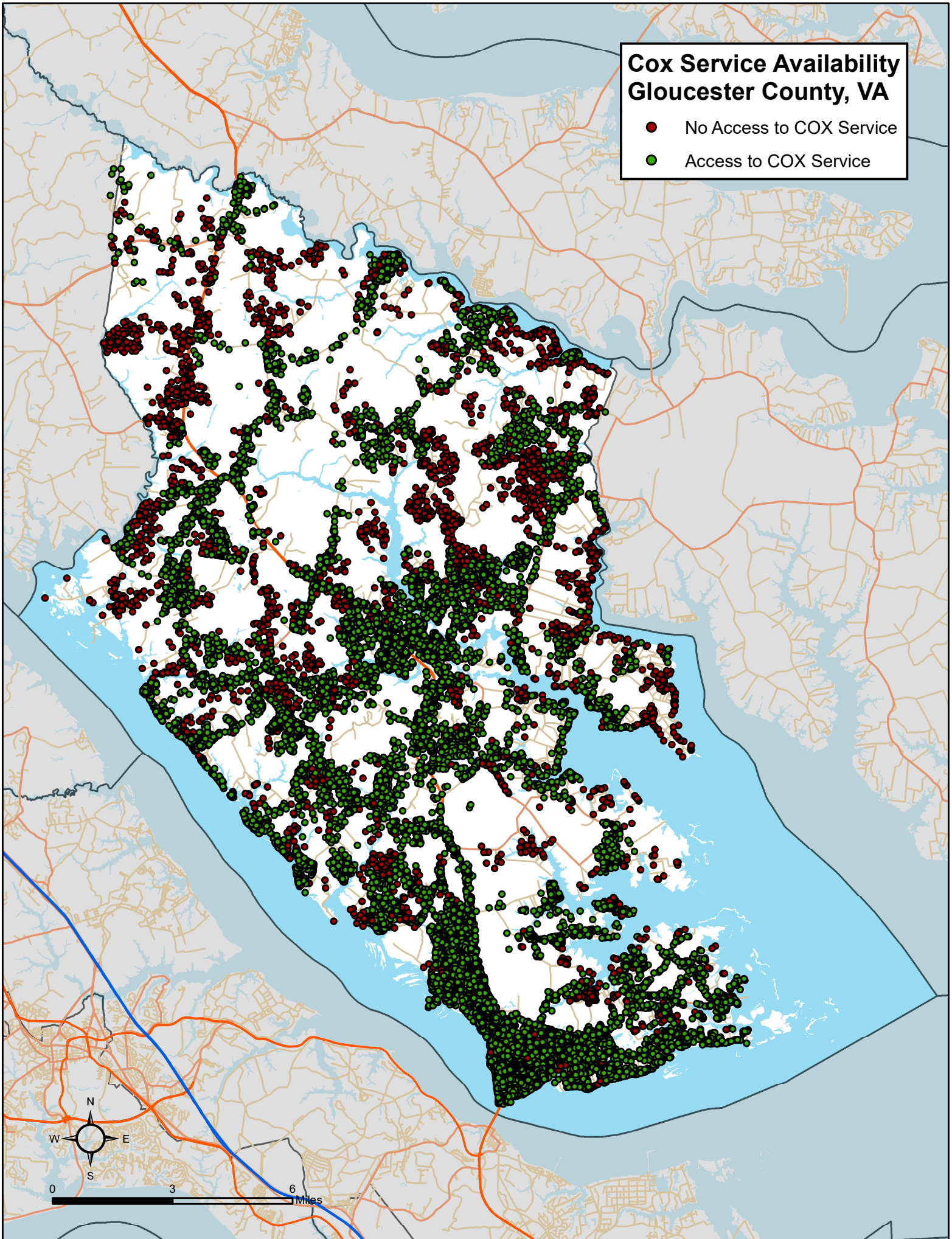
Connect America Fund Phase II: Auction 903 Results

Data as of 8/28/18



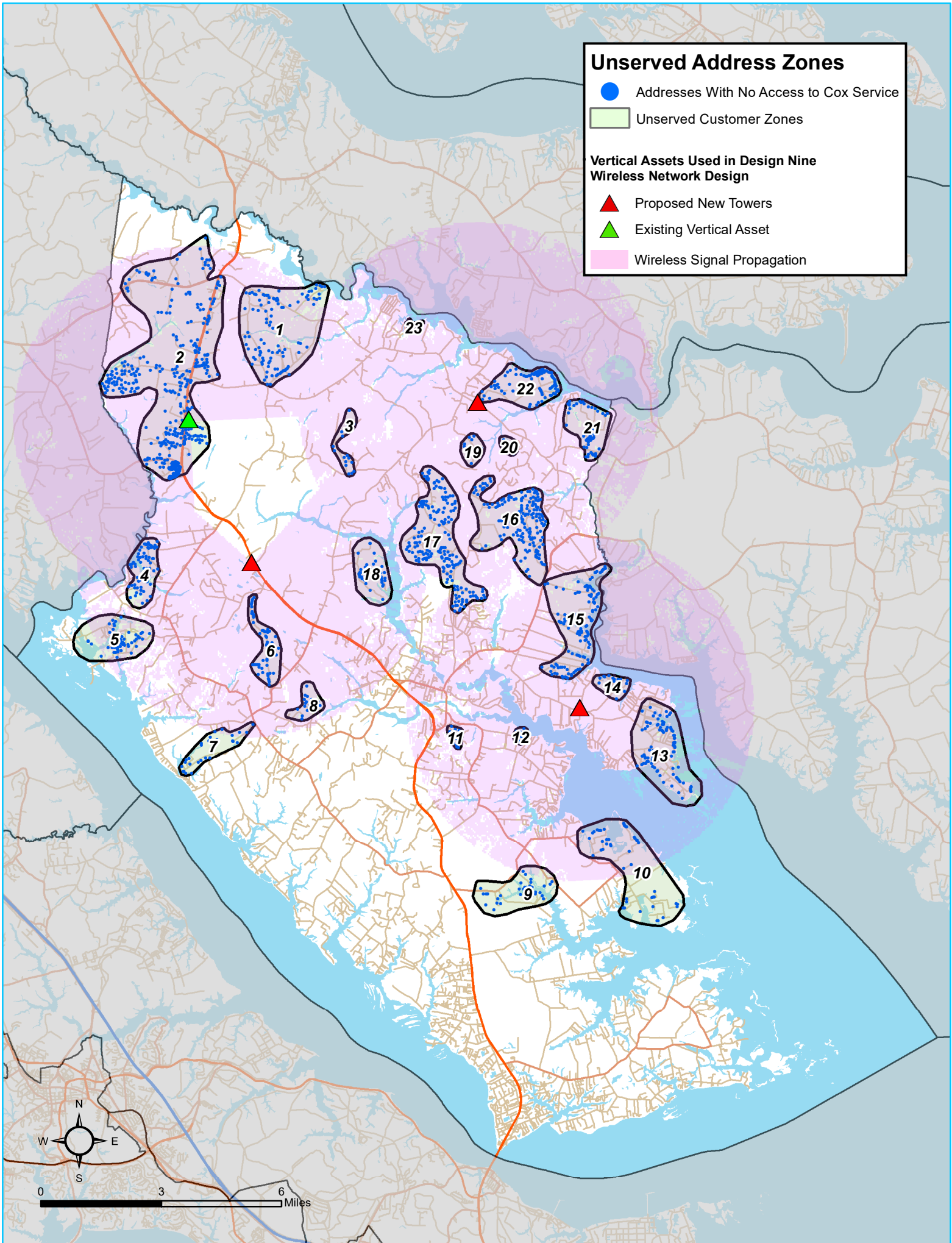
Cox Service Availability Gloucester County, VA

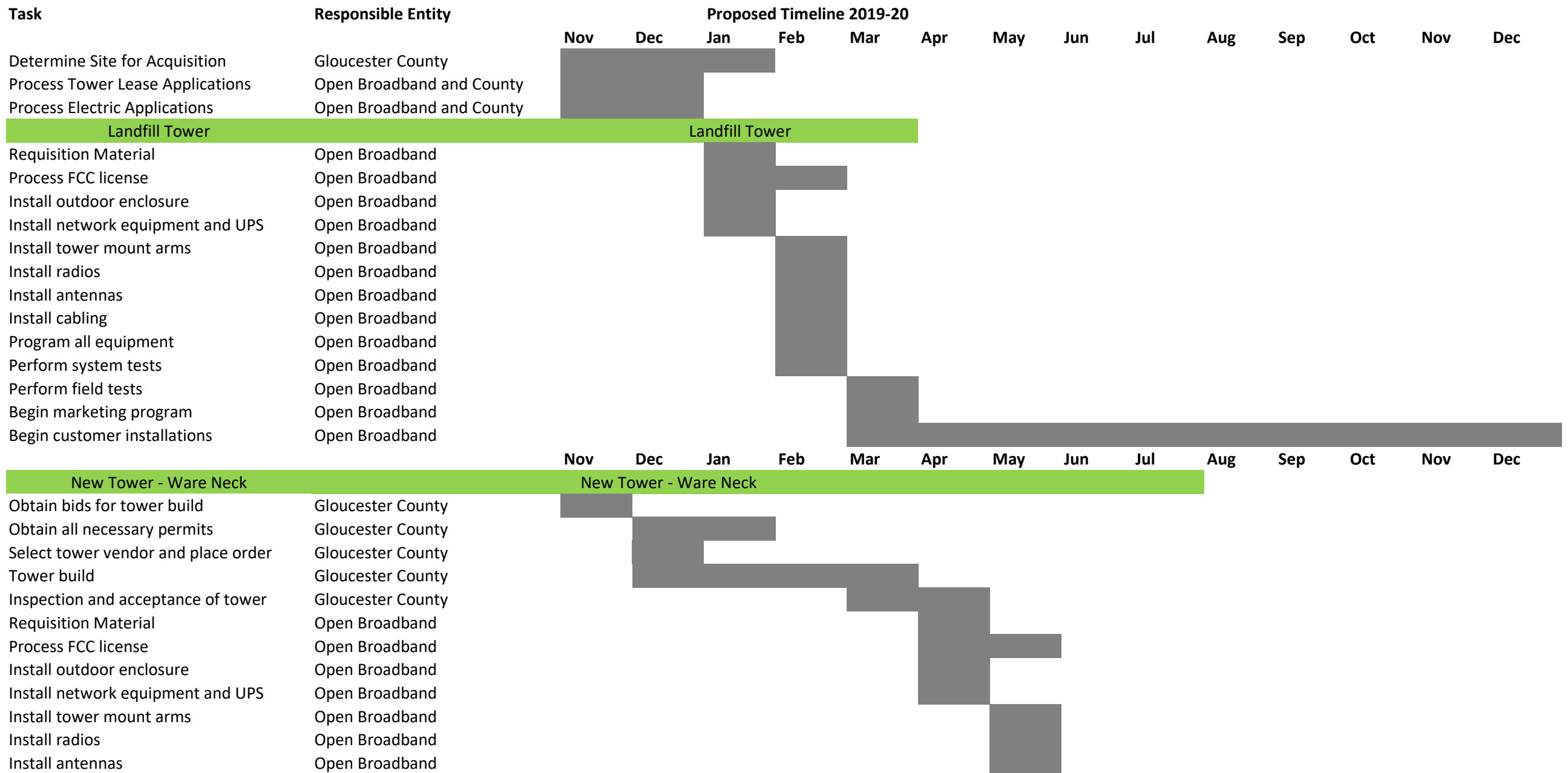
- No Access to COX Service
- Access to COX Service



Unserviced Address Zones

- Addresses With No Access to Cox Service
 - Unserviced Customer Zones
- Vertical Assets Used in Design Nine Wireless Network Design**
- ▲ Proposed New Towers
 - ▲ Existing Vertical Asset
 - Wireless Signal Propagation





Process FCC license	Open Broadband
Install outdoor enclosure	Open Broadband
Install network equipment and UPS	Open Broadband
Install tower mount arms	Open Broadband
Install radios	Open Broadband
Install antennas	Open Broadband
Install cabling	Open Broadband
Program all equipment	Open Broadband
Perform system tests	Open Broadband
Perform field tests	Open Broadband
Begin marketing program	Open Broadband
Begin customer installations	Open Broadband





COUNTY OF GLOUCESTER
CENTRAL PURCHASING
 6467 MAIN STREET
 GLOUCESTER, VA 23061 - 0329
 PHONE 804-693-6235 FAX 804-693-0061

PURCHASE ORDER NO. 20000205

PAGE NO. 1

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COUNTY OF GLOUCESTER
 FINANCE DEPARTMENT
 6467 MAIN STREET
 GLOUCESTER, VA 23061

PURCHASE ORDER NUMBERS ABOVE MUST APPEAR ON
 ALL INVOICES SHIPPING PAPERS AND PACKAGES

SHIP PER ATTACHED BID DOCUMENT

GLOUCESTER, VA 23061

ATTN: ELIZABETH RIPLEY/ CAROL STEEL

V
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N
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37181
 OPEN BROADBAND LLC
 PO BOX 723
 WAXHAW NC 28173

ORDER DATE: 08/21/19	BUYER: BILL LINDSEY	REQ. NO.: 20001226	REQ. DATE: 06/26/20
TERMS: NET 45 DAYS	F.O.B.: FOB:GLOUCESTER	DESC.: BROADBAND GRANT	
ITEM#	QUANTITY	UOM	EXTENSION

ITEM#	QUANTITY	UOM	DESCRIPTION	UNIT PRICE	EXTENSION
01	1.00	LN	Such services shall be in compliance with RFP 20-006-BL and the offerors response of August 19, 2019. DEVELOP VATI BROADBAND GRANTS BY DEADLINE 9/3/19, IN PARTNERSHIP W/ COUNTY TO SEEK FUNDING FOR CONSTRUCTION, INSTALL OF EQUIP & OPERATION-BROADBAND SVCS TO UN-SERVED COUNTY CITIZENS.	1.0000	1.00

ITEM#	ACCOUNT	AMOUNT	PROJECT CODE	PAGE TOTAL \$	1.00
01	1046000654000000 48201000	1.00		TOTAL \$	1.00

NOTICE TO VENDORS

1. WE RESERVE THE RIGHT TO CANCEL THIS ORDER AND REJECT GOODS IF NOT DELIVERED WHEN REQUIRED AND IN ACCORDANCE WITH SPECIFICATIONS
2. ACCEPTANCE OF THIS ORDER INCLUDES ACCEPTANCE OF ALL TERMS, PRICES, DELIVERY INSTRUCTIONS AND CONDITIONS STATED. SEE REVERSE SIDE
3. UNLESS OTHERWISE STATED OR PREVIOUSLY AGREED UPON, ALL PRICES ARE F O B DESTINATION. DELIVERIES MUST BE PREPAID, INCLUDING INSIDE DELIVERY, BOXING AND CARTAGE.

APPROVED BY Bill Lindsey
 PURCHASING AGENT



REQUEST FOR PROPOSALS

Broadband Services Provider

RFP No: 20-006-BL
Date: July 29, 2019
County of Gloucester
Central Purchasing Office
6467 Main Street – 1st Floor
Gloucester, VA 23061
Phone: (804) 693-6235 Fax: (804) 693-0061

Sealed proposals, subject to the terms and conditions contained herein, will be received at the above office of Central Purchasing, 1st Floor, 6467 Main Street, Gloucester, Virginia, 23061, through the due date and hour shown below (local prevailing time), for furnishing the following described materials, and/or services, for delivery and/or performance F.O.B. GLOUCESTER COUNTY, VIRGINIA.

Scope of Services: To establish an agreement with a qualified contractor to provide broadband services to Gloucester County homes and businesses that are presently not serviced.

Proposals Due: August 12, 2019 by Close of Business

Contract Officer:


Bill Lindsey, CPPO, C.P.M., Purchasing Agent

ONE ORIGINAL AND THREE (3) COPIES OF YOUR SUBMITTAL IS REQUESTED

In compliance with this Request for Proposals, and subject to all the conditions thereof, the undersigned offers to furnish the materials requested and certifies he has read, understands, and agrees to all terms, conditions, and requirements of this proposal, and is authorized to contract on behalf of firm named below.

Company Name: Open Broadband, LLC
Address: P.O. Box 723
City/State/Zip: Waxhaw, NC 28173
Telephone: 704-237-0102 FAX No.: - E-mail: alan@openbb.net
Business License No. C2016 270 00880 Jurisdiction: NC
Federal Tax ID (or Social Security #): 81-4019167
Print Name: Alan Fitzpatrick Title: CEO
Signature: Alan Fitzpatrick Date: 8/19/19

NOTICES

RFP Response for Gloucester County

Broadband Services Provider

RFP #20-006-BL

August 19, 2019

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1. Introduction	Pages 4-5
2. Project Summary	Pages 5-14
3. Methodology	Pages 14-24
4. Staffing	Page 25-26
5. Qualifications	Page 27-28
6. Exhibit 1 – Open Broadband Service Plan Pricing	Pages 29-30
7. Exhibit 2 – Proposed Tower Agreement	Pages 31-34

University clients include Guilford Technical Community College, University of Mount Olive, and Pfeiffer University.

Open Broadband is engaged in economic development in the communities in which we work. Our CEO founded CharlotteHeartsGigabit.com, one of the leading advocacy groups in the country on promoting gigabit broadband, and [NC Hearts Gigabit](#), the equivalent statewide effort which holds an annual interactive [conference at the NC Rural center](#). Our founders spoke at **Gigabit County Summit** and **Gigabit Cities Live** events, Broadband Communities conferences, the Connect(x) Wireless Conference, and brought Mozilla to Charlotte to host a Gigabit 101 Workshop. We co-hosted a 5 County **Gigabit Hackathon (GIGHacks)** in Charlotte, and emceed an ethical hacking competition in Wilson NC.

Our CEO is on the County of Charlotte's **Digital Inclusion Steering Committee**, focusing on closing the digital divide. A member of our team is an experienced trainer of **Digital Literacy and Digital Inclusion** programs. We can offer a series of classes to help residents leverage internet access for job search, medical information, education, and other applications critical to being successful in society today. We believe broadband infrastructure is an essential need and everyone needs home access.

Open Broadband was founded by 2 veterans of the telecom industry each with 25+ years of operations providing broadband service. In 2016 we saw the great need for broadband connectivity in underserved areas and decided to depart our employers to form a company, Open Broadband LLC, to address it. An application for a certificate of registration to transact business in Virginia as a foreign limited liability company is in process. It will be provided upon selection as the chosen vendor for this RFP.

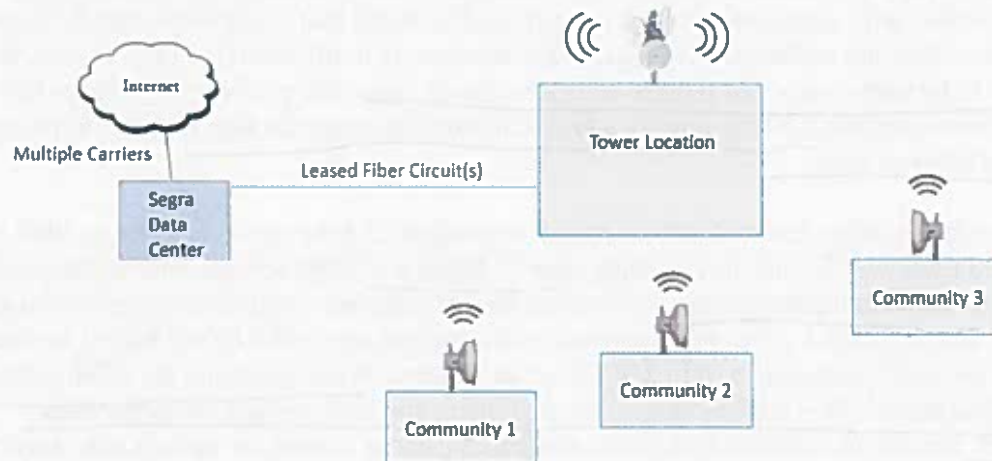
Our company works with a variety of other telecom carriers in order to provide service to end users. We typically use Segra for our Data Center and upstream bandwidth needs. We lease fiber circuits from various carriers to get out to towers and buildings where our antennas are located. We currently have circuits with Spectrum, AT&T, CenturyLink, Conterra Broadband, Segra, and PANGAEA. We don't currently have circuits with Mid-Atlantic Broadband, but may consider them as a possible vendor for a fiber circuit in Gloucester County. This RFP response is solely on behalf of Open Broadband, LLC. The vendors listed above are ones we typically work with but they are not part of this RFP submission.

Project Summary

Our approach

We use public-public-partnerships in deploying broadband to unserved areas. We view the County as our partner in the process, and hold joint planning sessions on a regularly scheduled basis. It begins in the kickoff meeting when both partners describe their goals and objectives, short-term and long-term. Data needs are identified, with action items developed, assigned, and documented. Open Broadband will assign a Project Manager to the effort and asks that the County appoint a single point of contact for working with us. When we applied for the North

selected use of 2.4GHz where applicable. It is this service that allows for Non-Line-of-Site (NLoS) service through trees. Very few companies offer or are even familiar with LTE, and for a project like this, it will be required. Symmetric speeds can be provided on 5 GHz and above radios, and Open Broadband has the majority of clients using service at 25 Mbps, 50 Mbps, and 100 Mbps speeds. To a lesser degree we have customers using us for symmetrical 200 Mbps, 300 Mbps, and 1000 Mbps. In non-line-of-sight applications we use 3.65 GHz and/or 2.4 GHz spectrum, which operates most efficiently today at 25 Mbps x 3 Mbps. We purchase these radios "off-the-shelf" from the manufacturers. As radio technology continues to improve we will upgrade our fixed-wireless radios to faster speeds. We are hopeful that the radio manufacturers will develop symmetric 100 Mbps service in the 3.65 GHz (CBRS) spectrum in the future.



We primarily use a fixed-wireless last-mile, and fiber to the tower network design as we've found it to be the most cost effective, fastest to install technology that results in the fastest speeds and lowest cost to consumers. Fiber alone often does not make economic sense in rural areas due to the high cost of installation and having to pass every property on the route. Wireless alone can have limitations on bandwidth and network expansion. A hybrid approach takes the best of each technology, using fiber for high bandwidth to the data center, while using last mile fixed-wireless to quickly turn up just those users who subscribe to the service.

Open Broadband Service Availability

Our network is designed with the following specifications:

- Data Center: SSAE 16 compliant, PCI DSS compliant, and HIPAA compliant. The data center is staffed 24x7x365 and has a 99.999% network uptime guarantee.
- Fiber circuits are on carrier backbones with a 99.999% network uptime guarantee.
- Fixed-wireless antennas are rated for 99.99% uptime.
- Fixed-wireless circuits are designed to withstand typical weather patterns including heavy rain, winds, and snow.
- 11GHz fixed-wireless backhaul circuits are licensed links to avoid interference.

open broadband

PO Box 723, Waxhaw, NC 28173

919-205-5400

www.openbb.net

- Belmont NC downtown Wi-Fi
- TechWorks Innovation Center Wi-Fi
- Tabbris Coworking Wi-Fi
- Pfeiffer University Sports Field Wi-Fi (Misenheimer NC)
- Bryan Sports Complex Park Wi-Fi (Goldsboro)
- Romare Bearden Park Wi-Fi (Charlotte)
- Dillehay Courts Community Wi-Fi (Charlotte)
- Town of Angier downtown and parks
- Town of Sanford downtown (summer 2019)

Examples of pole mounted Wi-Fi equipment:



from the tower, we are delivering symmetrical speeds up to 100 Mbps using the 5GHz frequency.

Fixed-wireless technology is impacted by vegetation and line-of-sight factors. In areas with heavy vegetation we have to use the lower frequencies (2.4 GHz, or LTE/CBRS at 3.5 GHz or 2.5 GHz), and as a result, target 25 Mbps down by 3 Mbps up in those areas. Much of the unserved and underserved areas in fall into this category.

Fixed wireless radios and antennas are readily available from distributors in the US. Vendors include Ubiquiti, IgniteNet, BaiCells, RF Elements, Mimosa, Cambium, and Carlson. The technology we are deploying is state of the art with an expected minimum life span of 5 years. Open Broadband will install maintain, and upgrade its network equipment as needed to maintain high service levels. Open Broadband owns all network equipment and does not expect the counties to hold a lease on any equipment.

Video and phone service

Video services are not provided by Open Broadband, but we will support the wide variety of commercially available over-the-top service options such as Sony VUE, Sling.tv, YouTube.tv, Netflix and others. Our high-speed service easily accommodates multiple video streams, allowing households to have multiple video streams happening simultaneously.

For phone service we recommend several VoIP options that include an ATA (analog telephone adapter) that connects to our internet service. Service is less than \$20/month/line. Other solutions such as magicJack offer a full year of VoIP service for \$35.

Rather than provide our own video and VoIP services we simply point customers to these commercially available offerings which work well with our broadband service.

Customer Support

Through our relationship with the County of Wilson NC, the 24x7x365 US based Call Center supports 80% calls answered within 30 seconds. Users may also submit support requests 24x7x365 via the website. Some service requests can be resolved in a self-service manner by the FAQs, others within minutes over the phone with the call center agent. Other service requests may require on-site support (e.g. storm damage) and thus longer repair times including next business day.

We strive to provide superior customer service, and are offering SLAs to businesses and anchor institutions as described in the next section. Storm damage, downed trees, lightning damage, etc. will result in longer times to repair. Our overall approach to meet or beat the SLAs offered by the major ISPs in the metro areas (Spectrum, Windstream, etc.).

Business and anchor institutions (government, schools, etc.) will receive priority restoration service. These customers have active monitoring and proactive identifications of outages, enabling Open Broadband to address issues even prior to the customer becoming aware they have an issue. We offer these groups an SLA of 99.95% service availability, with the ability to



**Gloucester County
Administrator's Office**

Telephone 804-693-4042

P. O. Box 329, Gloucester, Virginia 23061

Fax 804-693-6004

August 29, 2019

Virginia Department of Housing and Community Development
Virginia Telecommunication Initiative (VATI)
Via DHCD CAMS Upload

Director Johnston:

Gloucester County is grateful for the opportunity to submit two VATI grant applications for consideration by the Department of Housing and Community Development (DHCD). As you are aware, localities across the Commonwealth are struggling to find ways to bridge the digital divide and to provide the opportunity for broadband services to our citizens. If funded, the two applications will address the majority of residents and businesses that currently lack access in Gloucester County.

The first application is to extend services through our ongoing partnership with Cox Communications at speeds well in excess of the grant threshold to 68 homes. The second application using a fixed wireless approach will reach the more rural areas of the County, providing services to homes and businesses, and has an added benefit of providing access to approximately 1,500 sites in our neighboring communities of Mathews and Middlesex Counties.

The attached resolution of the Gloucester County Board of Supervisors conveys the strong support of our elected leaders and includes approval of a sizeable cash contribution. The County is committed to expanding broadband in the most efficient and expedient manner. Providing County funds, forming a citizen and staff Telecommunications Committee, assigning a member of the administrative staff to manage the project from conducting citizen surveys to working with telecommunication engineers and writing the grant are all evidence of our desire to move forward and fill the gap in broadband services.

Gloucester County has extensive experience managing grants from State and Federal agencies. Both of our partners, Cox Communications and Open Broadband, are very competent and have run successful development projects for years. We hope to partner with DHCD in 2020 and be a model for how communities can use a mixed technological approach to provide services throughout their localities. Please do not hesitate to contact me if you have any concerns or questions about our proposals.

Sincerely,

J. Brent Fedors
County Administrator

JBf:cs

AT A REGULAR MEETING OF THE GLOUCESTER COUNTY BOARD OF SUPERVISORS, HELD ON TUESDAY, AUGUST 6, 2019, AT 6:30 P.M., IN THE COLONIAL COURTHOUSE, 6504 MAIN STREET, GLOUCESTER, VIRGINIA: ON A MOTION DULY MADE BY MR. HUTSON, AND SECONDED BY DR. ORTH, THE FOLLOWING RESOLUTION WAS ADOPTED BY THE FOLLOWING VOTE:

Phillip N. Bazzani, no;
Ashley C. Chriscoe, yes;
Christopher A. Hutson, yes;
Andrew James, Jr., yes;
Robert J. Orth, yes;
Kevin M. Smith, yes;
Michael R. Winebarger, yes;

RESOLUTION AUTHORIZING THE COUNTY ADMINISTRATOR TO EXECUTE AND SUBMIT A GRANT PROPOSAL FOR THE FY2020 VIRGINIA TELECOMMUNICATION INITIATIVE PROGRAM

WHEREAS, the Commonwealth of Virginia, through the Department of Housing and Community Development, announced the Virginia Telecommunication Initiative (VATI) competitive grant program to provide financial assistance to selected applicants to supplement construction costs by private sector broadband service providers, in partnership with local units of government, to extend service to “unserved” areas; and

WHEREAS, the development of broadband throughout the County is part of the Board’s strategic priorities; and

WHEREAS, applications must be submitted by a unit of government with a private sector provider as a co-applicant; and

WHEREAS, Gloucester County will partner with qualified private sector provider(s) to submit a grant proposal(s); and

WHEREAS, VATI funding can provide up to 80% of the total project cost and matching funds of 20% are required; and

WHEREAS, VATI grant funding is very competitive and a higher local match will greatly increase the possibility of receiving grant funds; and

WHEREAS, Gloucester County owns communication towers and water towers that may be able to be used for fixed wireless broadband equipment, without interfering with existing equipment, thereby greatly reducing project costs.

NOW, THEREFORE, BE IT RESOLVED, that the Gloucester County Board of Supervisors supports the submission of a grant proposal for the Virginia Telecommunication Initiative program and authorizes the County Administrator to execute proposal documents for the submission and subsequent agreement.

FURTHER BE IT RESOLVED that Gloucester County hereby commits to provide between 10 percent and 30 percent of the total project cost in matching contribution, not to exceed \$500,000 in the form of cash, salary expense, or in-kind contributions.

A Copy Teste:

A handwritten signature in blue ink, appearing to be "J. Brent Fedors", with a date "8/8/15" written to the right of the signature.

J. Brent Fedors, County Administrator



MIDDLE PENINSULA PLANNING DISTRICT COMMISSION

August 29, 2019

COMMISSIONERS

Essex County

Vacant

Hon. Edwin E. Smith, Jr.

Hon. John C. Magruder

Mr. Michael A. Lombardo

Town of Tappahannock

Hon. Roy M. Gladding

Gloucester County

Hon. Ashley C. Chriscoe

(Vice-Chairman)

Dr. William G. Reay

Hon. Michael R.

Winebarger

King and Queen County

Hon. Sherrin C. Alsop

Hon. R. F. Bailey

Mr. Thomas J.

Swartzwelder

(Chairman)

King William County

Hon. David E. Hansen

Hon. Travis J. Moskalski

(Treasurer)

Mr. Eugene J. Rivara

Town of West Point

Hon. James Pruett

Mathews County

Hon. George C. Morrow

Mr. Thornton Hill

Mr. Michael C. Rowe

Ms. Melinda Conner

Middlesex County

Mr. Gordon E. White

Hon. Wayne H. Jessie, Sr.

Mr. Matthew L. Walker

Hon. Kathy H. Swinehart

Town of Urbanna

Hon. Diane Gravatt

Ms. Holly Gailey

Secretary/Director

Mr. Lewis L. Lawrence

Ms. Carol Steele

Assistant County Administrator

P.O. Box 329

Gloucester, VA 23061

Dear Ms. Carol Steele,

The Middle Peninsula Planning District Commission is pleased to support Gloucester County's application for a Virginia Telecommunications Initiative (VATI) grant to provide broadband to unserved areas in the county. The addition of intranet services will benefit both residents and businesses, providing a better quality of life and more economic vitality to the area. We are especially supportive of the regional impact with approximately 1,500 unserved residents of Mathews and Middlesex County obtaining broadband access.

Much of the unserved areas in Gloucester are along the waterfronts where working watermen make their living. Not only do the areas not have broadband, but some of the sites have no cell coverage or spotty coverage at best. The County's plan to provide public broadband access at the Aberdeen Creek docks and the Timberneck Boat Landing/Dock, two of the most frequented sites for watermen on the York River, will have tremendous benefit. Broadband access will allow watermen to communicate with their markets, check for pricing and make distribution plans which will create greater efficiency and generate additional sales revenue. Some of the watermen do not have broadband access at their homes or may not be able to afford the service. Utilizing service at the docks could make a big difference to their business. Establishing public access to help the watermen is an innovative way to provide assistance to one of Virginia's oldest and vital industries.

The Middle Peninsula needs ubiquitous broadband service to maintain and improve housing markets, develop new businesses, be able to utilize telehealth services and to ensure our children are properly educated and are competitive with students from other regions.

Thank you for your consideration of Gloucester County's application. If you have any additional questions please feel free to contact me by phone at 804-758-2311 or by email at [llawrence@mppdc.com](mailto:l.lawrence@mppdc.com).

Sincerely,

Lewis Lawrence



September 3, 2019

Carol Steele, Deputy County Administrator
Gloucester County, Virginia
County Office Building One
6467 Main Street
P.O. Box 329
Gloucester, Virginia 23061

Dear Ms. Steele:

On behalf of the Middlesex County Board of Supervisors, I am writing in support of Gloucester County's efforts to provide broadband coverage through a fixed wireless deployment. Based on propagation predictions, this project will also make broadband available to the citizens of Middlesex County that fall within the broadcast radius of a new tower that is being built. The proposed area includes unserved residents of Middlesex County that are not included with the County's regional grant application.

Middlesex County appreciates being part of this regional effort and your willingness to prepare the required grant application.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark E. Holt, III". The signature is fluid and cursive.

Mark E. Holt, III
Chairman, Middlesex Board of Supervisors

County Administration



September 3, 2019

Carol Steele, Assistant County Administrator
Gloucester County, Virginia
County Office Building One
6467 Main Street
P.O. Box 329
Gloucester, Virginia 23061

Dear Ms. Steele:

On behalf of the Mathews County Board of Supervisors, I am writing in support of Gloucester County's efforts to provide broadband coverage through a fixed wireless deployment. Based on propagation predictions, this project will also make broadband available to the citizens of Mathews County that fall within the broadcast radius of a new tower that is being built.

Mathews County appreciates being part of this regional effort and your willingness to prepare the required grant application.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Melinda Conner".

Melinda Conner
County Administrator

804.725.7172 office
804.725.7805 fax
mathewscountyva.gov

50 Brickbat Road | P.O. Box 839 | Mathews, VA 23109

BE HERE
MATHEWS

Gloucester Telecommunications Committee
c/o Gloucester County Administration
P.O. Box 329
Gloucester, VA 23061

August 21, 2019

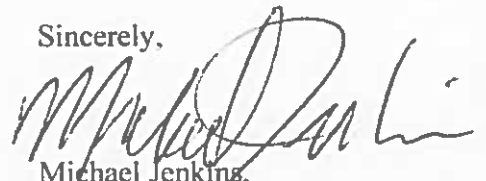
Dear Sir or Madam:

The Gloucester County Telecommunication Committee voted unanimously to offer its support of the County's Virginia Telecommunications Initiative (VATI) grant request. As residents of the County and volunteers on the committee, we are very familiar with what the lack of broadband access means to the citizenry, the School System, to Workforce Development, to the quality of life in Gloucester and to our economy. Broadband is an essential utility that every resident and business needs access to.

We appreciate your consideration of Gloucester's request and hope that the Virginia Department of Community Development and Housing will look favorably on the County's application. With the State's assistance and the County's partners, we can resolve the gap in services and achieve our goal of broadband access throughout the entire county.

Thank you for helping to make broadband a priority in Virginia and for providing numerous opportunities for communities to learn about the VATI program.

Sincerely,



Michael Jenkins,
Chairperson

In-Kind Budget Contributions

Name			In-Kind Contribution
Gloucester County	Provision County owned tower for (3) years	Landfill Tower	\$ 36,000
Gloucester County	Provision County owned tower for (3) years	Ware Neck Tower	\$ 36,000
Gloucester County	Provision County owned tower for (3) years	Petsworth Tower	\$ 36,000
Gloucester County	Provision County owned tower for (3) years	Dutton Rd Tower	\$ 36,000
Gloucester County	Project Mgmt & Coordination (1-year)	Landfill Tower	\$ 6,000
Gloucester County	Project Mgmt & Coordination (1-year)	Ware Neck Tower	\$ 6,000
Gloucester County	Project Mgmt & Coordination (1-year)	Petsworth Tower	\$ 6,000
Gloucester County	Project Mgmt & Coordination (1-year)	Dutton Rd Tower	\$ 6,000
			\$ 168,000
Name			In-Kind Contribution
Open Broadband	Equipment	Landfill Tower *	\$ 92,748
Open Broadband	Equipment	Ware Neck Tower	\$ 69,973
Open Broadband	Equipment	Petsworth Tower	\$ 53,621
Open Broadband	Equipment	Dutton Rd Tower	\$ 78,120
Open Broadband	Construction Labor	Landfill Tower	\$ 1,500
Open Broadband	Construction Labor	Ware Neck Tower	\$ 1,500
Open Broadband	Construction Labor	Petsworth Tower	\$ 1,500
Open Broadband	Construction Labor	Dutton Rd Tower	\$ 1,500
Open Broadband	Provision of electrical costs to towers for (3) years	Landfill Tower	\$ 1,800
Open Broadband	Provision of electrical costs to towers for (3) years	Ware Neck Tower	\$ 1,800
Open Broadband	Provision of electrical costs to towers for (3) years	Petsworth Tower	\$ 1,800
Open Broadband	Provision of electrical costs to towers for (3) years	Dutton Rd Tower	\$ 1,800
Open Broadband	Project Mgmt & Coordination (1-year)	Landfill Tower	\$ 6,000
Open Broadband	Project Mgmt & Coordination (1-year)	Ware Neck Tower	\$ 6,000
Open Broadband	Project Mgmt & Coordination (1-year)	Petsworth Tower	\$ 6,000
Open Broadband	Project Mgmt & Coordination (1-year)	Dutton Rd Tower	\$ 6,000
Open Broadband	Provision of 3 poles for Public Wi-Fi access - Labor and Set-up		\$ 12,000
Open Broadband	Provision of operation of Wifi (3) years operations		\$ 6,479
Open Broadband	Fiber and Data Center BW (3) years		\$ 126,000
			\$ 476,141
		Grand Total of In-Kind Contributions	\$ 644,141
	* Note - rounding up on backup documents caused \$1 difference		

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	\$1,082,217	52%	PENDING
OPEN BROADBAND IN-KIND	\$476,141	23%	PLEDGED
GLOUCSTER COUNTY IN-KIND	\$168,000	8%	PLEDGED
GLOUCESTER COUNTY CASH MATCH	\$361,000	17%	PLEDGED
TOTAL	\$ 2,087,358	100 %	

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Landfill Tower					
	\$ 1,680	\$ 1,680			8/18/2019
3.65 GHz AW3035-T0 Alpha Sector Antennas 3.65 65 degree			\$ -	Baltic Networks or ISP Supplies	
	\$ 15,996	\$ 15,996			8/18/2019
3.65 GHz mBS1105 BaiCells eNB 3.65 base station (inclusive of tariff)			\$ -	Baltic Networks or ISP Supplies	
	\$ 1,000	\$ 1,000			8/18/2019
3.65 GHz BAICELLS-HALOB-1 BaiCells HaloB-1 Local EPC Feature Key			\$ -	Baltic Networks or ISP Supplies	
	\$ 85,750	\$ 42,875			8/18/2019
3.65 GHz Baicells Atom OD04-19.5 Baicells Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)			\$ 42,875	Baltic Networks or ISP Supplies	
	\$ 2,100	\$ 1,050			8/18/2019
3.65 GHz BAICELLS-SIMCARD BaiCells SIM cards			\$ 1,050	Baltic Networks or ISP Supplies	
	\$ 37,800	\$ 18,900			8/18/2019
3.65 GHz CBRS SAS License CBRS Spectrum Access System (SAS) Licensing Fee/unit for 3.65 GHz (\$3/mo for 36 months)			\$ 18,900	Google	
	\$ 4,133	\$ 2,066			8/18/2019
premise UB-AM Ubiquiti Airmax universal mounting bracket			\$ 2,066	Double Radius	
	\$ 13,775	\$ 6,888			8/18/2019
premise CPE Cabling/connectors Ethernet connectors, clips, tiewraps, outlet strips			\$ 6,888	Baltic Networks or ISP Supplies	
	\$ 22,040	\$ 11,020			8/18/2019
premise PL-R190WUSA-WW Cambium cnPilot R190W 802.11n 2.4GHz Home Router			\$ 11,020	Baltic Networks or ISP Supplies	
	\$ 700	\$ 700			8/18/2019
5 GHz HG3-TP-S90 RF Elements Horn Antenna w/Twist Port Adapter			\$ -	Baltic Networks or ISP Supplies	
	\$ 1,500	\$ 1,500			8/18/2019
5 GHz RP-5AC-Gen2 US Ubiquiti Prism Rocket Radios 5 GHz			\$ -	Baltic Networks or ISP Supplies	
	\$ 5,600	\$ 5,600			8/18/2019
5 GHz AF11 GHz Ubiquiti Air Fiber Licensed 11 GHz PtP link			\$ -	Baltic Networks or ISP Supplies	
	\$ 778	\$ 778			8/18/2019
5 GHz UH-TP-5-24 RF Elements Ultrahorn antenna TP 5-24			\$ -	Baltic Networks or ISP Supplies	
	\$ 532	\$ 532			8/18/2019
2.4 GHz AM-2G16-90 Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg			\$ -	Baltic Networks or ISP Supplies	
	\$ 356	\$ 356			8/18/2019
2.4 GHz ROCKETM2 Ubiquiti Rocket M2, 2.4 GHz radio			\$ -	Baltic Networks or ISP Supplies	
	\$ 19,899	\$ 9,950			8/18/2019
2.4 GHz NBE-2AC-13-US Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna			\$ 9,950	Baltic Networks or ISP Supplies	
Wi-Fi UAP-AC-M-PRO Unifi Mesh Pro Access Point			\$ 875	Baltic Networks or ISP Supplies	
	\$ 1,750	\$ 875			8/18/2019

CDBG Derivation of Cost

premise UB-AM Ubiquiti Airmax universal mounting bracket	\$ 3,278	\$ 1,639	\$ 1,639	Double Radius	8/18/2019
premise CPE Cabling/connectors Ethernet connectors, clips, tiewraps, outlet strips	\$ 10,925	\$ 5,463	\$ 5,463	Baltic Networks or ISP Supplies	8/18/2019
premise PL-R190WUSA-WW Cambium cnPilot R190W 802.11n 2.4GHz Home Router	\$ 17,480	\$ 8,740	\$ 8,740	Baltic Networks or ISP Supplies	8/18/2019
5 GHz HG3-TP-S90 RF Elements Horn Antenna w/Twist Port Adapter	\$ 175	\$ 175	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz RP-5AC-Gen2 US Ubiquiti Prism Rocket Radios 5 GHz	\$ 750	\$ 750	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz AF11 GHz Ubiquiti Air Fiber Licensed 11 GHz PtP link	\$ 5,600	\$ 5,600	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz UH-TP-5-24 RF Elements Ultrahorn antenna TP 5-24	\$ 778	\$ 778	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz AM-2G16-90 Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	\$ 133	\$ 133	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz ROCKETM2 Ubiquiti Rocket M2, 2.4 GHz radio	\$ 89	\$ 89	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz NBE-2AC-13-US Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	\$ 18,513	\$ 9,257	\$ 9,257	Baltic Networks or ISP Supplies	8/18/2019
Wi-Fi UAP-AC-M-PRO Unifi Mesh Pro Access Point	\$ 1,750	\$ 875	\$ 875	Baltic Networks or ISP Supplies	8/18/2019
core CCR1009-7G-1C-1S+ MikroTik Cloud Core Router	\$ 420	\$ 420	\$ -	Baltic Networks or ISP Supplies	8/18/2019
core ES-48-500W Ubiquiti Edgeswitch 500w managed POE gigabit switch	\$ 850	\$ 850	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower DC2021 Shireen 1000ft, Outdoor shielded Cat6	\$ 2,400	\$ 2,400	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower ETH-SP-G2 Ubiquiti ETH-SP Ethernet Surge Protector	\$ 100	\$ 100	\$ -	Amazon	8/18/2019
Tower ENC-STL-24x24x16 Tycon Power Weatherproof Steel Outdoor Enclosure	\$ 375	\$ 375	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower ENC-STL-RMK Rack mount system for Enclosure	\$ 50	\$ 50	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower RPST-POWERVENT-24 Tycon Power PowerVent System for enclosure	\$ 30	\$ 30	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower TPDIN-Monitor-WEB2 Tycon Power TPDIN PowerSens Remote Monitor Unit	\$ 160	\$ 160	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower CWT01-LL Valmont Site Pro Tower Mount	\$ 950	\$ 950	\$ -	Valmont	8/18/2019
Tower P2110 Valmont Site Pro Mount Poles	\$ 124	\$ 124	\$ -	Valmont	8/18/2019
Tower MER8-P Valmont H-frame rack mount hardware	\$ 565	\$ 565	\$ -	Valmont	8/18/2019
Tower UVC-G4-PRO IP Camera (PTZ, outdoor, zoom, 4MP)	\$ 450	\$ 450	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower PDUMH20HV Tripp Lite 3.2-3.8kw single-phase metered pdu	\$ 150	\$ 150	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower Misc Misc Tower components including ethernet connectors, clips, tiewraps, jumpers, terminal strips, etc.	\$ 1,200	\$ 1,200	\$ -	Based on experience. Ordered through Amaz	8/18/2019
Total before Shipping and taxes	\$ 161,714	\$ 90,866	\$ 70,848		8/18/2019
Shipping Shipping Allowance 4%	\$ 6,469	\$ 6,469	\$ -	estimated all parts	8/18/2019
Taxes Taxes Allowance 6% on equipment purchased	\$ 9,703	\$ 9,703	\$ -	estimated all parts	8/18/2019
Ware Neck: Equipment Total	\$ 177,885	\$ 107,037	\$ 70,848		8/18/2019
Tower Structural Analysis Complete analysis of antenna support structure	\$ 4,000	\$ 4,000	\$ -	Clark Nexsen or equivalent	8/18/2019
FCC 11 GHz licensing Fees to file and register 11 GHz link	\$ 3,600	\$ 3,600	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower Climbers Certified, insured, licensed professionals - 1 day + travel	\$ 6,000	\$ 6,000	\$ -	M&B Tower or Shenandoah Tower Service	8/18/2019
Tower Design Link Analysis, RF Propagation Analysis and Design	\$ 1,500		\$ 1,500	based on experience	8/18/2019
Electrician Fiber and Power cabling	\$ 1,200	\$ 1,200	\$ -	Sourced locally	8/18/2019
Tower Permits Tower Permitting Fee Estimate	\$ 500	\$ 500	\$ -	based on experience	8/18/2019
Configuration and Install Install, programming and config of all equipment	\$ 2,000	\$ 2,000	\$ -		8/18/2019
Total before taxes	\$ 18,800	\$ 17,300	\$ 1,500		8/18/2019
Taxes Allowance 6% on labor	\$ 1,128	\$ 1,128	\$ -	estimated all labor	8/18/2019
Ware Neck: Labor Total	\$ 19,928	\$ 18,428	\$ 1,500		8/18/2019
Tower Lease 3-year lease of the Suffolk owned tower (\$1000/mo)	\$ 36,000		\$ 36,000		8/18/2019
Electrical Usage 3-year lease of a 110v power outlet on a 20 amp circuit, backed up by generator (\$50/mo)	\$ 1,800		\$ 1,800		8/18/2019

CDBG Derivation of Cost

Ware Neck: Lease Total

\$	37,800	\$	-	\$	37,800		8/18/2019
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Ware Neck: Total Estimate for the Tower Site

\$	235,613	\$	125,465	\$	110,148		8/18/2019
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Petsworth Tower		Total	VATI	Non-VATI	Source of Estimate	Date
3.65 GHz AW3035-T0 Alpha Sector Antennas 3.65 65 degree	\$	1,680	\$ 1,680	\$ -	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz mBS1105 BaiCells eNB 3.65 base station (inclusove of tariff)	\$	15,996	\$ 15,996	\$ -	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz BAICELLS-HALOB-1 BaiCells HaloB-1 Local EPC Feature Key	\$	1,000	\$ 1,000	\$ -	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz Baicells Atom OD04-19.5 Baicells Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)	\$	55,125	\$ 27,563	\$ 27,563	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz BAICELLS-SIMCARD BaiCells SIM cards	\$	1,350	\$ 675	\$ 675	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz CBRS SAS License CBRS Spectrum Access System (SAS) Licensing Fee/unit for 3.65 GHz (\$3/mo for 36 months)	\$	24,300	\$ 12,150	\$ 12,150	Google	8/18/2019
premise UB-AM Ubiquiti Airmax universal mounting bracket	\$	2,055	\$ 1,028	\$ 1,028	Double Radius	8/18/2019
premise CPE Cabling/connectors Ethernet connectors, clips, tiewraps, outlet strips	\$	6,850	\$ 3,425	\$ 3,425	Baltic Networks or ISP Supplies	8/18/2019
premise PL-R190WUSA-WW Cambium cnPilot R190W 802.11n 2.4GHz Home Router	\$	10,960	\$ 5,480	\$ 5,480	Baltic Networks or ISP Supplies	8/18/2019
5 GHz HG3-TP-S90 RF Elements Horn Antenna w/Twist Port Adapter	\$	700	\$ 700	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz RP-5AC-Gen2 US Ubiquiti Prism Rocket Radios 5 GHz	\$	1,500	\$ 1,500	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz AF11 GHz Ubiquiti Air Fiber Licensed 11 GHz PtP link	\$	5,600	\$ 5,600	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz UH-TP-5-24 RF Elements Ultrahorn antenna TP 5-24	\$	778	\$ 778	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz AM-2G16-90 Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	\$	532	\$ 532	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz ROCKETM2 Ubiquiti Rocket M2, 2.4 GHz radio	\$	356	\$ 356	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz NBE-2AC-13-US Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	\$	4,851	\$ 2,426	\$ 2,426	Baltic Networks or ISP Supplies	8/18/2019
Wi-Fi UAP-AC-M-PRO Unifi Mesh Pro Access Point	\$	1,750	\$ 875	\$ 875	Baltic Networks or ISP Supplies	8/18/2019
core CCR1009-7G-1C-1S+ MikroTik Cloud Core Router	\$	420	\$ 420	\$ -	Baltic Networks or ISP Supplies	8/18/2019
core ES-48-500W Ubiquiti Edgeswitch 500w managed POE gigabit switch	\$	850	\$ 850	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower DC2021 Shireen 1000ft, Outdoor shielded Cat6	\$	4,320	\$ 4,320	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower ETH-SP-G2 Ubiquiti ETH-SP Ethernet Surge Protector	\$	240	\$ 240	\$ -	Amazon	8/18/2019
Tower ENC-STL-24x24x16 Tycon Power Weatherproof Steel Outdoor Enclosure	\$	375	\$ 375	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower ENC-STL-RMK Rack mount system for Enclosure	\$	50	\$ 50	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower RPST-POWERVENT-24 Tycon Power PowerVent System for enclosure	\$	30	\$ 30	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower TPDIN-Monitor-WEB2 Tycon Power TPDIN PowerSens Remote Monitor Unit	\$	160	\$ 160	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower CWT01-LL Valmont Site Pro Tower Mount	\$	1,900	\$ 1,900	\$ -	Valmont	8/18/2019
Tower P2110 Valmont Site Pro Mount Poles	\$	248	\$ 248	\$ -	Valmont	8/18/2019
Tower MER8-P Valmont H-frame rack mount hardware	\$	565	\$ 565	\$ -	Valmont	8/18/2019
Tower UVC-G4-PRO IP Camera (PTZ, outdoor, zoom, 4MP)	\$	450	\$ 450	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower PDUMH20HV Tripp Lite 3.2-3.8kw single-phase metered pdu	\$	150	\$ 150	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower Misc Misc Tower components including ethernet connectors, clips, tiewraps, jumpers, terminal strips, etc.	\$	1,200	\$ 1,200	\$ -	Based on experience. Ordered through Amaz	8/18/2019
Total before Shipping and taxes	\$	146,341	\$ 92,721	\$ 53,621		8/18/2019
Shipping Shipping Allowance 4%	\$	5,854	\$ 5,854	\$ -	estimated all parts	8/18/2019
Taxes Taxes Allowance 6% on equipment purchased	\$	8,780	\$ 8,780	\$ -	estimated all parts	8/18/2019
Petsworth: Equipment Total	\$	160,975	\$ 107,355	\$ 53,621		8/18/2019
Tower Structural Analysis Complete analysis of antenna support structure	\$	4,000	\$ 4,000	\$ -	Clark Nexsen or equivalent	8/18/2019
FCC 11 GHz licensing Fees to file and register 11 GHz link	\$	3,600	\$ 3,600	\$ -	Baltic Networks or ISP Supplies	8/18/2019

CDBG Derivation of Cost

Tower Climbers Certified, insured, licensed professionals - 2 days + travel	\$ 12,000	\$ 12,000	\$ -	M&B Tower or Shenandoah Tower Service	8/18/2019
Tower Design Link Analysis, RF Propagation Analysis and Design	\$ 1,500		\$ 1,500	based on experience	8/18/2019
Electrician Fiber and Power cabling	\$ 1,200	\$ 1,200	\$ -	Sourced locally	8/18/2019
Tower Permits Tower Permitting Fee Estimate	\$ 500	\$ 500	\$ -	based on experience	8/18/2019
Configuration and Install Install, programming and config of all equipment	\$ 4,000	\$ 4,000	\$ -		8/18/2019
Total before taxes	\$ 10,000	\$ 10,000	\$ -		8/18/2019
Taxes Allowance 6% on labor	\$ 36,800	\$ 35,300	\$ 1,500	estimated all labor	8/18/2019
Petsworth: Labor Total	\$ 2,208	\$ 2,208	\$ -		8/18/2019
	\$ 39,008	\$ 37,508	\$ 1,500		
Tower Lease 3-year lease of the water tower (\$250/mo)					8/18/2019
Electrical Usage 3-year lease of a 110v power outlet on a 20 amp circuit, backed up by generator (\$50/mo)	\$ 36,000		\$ 36,000		8/18/2019
Petsworth: Lease Total	\$ 1,800		\$ 1,800		8/18/2019
	\$ 37,800	\$ -	\$ 37,800		
Petsworth: Total Estimate for the Tower Site					8/18/2019
	\$ 237,783	\$ 144,863	\$ 92,921		
Dutton Tower	Total	VATI	Non-VATI	Source of Estimate	Date
3.65 GHz AW3035-T0 Alpha Sector Antennas 3.65 65 degree	\$ 1,680	\$ 1,680	\$ -	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz mBS1105 BaiCells eNB 3.65 base station (inclusove of tariff)	\$ 15,996	\$ 15,996	\$ -	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz BAICELLS-HALOB-1 BaiCells HaloB-1 Local EPC Feature Key	\$ 1,000	\$ 1,000	\$ -	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz Baicells Atom OD04-19.5 Baicells Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)	\$ 73,500	\$ 36,750	\$ 36,750	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz BAICELLS-SIMCARD BaiCells SIM cards	\$ 1,800	\$ 900	\$ 900	Baltic Networks or ISP Supplies	8/18/2019
3.65 GHz CBRS SAS License CBRS Spectrum Access System (SAS) Licensing Fee/unit for 3.65 GHz (\$3/mo for 36 months)	\$ 32,400	\$ 16,200	\$ 16,200	Google	8/18/2019
premise UB-AM Ubiquiti Airmax universal mounting bracket	\$ 3,345	\$ 1,673	\$ 1,673	Double Radius	8/18/2019
premise CPE Cabling/connectors Ethernet connectors, clips, tiwraps, outlet strips	\$ 11,150	\$ 5,575	\$ 5,575	Baltic Networks or ISP Supplies	8/18/2019
premise PL-R190WUSA-WW Cambium cnPilot R190W 802.11n 2.4GHz Home Router	\$ 17,840	\$ 8,920	\$ 8,920	Baltic Networks or ISP Supplies	8/18/2019
5 GHz HG3-TP-S90 RF Elements Horn Antenna w/Twist Port Adapter	\$ 700	\$ 700	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz RP-5AC-Gen2 US Ubiquiti Prism Rocket Radios 5 GHz	\$ 1,500	\$ 1,500	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz AF11 GHz Ubiquiti Air Fiber Licensed 11 GHz PtP link	\$ 5,600	\$ 5,600	\$ -	Baltic Networks or ISP Supplies	8/18/2019
5 GHz UH-TP-5-24 RF Elements Ultrahorn antenna TP 5-24	\$ 778	\$ 778	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz AM-2G16-90 Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	\$ 532	\$ 532	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz ROCKETM2 Ubiquiti Rocket M2, 2.4 GHz radio	\$ 356	\$ 356	\$ -	Baltic Networks or ISP Supplies	8/18/2019
2.4 GHz NBE-2AC-13-US Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	\$ 14,454	\$ 7,227	\$ 7,227	Baltic Networks or ISP Supplies	8/18/2019
Wi-Fi UAP-AC-M-PRO Unifi Mesh Pro Access Point	\$ 1,750	\$ 875	\$ 875	Baltic Networks or ISP Supplies	8/18/2019
core CCR1009-7G-1C-1S+ MikroTik Cloud Core Router	\$ 420	\$ 420	\$ -	Baltic Networks or ISP Supplies	8/18/2019
core ES-48-500W Ubiquiti Edgeswitch 500w managed POE gigabit switch	\$ 850	\$ 850	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower DC2021 Shireen 1000ft, Outdoor shielded Cat6	\$ 4,320	\$ 4,320	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower ETH-SP-G2 Ubiquiti ETH-SP Ethernet Surge Protector	\$ 240	\$ 240	\$ -	Amazon	8/18/2019
Tower ENC-STL-24x24x16 Tycon Power Weatherproof Steel Outdoor Enclosure	\$ 375	\$ 375	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower ENC-STL-RMK Rack mount system for Enclosure	\$ 50	\$ 50	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower RPST-POWERVENT-24 Tycon Power PowerVent System for enclosure	\$ 30	\$ 30	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower TPDIN-Monitor-WEB2 Tycon Power TPDIN PowerSens Remote Monitor Unit	\$ 160	\$ 160	\$ -	Baltic Networks or ISP Supplies	8/18/2019
Tower CWT01-LL Valmont Site Pro Tower Mount	\$ 1,900	\$ 1,900	\$ -	Valmont	8/18/2019
Tower P2110 Valmont Site Pro Mount Poles	\$ 248	\$ 248	\$ -	Valmont	8/18/2019
Tower MER8-P Valmont H-frame rack mount hardware	\$ 565	\$ 565	\$ -	Valmont	8/18/2019

CDBG Derivation of Cost

PM & Coordination Landfill	\$ 12,000	\$ -	\$ 12,000	based on experience	8/18/2019
PM & Coordination Ware Neck	\$ 12,000	\$ -	\$ 12,000	based on experience	8/18/2019
PM & Coordination Petsworth	\$ 12,000	\$ -	\$ 12,000	based on experience	8/18/2019
PM & Coordination Dutton Rd	\$ 12,000	\$ -	\$ 12,000	based on experience	8/18/2019
PM & Coordination Total	\$ 48,000	\$ -	\$ 48,000	based on experience	8/18/2019
Fiber and Datacenter bandwidth 3-years (\$3500/mo * 36)	\$ 126,000	\$ -	\$ 126,000	based on previous quotes	8/18/2019
New Tower - Ware Neck Tower	\$ 205,734	\$ 95,734	\$ 110,000	Design Nine	8/18/2019
New Tower - Petsworth Tower	\$ 205,734	\$ 95,734	\$ 110,000	Design Nine	8/18/2019
New Tower - Dutton Rd Tower	\$ 205,734	\$ 95,734	\$ 110,000	Design Nine	8/18/2019
New Tower Total	\$ 617,202	\$ 287,202	\$ 330,000		
Improvements - Landfill Tower	\$ 60,860	\$ 40,860	\$ 20,000	Design Nine	8/18/2019
Tower Improvements Total	\$ 60,860	\$ 40,860	\$ 20,000		
New neighborhood poles to mount antennas	\$ 137,900	\$ 137,900	\$ -	Design Nine	8/18/2019
(3) New poles for Public wifi access	\$ 24,000	\$ -	\$ 24,000	Open Broadband	8/18/2019
Public Wifi poles (3-years operation)	\$ 6,479	\$ -	\$ 6,479	Open Broadband	8/18/2019
Total Neighborhood Poles	\$ 168,379	\$ 137,900	\$ 30,479		
Grand Total *	\$ 2,087,357	\$ 1,082,217	\$ 1,005,140	see details above	8/18/2019

* Note - rounding caused \$1 difference

Attachment 12 –Documentation Supporting Project Costs

BaiCells eNB 3.65 base station (plus tariff)

The screenshot shows the IspSupplies website. The top navigation bar includes contact information (855-947-7776, sales@isp-supplies.com) and links for Contact Us, Reorder Items, Submit a Ticket, and Login. The main header features the IspSupplies logo and a search bar. Below the header, a breadcrumb trail reads: Home > BaiCells Nova Outdoor Base Station - LTE Release 9, 1 Watt (30 dBm), 2 Port, 3.5 GHz, Band 42/43.

The product page displays the BaiCells Nova Outdoor Base Station. The product title is "BaiCells Nova Outdoor Base Station - LTE Release 9, 1 Watt (30 dBm), 2 Port, 3.5 GHz, Band 42/43". The price is listed as \$3,199.20, with a crossed-out original price of \$3,999.00. The SKU is mBS1105, and the manufacturer is BaiCells. A "Data Sheet" download link is available. The availability is "14 In Stock (updated live)". An "Add to Cart" button is visible at the bottom of the product listing.

Related items include the "Amphenol Circular MIL Spec Connector OBTS 2 Way For BaiCells Base Station" priced at \$33.55.

Alpha Sector Antennas 3.65 65 degree

The screenshot shows the Baltic Networks website. The top navigation bar includes the company logo, phone number (888) 929-3610, and the tagline "Affordable Wireless Solutions". A search bar is present. The main navigation menu includes Home, Manufacturers, Complete Solutions, Network Components, and Resources.

The product page displays the AW3014-C2-T4 Alpha Wireless Sector Antenna. The product title is "AW3014-C2-T4 - Alpha Wireless 3.3 - 3.8GHz 18dBi Dual Slant 65deg Sector Antenna w/ 2x N-Female Connectors (4deg tilt)". The price is listed as \$355.00, with a "Login for discounted price" button. The availability is "Pre Order". A "pre-order" button is also visible.

Related products include the "Maxwave RF Patch Cable N-Male to N-Male (1m)" priced at \$9.95.

RF Specifications:

- Frequency Range: 3300 - 3800MHz
- Polarization: ±45° Slant Linear
- Gain: 18dBi
- Azimuth Beamwidth: 65°
- Azimuth Beam Squint: 3°
- Elevation Beamwidth: 7°
- Electrical Downtilt: 14°

BaiCells HaloB-1 Local EPC Feature Key

The screenshot shows the BaiCells website product page for the HaloB-1 Local EPC Feature Key. The page includes the company logo, contact information, and a search bar. The main product title is "BAICELLS-HALOB-1 - BaiCells HaloB-1 Local EPC Feature Key 1per eNb QTY 1". The price is listed as \$249.99, and the availability is "In stock". A detailed description explains that HaloB allows the eNodeB to continue servicing subscribers even when it has no connection to the Evolved Packet Core (EPC). The HaloB eNB eliminates the transport layer between the evolved packet core (EPC) and the eNB by embedding a "lite EPC" directly on the eNB. Therefore, critical control plane signaling is kept local. With HaloB installed, S1 (transport) failures are eliminated. This removes wireless PTP backhaul failures, fiber outages, or routing mistakes from causing customer service disruption. The page also lists related products, including the BaiCells Atom OD04-6.5 Gen2 3.5GHz Indoor CPE and the BaiCells Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE. A list of benefits for HaloB is provided, such as lower initial investment, simplified structure, self-congruence, and decoupled eNBs and core network functions.

Baicells Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)

The screenshot shows the ISP Supplies website product page for the BaiCells Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE. The page includes the company logo, contact information, and a search bar. The main product title is "BaiCells Atom OD04 3.5GHz 19.5dBi Gen2". The price is listed as \$199.99, with a tariff fee of \$34.37. The SKU is EG7035E-M11, and the manufacturer is BaiCells. The availability is "134 In Stock (updated live)". The page also features a "Add to Cart" button and an "Add to Wishlist" button. A large image of the outdoor CPE device is shown on the left side of the page.

BaiCells SIM cards

The screenshot shows a web browser window displaying the Baltic Networks website. The page title is "BaiCells SIM cards". The website header includes the Baltic Networks logo, contact information (888) 929-3610, and the tagline "Affordable Wireless Solutions". A search bar is visible. Below the header, there are navigation tabs: Home, Manufacturers, Complete Solutions, Network Components, and Resources. The search results show two items:

- BaiCells Sim Cards 100-Pack**: Price \$599.90. Description: "BaiCells SIM Cards come in packs of a 10. Useful if you need to set up an cellular network, for 3G/4G fallower, and for cell phones." A "BUY NOW" button is present.
- BaiCells SIM Card 10-Pack**: Price \$59.99. Description: "BaiCells SIM Cards come in packs of a 10. Useful if you need to set up an cellular network, for 3G/4G fallower, and for cell phones." A "BUY NOW" button is present.


The browser's taskbar at the bottom shows the time as 9:10 AM on 6/25/2019.

CBRS Spectrum Access System (SAS) Licensing Fee/unit for 3.65 GHz (\$3/mo for 36 months)

Spectrum Access System (SAS)

As the foundation for Google's [suite of products and services for CBRS](#), Google's Spectrum Access System (SAS) controls fundamental access to CBRS. Our SAS is purpose-built to support dense networks across operators and to scale on-demand - from a small in-building network to the largest nationwide deployment.

SAS Pricing

 For fixed wireless. \$2.25 per residence per month, taxes not included.

Ubiquiti Airmax universal mounting bracket

ISP Supplies

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Home > Ubiquiti UB-AM Universal Antenna Mount

UBIQUITI

Ubiquiti UB-AM Universal Antenna Mount

★ ★ ★ ★ ★ No Reviews yet

\$8.19 ~~\$9.95~~

SKU: UB-AM

Manufacturer: Ubiquiti Networks

Datasheet: [Download](#)

Availability: 546 In Stock (updated live)

1 **Add to Cart**

Related Items:

Laird Technologies UML Universal Mount (25" Long)

\$11.17

★ ★ ★ ★ ★

DOUBLERADIUS, INC. IS A 100% EMPLOYEE OWNED COMPANY!

HOME | MY ACCOUNT | MY CART | CHECKOUT | LOG OUT | BLOG | QUICK ORDER

AHORA HABLAMOS INGLÉS Y ESPAÑOL

DoubleRadius
Your Partner for Building Better Networks

Search

My Cart: 0

SHOP BRANDS | WIRELESS | NETWORKING | VIDEO | VOIP | INDUSTRIES SERVED | SERVICE CENTER | RESOURCE CENTER

Brands Sold in Store > Cambium Networks > WiFi >

CAMBium R190W 802.11N 2.4 GHZ WLAN ROUTER

SKU #: PL-R190WUSA-WW

Availability: **IN STOCK**

\$40.00

Qty: 1 **ADD TO CART**


Tell a friend about this product

PRODUCT DETAILS

RF Elements Horn Antenna w/Twist Port Adapter

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AHORA HABLAMOS INGLÉS Y ESPAÑOL




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Brands Sold in Store > RF elements > Horn Antennas >



RF ELEMENTS SYMMETRICAL HORN ANTENNA HG3-TP-S90

SKU #: HG3-TP-S90

Availability: **IN STOCK**

\$125.00

Qty: **ADD TO CART**

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MY CART
You have 0 item/s in your shopping cart.

PRODUCT DETAILS

Streakwave.com | https://mail-at: | Inbox - aftzpa: | Suffolk VATI G: | Slack | notific: | Amazon.com: | RF Elements Tw: | Search results: | Search Results: |


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Home > RF Elements TwistPort™ Adaptor for UBNT Rocket Sac Lite



ELEMENTS® RF Elements TwistPort™ Adaptor for UBNT Rocket Sac Lite

★★★★★ No Reviews yet.

\$24.06 ~~\$29.90~~

SKU: TPA-R5AC
Manufacturer: RF Elements
Data Sheet: [Download](#)

Availability: **57 In Stock** (updated live)

Add to Cart


Ubiquiti Prism Rocket Radios 5 GHz

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Home > Ubiquiti 5GHz Rocket ac Gen2 airPrism metal



UBIQUITI
Ubiquiti 5GHz Rocket ac Gen2 airPrism metal
★★★★★ No Reviews yet
\$229.37 ~~\$249.00~~
SKU: RP-5AC-GEN2-US
Manufacturer: Ubiquiti Networks
Data Sheet: [Download](#)
Quick Start Guide: [Download](#)
Availability: 181 In Stock (updated live)

Related Items:



Ubiquiti Nanobridge M9 Wireless Bridge
\$146.54
★★★★★

Type here to search 9:27 AM 8/25/2019


RF Elements Ultrahorn antenna TP 5-24

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Home > RF Elements UltraHorn TP 5-24 Ultimate Noise Rejecting Point-to-Point Antenna



ELEMENTS
RF Elements UltraHorn TP 5-24 Ultimate Noise Rejecting Point-to-Point Antenna
★★★★★ 1 Reviews
\$330.58 ~~\$389.00~~
SKU: UH-TP-5-24
Manufacturer: RF Elements
Data Sheet: [Download](#)
Availability: 118 In Stock (updated live)
(click to select)

Related Items:



RF Elements TwistPort Adaptor For Mimoso C5c
\$24.06
★★★★★

Type here to search 9:46 AM 8/25/2019

Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg

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UBIQUITI

Ubiquiti Airmax 2.3-2.7GHz Hi-Gain Base Station Antenna, Dual-Pol 90-Degree 16DBI

★★★★★ No Reviews yet

\$128.50 ~~\$199.00~~

SKU: AM-2G16-90


Manufacturer: Ubiquiti Networks

Datasheet: [Download](#)

Quick Start Guide: [Download](#)

Availability: 4 In Stock (updated live)

Related Items:



Ubiquiti RocketM2 Wireless AP, Outdoor 802.11b/g/n 600mW

\$80.95

★★★★★

Ubiquiti Rocket M2, 2.4 GHz radio

ISP Supplies


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Home > Ubiquiti RocketM2 Wireless AP, Outdoor 802.11b/g/n 600mW



UBIQUITI

Ubiquiti RocketM2 Wireless AP, Outdoor 802.11b/g/n 600mW

★★★★★ No Reviews yet

\$80.95 ~~\$89.00~~

SKU: RocketM2-US


Manufacturer: Ubiquiti Networks

Datasheet: [Download](#)

User Guide: [Download](#)

Availability: 24 In Stock (updated live)

Related Items:



Ubiquiti Airmax Cable IP67CA-RPSMA

\$7.52

★★★★★

Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna

The screenshot shows the IspSupplies website interface. At the top, there is a navigation bar with contact information (855-947-7776, sales@isp-supplies.com) and links for Contact Us, Reorder Items, Submit a Ticket, and Login. Below this is the IspSupplies logo and a search bar. A main navigation menu includes Shop By Category, Shop By Brands, Blog, Knowledge Base, Contact Us, Financing, Training & Events, Tech Support, and About Us. The breadcrumb trail reads: Home > Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna.

The product page features a large image of the white, spherical Ubiquiti airMax NanoBeam 2AC antenna. To the right of the image, the product title is "Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna" with a star rating of "No Reviews yet". The price is listed as **\$89.15** (original price ~~\$99.00~~). Below the price, the SKU is NBE-2AC-13-US, the manufacturer is Ubiquiti Networks, and there are links to download the User Guide and Quick Start Guide. The availability is "23 In Stock" (updated live). An "Add to Cart" button is visible at the bottom right of the product information.

Unifi Mesh Pro Access Point

The screenshot shows the IspSupplies website interface for the Ubiquiti Unifi Uap-Ac Mesh Pro 802.11Ac, 1750Mbps Outdoor AP. The layout is consistent with the previous screenshot, showing the website header, navigation menu, and breadcrumb trail: Home > Ubiquiti Unifi Uap-Ac Mesh Pro 802.11Ac, 1750Mbps Outdoor AP.

The product page features a large image of the white, rectangular Ubiquiti Unifi Uap-Ac Mesh Pro outdoor access point. To the right of the image, the product title is "Ubiquiti Unifi Uap-Ac Mesh Pro 802.11Ac, 1750Mbps Outdoor AP" with a star rating of "No Reviews yet". The price is listed as **\$171.00** (original price ~~\$499.00~~). Below the price, the SKU is UAP-AC-M-PRO-US, the manufacturer is Ubiquiti Networks, and there is a link to download the Data Sheet. The availability is "34 In Stock" (updated live). A "(click to select)" button is visible below the availability information. A banner for "UNIFI ELITE DEVICE LICENSE - TIER 1" is partially visible at the bottom of the product information area.

MikroTik Cloud Core Router

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Home > MikroTik Cloud Core Router CCR1009-7G-1C-1S+

MikroTik
MikroTik Cloud Core Router CCR1009-7G-1C-1S+
★★★★★ No Reviews yet

\$411.25 ~~\$495.00~~

SKU: CCR1009-7G-1C-1S+
Manufacturer: MikroTik
Data Sheet: [Download](#)
Quick Guide: [Download](#)
Block Diagram: [Download](#)
Availability: 4 In Stock (updated live)

Related Items:

MikroTik SFP (1.25G) Module, 20KM, Single Mode
\$20.58
★★★★★

Type here to search | 9:52 AM 8/25/2019

Ubiquiti Edgeswitch 500w managed POE gigabit switch

ISP Supplies

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Home > Ubiquiti 48-Port 500W Managed PoE+ Gigabit Switches With SFP

UBIQUITI
Ubiquiti 48-Port 500W Managed PoE+ Gigabit Switches With SFP
★★★★★ No Reviews yet

\$846.76 ~~\$899.00~~

SKU: ES-48-500W
Manufacturer: Ubiquiti Networks
Data Sheet: [Download](#)
Quick Start Guide: [Download](#)
Availability: 16 In Stock (updated live)

1 [Add to Cart](#)

Related Items:

MikroTik SFP (1.25G) Module, 20KM, Single Mode
\$20.58
★★★★★

Type here to search | 9:53 AM 8/25/2019

Shireen 1000ft, Outdoor shielded Cat6

The screenshot shows the IspSupplies website. The top navigation bar includes contact information (855-947-7776, sales@ispssupplies.com) and links for Contact Us, Reorder Items, Submit a Ticket, and Login. The main header features the IspSupplies logo and a search bar. Below the header is a menu with categories like Shop By Category, Shop By Brands, Blog, Knowledge Base, Contact Us, Financing, Training & Events, Tech Support, and About Us. The product page for 'Shireen 1000ft, Outdoor shielded Cat6' is displayed, featuring a large image of the product box. The product details include a price of \$168.33 (with a crossed-out price of \$264.66), a tariff fee of \$29.00, and a SKU of DC-2021. The manufacturer is listed as Shireen, and the availability is '13 In Stock (updated live)'. There are buttons for 'Add to Cart' and 'Add to Wishlist'. A 'Related Items' section shows a 'Primus Cable CAT6 Outdoor Cable, Direct Burial Shielded Ethernet With Waterblock Tape (1000ft)' for \$206.25. The Windows taskbar at the bottom shows the date as 8/25/2019 and the time as 9:54 AM.

Ubiquiti ETH-SP Ethernet Surge Protector

The screenshot shows the DoubleRadius website. The top navigation bar includes the DoubleRadius logo and a search bar. Below the header is a menu with categories like SHOP BRANDS, WIRELESS, NETWORKING, VIDEO, VOIP, INDUSTRIES SERVED, SERVICE CENTER, and RESOURCE CENTER. The product page for 'UBIQUITI ETHERNET SURGE PROTECTOR G2' is displayed, featuring a large image of the surge protector. The product details include a SKU of ETH-SP-G2, a price of \$10.81 (with a crossed-out price of \$12.50), and a quantity of 1. There is an 'ADD TO CART' button. The page also includes social media icons and a 'Tell a friend about this product' link. The Windows taskbar at the bottom shows the date as 8/25/2019 and the time as 10:01 AM.

Tycon Power Weatherproof Steel Outdoor Enclosure

The screenshot shows a web browser window displaying the product page for the Tycon Power Weatherproof Steel Outdoor Enclosure, 23x24x16. The browser's address bar shows the URL ispsupplies.com/Tycon-Power-ENC-STL-24x24x16. The page header includes the ISP Supplies logo, a search bar, and navigation links such as "Shop By Category", "Shop By Brands", "Blog", "Knowledge Base", "Contact Us", "Financing", "Training & Events", "Tech Support", and "About Us". The product image shows a white, rectangular outdoor enclosure with a door and a lock. The product details include the price of \$349.95, the SKU ENC-STL-24x24x16, the manufacturer Tycon Systems, and an availability of 5 units in stock. A "Related Items" section features a Netonix 12-Port Managed POE Switch, DC 250Watt for \$379.95. The Windows taskbar at the bottom shows the system time as 10:02 AM on 8/25/2019.

Rack mount system for Enclosure

The screenshot shows a web browser window displaying the product page for the Rack mount system for Tycon Systems ENC-STL-24x24x16. The browser's address bar shows the URL ispsupplies.com/rack-mount-for-tycon. The page header is identical to the previous screenshot. The product image shows two vertical, light-colored metal rack mount systems. The product details include the price of \$44.00 (reduced from \$47.50), the SKU ENC-STL-RMK, the manufacturer ISP Supplies, and an availability of 63 units in stock. An "Add to Cart" button is visible, along with an "Add to Wishlist" link. The Windows taskbar at the bottom shows the system time as 10:02 AM on 8/25/2019.

Tycon Power PowerVent System for enclosure

ispsupplies.com/Tycon-Power-rpst-powervent-24

855-947-7776 sales@ispsupplies.com Contact Us Reorder Items Submit a Ticket Login

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Home > Tycon Power PowerVent System for RPST (ENS-ST) enclosure, 12VDC/24VDC, 50C Thermostat

TYCON systems

Tycon Power PowerVent System for RPST (ENS-ST) enclosure, 12VDC/24VDC, 50C Thermostat

★★★★★ No Reviews yet

\$28.95
[Log in to see best price](#)

SKU: RPST-POWERVENT-24
Manufacturer: Tycon Systems
Data Sheet: [Download](#)
Availability: 4 In Stock (updated live)

1 [Add to Cart](#)

Type here to search

10:03 AM 8/25/2019

Tycon Power TPDIN PowerSens Remote Monitor Unit

ispsupplies.com/Tycon-Power-TPDIN-Monitor-WEB2

855-947-7776 sales@ispsupplies.com Contact Us Reorder Items Submit a Ticket Login

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Home > Tycon Power TPDIN PowerSens Remote Monitor and Control Unit, TPDIN2

TYCON systems

Tycon Power TPDIN PowerSens Remote Monitor and Control Unit, TPDIN2

★★★★★ No Reviews yet

\$159.95
[Log in to see best price](#)

SKU: TPDIN-Monitor-WEB2
Manufacturer: Tycon Systems
Data Sheet: [Download](#)
User Guide: [Download](#)
Availability: 11 In Stock (updated live)

Type here to search

10:04 AM 8/25/2019

Valmont Site Pro Tower Mount

The screenshot shows a web browser window displaying the Valmont Site Pro website. The browser's address bar shows the URL `sitepro1.com/store/cart.php?m=product_detail&p=2183`. The website header includes the Valmont Site Pro logo, navigation menus for "Get Started", "Products", "Resources", and "Company", and a search bar. The main content area features the product title "XLD WiMAX Tower Mounts (Standoff 16.5" Rd 2.5"-10.75" Ang 2"-8")". Below the title is a product image showing the tower mount hardware. To the right of the image, the price is listed as \$474.09, and there is a quantity selector set to 1 and an "Add to Cart" button. Further right, a "My Cart" summary shows a total of \$0.00 and a "Checkout" button. Below the cart is a "Quick Navigation" button. A "Need Assistance?" section provides contact information for support, including phone numbers (888-438-7761, 888-753-7446) and an email address (SP1Support@Valmont). A "Live Chat (Staff Offline)" button is also present. The Windows taskbar at the bottom shows the time as 10:05 AM on 8/25/2019.

Connect-H Wireless joins the Valmont Site Pro 1 family. [Learn more.](#)

View Cart | My Dashboard | Sign In

SITE PRO 1
A Valmont Company

Get Started | Products | Resources | Company | Search Products

XLD WiMAX Tower Mounts (Standoff 16.5" Rd 2.5"-10.75" Ang 2"-8")

Price: \$474.09

Qty: 1

[Add to Cart](#)

SKU: CWT01-LL
Size: 16-1/2" Stand Off

My Cart [Checkout](#)

Total: \$0.00

No items in your cart
Your cart is currently empty. As you add items, they will appear in your cart.

[Quick Navigation](#)

Need Assistance?
Our support team is available from 9am-8pm ET to answer any questions you may have.

888-438-7761
888-753-7446
SP1Support@Valmont

[Live Chat \(Staff Offline\)](#)

Type here to search | 10:05 AM 8/25/2019

Valmont H-frame rack mount hardware

The screenshot shows a web browser window displaying the Valmont Site Pro website. The browser's address bar shows the URL `sitepro1.com/store/cart.php?m=product_detail&p=3908`. The website header is identical to the previous screenshot. The main content area features the product title "Equipment Platform Equipment Rack (Direct Platform Attachment)". Below the title is a product image showing the H-frame rack hardware. To the right of the image, the price is listed as \$565.39, and there is a quantity selector set to 1 and an "Add to Cart" button. Further right, a "My Cart" summary shows a total of \$0.00 and a "Checkout" button. Below the cart is a "Quick Navigation" button. A "Need Assistance?" section provides contact information for support, including phone numbers (888-438-7761, 888-753-7446) and an email address (SP1Support@Valmont). A "Live Chat (Staff Offline)" button is also present. The Windows taskbar at the bottom shows the time as 10:10 AM on 8/25/2019.

Connect-H Wireless joins the Valmont Site Pro 1 family. [Learn more.](#)

View Cart | My Dashboard | Sign In

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Equipment Platform Equipment Rack (Direct Platform Attachment)

Price: \$565.39

Qty: 1

[Add to Cart](#)

SKU: MER8-P
Size: 8'

My Cart [Checkout](#)

Total: \$0.00

No items in your cart
Your cart is currently empty. As you add items, they will appear in your cart.

[Quick Navigation](#)

Need Assistance?
Our support team is available from 9am-8pm ET to answer any questions you may have.

888-438-7761
888-753-7446
SP1Support@Valmont

[Live Chat \(Staff Offline\)](#)

Type here to search | 10:10 AM 8/25/2019

IP Camera (PTZ, outdoor, zoom, 4MP)

The screenshot shows the DoubleRadius website. At the top, there's a navigation bar with links for HOME, MY ACCOUNT, MY CART, CHECKOUT, LOG OUT, BLOG, and QUICK ORDER. Below this is the DoubleRadius logo and a search bar. A red navigation bar contains categories like SHOP BRANDS, WIRELESS, NETWORKING, VIDEO, VOIP, INDUSTRIES SERVED, SERVICE CENTER, and RESOURCE CENTER. The main product page features a large image of the Ubiquiti UniFi Protect G4-Pro Camera. To the right of the image, the product name 'UBIQUITI UNIFI PROTECT G4-PRO CAMERA' and SKU '#: UVC-G4-PRO' are displayed. The price is listed as \$441.78. Below the price is a quantity selector set to '1' and an 'ADD TO CART' button. There are also social media sharing icons and a 'Tell a friend about this product' link. The bottom of the page shows a Windows taskbar with the date 8/25/2019 and time 10:11 AM.

Tripp Lite 3.2-3.8kw single-phase metered pdu

The screenshot shows the Amazon.com product page for a Tripp Lite Metered PDU. The product title is 'Tripp Lite Metered PDU, 20A, 10 Outlets (8 C13 & 2 C19), 200-240V, C20 / L6-20P Adapter, 12 ft. Cord, 1U Rack-Mount Power, TAA, 2 Year Warranty (PDUMH20HV)'. The price is \$134.95 with Prime and free returns. The page includes a large image of the PDU unit, a star rating of 4.5 from 25 reviews, and an 'Amazon's Choice' badge. Below the main image are several smaller thumbnail images. The product description lists features: 208/240 & 230V metered 1U horizontal mount Power Distribution Unit (PDU), 20A maximum capacity (Agency de-rated to 16A), includes L6-20P and C20 line cord options (detachable via C20 inlet), 10 total output receptacles (8 C13 and 2 C19), and outlets are arranged in a single unbreakered, metered load bank. The right side of the page shows the purchase options, including a quantity selector set to 1, an 'Add to Cart' button, and a 'Buy used' option for \$110.00. The bottom of the page shows a Windows taskbar with the date 8/25/2019 and time 10:12 AM.

		Total	VATI	Non VATI	OpenBB	Non VATI Gloucester	Source of Estimate	Non-Vati
Equipment (1-year)								
Landfill Tower	\$	248,107	\$ 155,358	\$	92,749	\$	0 OpenBB	\$ 92,749
Ware Neck Tower	\$	177,010	\$ 107,037	\$	69,973	\$	0 OpenBB	\$ 69,973
Petsworth Tower	\$	160,975	\$ 107,355	\$	53,621	\$	0 OpenBB	\$ 53,621
Dutton Rd Tower	\$	214,873	\$ 136,753	\$	78,120	\$	0 OpenBB	\$ 78,120
Equipment Total	\$	800,965	\$ 506,503	\$	294,462	\$	-	\$ 294,462
Construction Labor								
Landfill Tower	\$	28,408	\$ 26,908	\$	1,500	\$	0 OpenBB	\$ 1,500
Ware Neck Tower	\$	19,928	\$ 18,428	\$	1,500	\$	0 OpenBB	\$ 1,500
Petsworth Tower	\$	39,008	\$ 37,508	\$	1,500	\$	0 OpenBB	\$ 1,500
Dutton Rd Tower	\$	28,408	\$ 26,908	\$	1,500	\$	0 OpenBB	\$ 1,500
Labor Total	\$	115,752	\$ 109,752	\$	6,000	\$	-	\$ 6,000
Tower Lease (3-years)								
Landfill Tower	\$	37,800	\$ -	\$	1,800	\$	36,000 OpenBB	\$ 37,800
Ware Neck Tower	\$	37,800	\$ -	\$	1,800	\$	36,000 OpenBB	\$ 37,800
Petsworth Tower	\$	37,800	\$ -	\$	1,800	\$	36,000 OpenBB	\$ 37,800
Dutton Rd Tower	\$	36,800	\$ -	\$	1,800	\$	35,000 OpenBB	\$ 36,800
Tower Total	\$	150,200	\$ -	\$	7,200	\$	143,000	\$ 150,200
New Tower Cost								
New Tower - Ware Neck Tower	\$	205,734	\$ 95,734	\$	-	\$	110,000 DesignNine	\$ 110,000
New Tower - Petsworth Tower	\$	205,734	\$ 95,734	\$	-	\$	110,000 DesignNine	\$ 110,000
New Tower - Dutton Rd Tower	\$	205,734	\$ 95,734	\$	-	\$	110,000 DesignNine	\$ 110,000
New Tower Total	\$	617,202	\$ 287,202	\$	-	\$	330,000	\$ 330,000

Existing Tower Improvements

Improvements - Landfill Tower	\$	60,860	\$	40,860	\$	-	\$	20,000	DesignNine	\$	20,000
Tower Improvements Total	\$	60,860	\$	40,860	\$	-	\$	20,000		\$	20,000

New Neighborhood Poles

		Total		VATI		OpenBB		Gloucester			
New neighborhood poles to mount antennas	\$	137,900	\$	137,900	\$	-	\$	-	DesignNine	\$	-
(3) New poles for Public wifi access	\$	24,000			\$	12,000	\$	12,000	OpenBB	\$	24,000
Public Wifi poles (3-years operation)	\$	6,479			\$	6,479			OpenBB	\$	6,479
Total Neighborhood Poles	\$	168,379	\$	137,900	\$	18,479	\$	12,000		\$	30,479

Project Mgmt & Coordination (1-year)

		Total		VATI		OpenBB		Gloucester			
Landfill Tower	\$	12,000	\$	-	\$	6,000	\$	6,000	OpenBB	\$	12,000
Ware Neck Tower	\$	12,000	\$	-	\$	6,000	\$	6,000	OpenBB	\$	12,000
Petsworth Tower	\$	12,000	\$	-	\$	6,000	\$	6,000	OpenBB	\$	12,000
Dutton Rd Tower	\$	12,000	\$	-	\$	6,000	\$	6,000	OpenBB	\$	12,000
PM Total	\$	48,000	\$	-	\$	24,000	\$	24,000		\$	48,000

Fiber and Data Center BW (3-years)

		Total		VATI		OpenBB		Gloucester			
3-years (\$3500/mo * 36)	\$	126,000	\$	-	\$	126,000	\$	-	OpenBB	\$	126,000

		Total		VATI		OpenBB		Gloucester			
Grand Total	\$	2,087,358	\$	1,082,217	\$	476,141	\$	529,000		\$	1,005,141
				52%		23%		25%			

Location: Landfill Tower (owned by Gloucester Co)

Item	Description	Unit Cost	Quantity	Total	VATI	OpenBB	Gloucester	Source	Non-VATI
3.65 GHz	AW3035-TO	Alpha Sector Antennas 3.65 65 degree	4	\$ 1,680	\$ 1,680			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	mBS1105	BaiCells eNB 3.65 base station (Inclusove of tariff)	4	\$ 15,996	\$ 15,996			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	BAICELLS-HALOB-1	BaiCells HaloB-1 Local EPC Feature Key	4	\$ 1,000	\$ 1,000			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	Baiccels Atom OD04-19.5	Baiccels Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor	350	\$ 85,750	\$ 42,875	\$ 42,875.00		Baltic Networks or ISP Supplies	\$ 42,875
3.65 GHz	BAICELLS-SIMCARD	Baiccels SIM cards	350	\$ 2,100	\$ 1,050	\$ 1,050.00		Baltic Networks or ISP Supplies	\$ 1,050
3.65 GHz	CBRS SAS License	3.65 GHz (\$3/mo for 36 months)	350	\$ 37,800	\$ 18,900	\$ 18,900.00		Google	\$ 18,900
premise	UB-AM	Ubiquiti Airmax universal mounting bracket	551	\$ 4,133	\$ 2,066	\$ 2,066.25		Double Radius	\$ 2,066
premise	CPE Cabling/connectors	Ethernet connectors, clips, tiewraps, outlet strips	551	\$ 13,775	\$ 6,888	\$ 6,887.50		Baltic Networks or ISP Supplies	\$ 6,888
premise	PL-R190WUSA-WW	Cambium cnPilot R190W 802.11n 2.4GHz Home Router	551	\$ 22,040	\$ 11,020	\$ 11,020.00		Baltic Networks or ISP Supplies	\$ 11,020
5 GHz	HG3-TP-S90	RF Elements Horn Antenna w/Twist Port Adapter	4	\$ 700	\$ 700			Baltic Networks or ISP Supplies	\$ -
5 GHz	RP-SAC-Gen2 US	Ubiquiti Prism Rocket Radios 5 GHz	6	\$ 1,500	\$ 1,500			Baltic Networks or ISP Supplies	\$ -
5 GHz	AF11 GHz	Ubiquiti Air Fiber Licensed 11 GHz PTP link	2	\$ 5,600	\$ 5,600			Baltic Networks or ISP Supplies	\$ -
5 GHz	UH-TP-5-24	RF Elements Ultrahorn antenna TP 5-24	2	\$ 778	\$ 778			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	AM-2G16-90	Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	4	\$ 532	\$ 532			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	ROCKETM2	Ubiquiti Rocket M2, 2.4 GHz radio	4	\$ 356	\$ 356			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	NBE-2AC-13-US	Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	201	\$ 19,899	\$ 9,950	\$ 9,949.50		Baltic Networks or ISP Supplies	\$ 9,950
Wi-Fi	UAP-AC-M-PRO	Unifi Mesh Pro Access Point	10	\$ 1,750	\$ 875			Baltic Networks or ISP Supplies	\$ 875
core	CCR1009-7G-1C-15+	MikroTik Cloud Core Router	1	\$ 420	\$ 420			Baltic Networks or ISP Supplies	\$ -
core	ES-48-500W	Ubiquiti Edgeswitch 500w managed POE gigabit switch	1	\$ 850	\$ 850			Baltic Networks or ISP Supplies	\$ -
Tower	DC2021	Shireen 1000ft, Outdoor shielded Cat6	18	\$ 4,320	\$ 4,320			Baltic Networks or ISP Supplies	\$ -
Tower	ETH-SP-G2	Ubiquiti ETH-SP Ethernet Surge Protector	12	\$ 240	\$ 240			Amazon	\$ -
Tower	ENC-STL-24x24x16	Tycon Power Weatherproof Steel Outdoor Enclosure	1	\$ 375	\$ 375			Baltic Networks or ISP Supplies	\$ -
Tower	ENC-STL-RMK	Rack mount system for Enclosure	1	\$ 50	\$ 50			Baltic Networks or ISP Supplies	\$ -
Tower	RPST-POWERVENT-24	Tycon Power PowerVent System for enclosure	1	\$ 30	\$ 30			Baltic Networks or ISP Supplies	\$ -
Tower	TPDIN-Monitor-WEB2	Tycon Power TPDIN PowerSens Remote Monitor Unit	1	\$ 160	\$ 160			Baltic Networks or ISP Supplies	\$ -
Tower	CWT01-LL	Valmont Site Pro Tower Mount	4	\$ 1,900	\$ 1,900			Valmont	\$ -
Tower	P2110	Valmont Site Pro Mount Poles	4	\$ 248	\$ 248			Valmont	\$ -
Tower	MER8-P	Valmont H-frame rack mount hardware	1	\$ 565	\$ 565			Valmont	\$ -
Tower	UVC-G4-PRO	IP Camera (PTZ, outdoor, zoom, 4MP)	1	\$ 450	\$ 450			Baltic Networks or ISP Supplies	\$ -
Tower	PDU4M20HV	Tripp Lite 3.2-3.8kw single-phase metered pdu	1	\$ 150	\$ 150			Baltic Networks or ISP Supplies	\$ -
Tower	Misc	Misc Tower components including ethernet connectors, clips, tiewraps, jumpers, terminal strips, etc.	1	\$ 1,200	\$ 1,200			Based on experience. Ordered through Amazon or another source	\$ -
Shipping		Shipping Allowance 4%		\$ 9,054	\$ 9,054			estimated all parts	\$ -
Taxes		Taxes Allowance 6% on equipment purchased		\$ 13,581	\$ 13,581			estimated all parts	\$ -
		Equipment Total		\$ 248,981	\$ 155,358	\$ 92,749.00	\$ -		\$ 93,623
Tower Structural Analysis	Complete analysis of antenna support structure	\$ 4,000	1	\$ 4,000	\$ 4,000			Clark Nexsen or equivalent	\$ -
FCC 11 GHz licensing	Fees to file and register 11 GHz link	\$ 1,800	2	\$ 3,600	\$ 3,600			Baltic Networks or ISP Supplies	\$ -
Tower Climbers	Certified, insured, licensed professionals - 2 days + travel	\$ 12,000	1	\$ 12,000	\$ 12,000			M&B Tower or Shenandoah Tower Service	\$ -
Tower Design	Link Analysis, RF Propagation Analysis and Design	\$ 1,500	1	\$ 1,500		\$ 1,500		based on experience	\$ 1,500
Electrician	Fiber and Power cabling	\$ 1,200	1	\$ 1,200	\$ 1,200			Sourced locally	\$ -
Tower Permits	Tower Permitting Fee Estimate	\$ 500	1	\$ 500	\$ 500			based on experience	\$ -
Configuration and Install	Install, programming and config of all equipment	\$ 4,000	1	\$ 4,000	\$ 4,000				\$ -
	Total before taxes			\$ 26,800	\$ 25,300	\$ 1,500	\$ -		\$ 1,500
	Taxes Allowance 6% on labor			\$ 1,608	\$ 1,608			estimated all labor	\$ -
	Labor Total			\$ 28,408	\$ 26,908	\$ 1,500	\$ -		\$ 1,500
Tower Lease	3-year lease of the Gloucester owned tower (\$1000/mo)			\$ 36,000			\$ 36,000		\$ 36,000
Electrical Usage	3-year lease of a 110v power outlet on a 20 amp circuit, backed up by generator (\$50/mo)			\$ 1,800		\$ 1,800			\$ 1,800
	Lease Total			\$ 37,800	\$ -	\$ 1,800	\$ 36,000		\$ 37,800
	Total Estimate for the Tower Site			\$ 315,189	\$ 182,266	\$ 96,049	\$ 36,000		\$ 132,923
					58%	30%	11%		

Location: Ware Neck Tower (Proposed - owned by Gloucester)

Item	Description	Unit Cost	Quantity	Total	VATI	OpenBB	Gloucester	Source	Non-VATI
3.65 GHz	AW3035-TO	Alpha Sector Antennas 3.65 65 degree	1	\$ 420	\$ 420			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	mBS1105	BaiCells eNB 3.65 base station (Inclusove of tariff)	1	\$ 3,999	\$ 3,999			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	BAICELLS-HALO8-1	BaiCells Halo8-1 Local EPC Feature Key	1	\$ 250	\$ 250			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	Baiccels Atom OD04-19.5	Baiccels Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)	250	\$ 61,250	\$ 30,625	\$ 30,625		Baltic Networks or ISP Supplies	\$ 30,625
3.65 GHz	BAICELLS-SIMCARD	BaiCells SIM cards	6	\$ 1,500	\$ 750	\$ 750		Baltic Networks or ISP Supplies	\$ 750
3.65 GHz	CBRS SAS License	3.65 GHz (\$3/mo for 36 months)	250	\$ 27,000	\$ 13,500	\$ 13,500		Google	\$ 13,500
premise	UB-AM	Ubiquiti Airmax universal mounting bracket	437	\$ 3,278	\$ 1,639	\$ 1,639		Double Radius	\$ 1,639
premise	CPE Cabling/connectors	Ethernet connectors, clips, tiewraps, outlet strips	437	\$ 10,925	\$ 5,463	\$ 5,463		Baltic Networks or ISP Supplies	\$ 5,463
premise	PL-R190WUSA-WW	Cambium cnPilot R190W 802.11n 2.4GHz Home Router	437	\$ 17,480	\$ 8,740	\$ 8,740		Baltic Networks or ISP Supplies	\$ 8,740
5 GHz	HG3-TP-S90	RF Elements Horn Antenna w/Twist Port Adapter	1	\$ 175	\$ 175			Baltic Networks or ISP Supplies	\$ -
5 GHz	RP-SAC-Gen2 US	Ubiquiti Prism Rocket Radios 5 GHz	3	\$ 750	\$ 750			Baltic Networks or ISP Supplies	\$ -
5 GHz	AF11 GHz	Ubiquiti Air Fiber Licensed 11 GHz PTP link	2	\$ 5,600	\$ 5,600			Baltic Networks or ISP Supplies	\$ -
5 GHz	UH-TP-5-24	RF Elements Ultrahorn antenna TP 5-24	2	\$ 778	\$ 778			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	AM-2G16-90	Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	1	\$ 133	\$ 133			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	ROCKETM2	Ubiquiti Rocket M2, 2.4 GHz radio	1	\$ 89	\$ 89			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	NBE-2AC-13-US	Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	187	\$ 18,513	\$ 9,257	\$ 9,257		Baltic Networks or ISP Supplies	\$ 9,257
Wi-Fi	UAP-AC-M-PRO	Unifi Mesh Pro Access Point	10	\$ 1,750	\$ 875			Baltic Networks or ISP Supplies	\$ 875
core	CCR1009-7G-1C-15+	MikroTik Cloud Core Router	1	\$ 420	\$ 420			Baltic Networks or ISP Supplies	\$ -
core	ES-48-500W	Ubiquiti Edgeswitch 500w managed POE gigabit switch	1	\$ 850	\$ 850			Baltic Networks or ISP Supplies	\$ -
Tower	DC2021	Shireen 1000ft, Outdoor shielded Cat6	10	\$ 2,400	\$ 2,400			Baltic Networks or ISP Supplies	\$ -
Tower	ETH-SP-G2	Ubiquiti ETH-SP Ethernet Surge Protector	5	\$ 100	\$ 100			Amazon	\$ -
Tower	ENC-STL-24x24x16	Tycon Power Weatherproof Steel Outdoor Enclosure	1	\$ 375	\$ 375			Baltic Networks or ISP Supplies	\$ -
Tower	ENC-STL-RMK	Rack mount system for Enclosure	1	\$ 50	\$ 50			Baltic Networks or ISP Supplies	\$ -
Tower	RPST-POWERVENT-24	Tycon Power PowerVent System for enclosure	1	\$ 30	\$ 30			Baltic Networks or ISP Supplies	\$ -
Tower	TPDIN-Monitor-WEB2	Tycon Power TPDIN PowerSens Remote Monitor Unit	1	\$ 160	\$ 160			Baltic Networks or ISP Supplies	\$ -
Tower	CWT01-LL	Valmont Site Pro Tower Mount	2	\$ 950	\$ 950			Valmont	\$ -
Tower	P2110	Valmont Site Pro Mount Poles	2	\$ 124	\$ 124			Valmont	\$ -
Tower	MER8-P	Valmont H-frame rack mount hardware	1	\$ 565	\$ 565			Valmont	\$ -
Tower	UVC-G4-PRO	IP Camera (PTZ, outdoor, zoom, 4MP)	1	\$ 450	\$ 450			Baltic Networks or ISP Supplies	\$ -
Tower	PDU4020HV	Tripp Lite 3.2-3.8kw single-phase metered pdu	1	\$ 150	\$ 150			Baltic Networks or ISP Supplies	\$ -
Tower	Misc	Misc Tower components including ethernet connectors, clips, tiewraps, jumpers, terminal strips, etc.	1	\$ 1,200	\$ 1,200			Based on experience. Ordered through Amazon or another source	\$ -
		Total before Shipping and taxes		\$ 161,714	\$ 90,866	\$ 69,973	\$ -		\$ 70,848
Shipping		Shipping Allowance 4%		\$ 6,469	\$ 6,469			estimated all parts	\$ -
Taxes		Taxes Allowance 6% on equipment purchased		\$ 9,703	\$ 9,703			estimated all parts	\$ -
		Equipment Total		\$ 177,885	\$ 107,037	\$ 69,973	\$ -		\$ 70,848
Tower Structural Analysis	Complete analysis of antenna support structure	\$ 4,000	1	\$ 4,000	\$ 4,000			Clark Nexsen or equivalent	\$ -
FCC 11 GHz licensing	Fees to file and register 11 GHz link	\$ 1,800	2	\$ 3,600	\$ 3,600			Baltic Networks or ISP Supplies	\$ -
Tower Climbers	Certified, insured, licensed professionals - 1 day + travel	\$ 6,000	1	\$ 6,000	\$ 6,000			M&B Tower or Shenandoah Tower Service	\$ -
Tower Design	Link Analysis, RF Propagation Analysis and Design	\$ 1,500	1	\$ 1,500		\$ 1,500		based on experience	\$ 1,500
Electrician	Fiber and Power cabling	\$ 1,200	1	\$ 1,200	\$ 1,200			Sourced locally	\$ -
Tower Permits	Tower Permitting Fee Estimate	\$ 500	1	\$ 500	\$ 500			based on experience	\$ -
Configuration and Install	Install, programming and config of all equipment	\$ 2,000	1	\$ 2,000	\$ 2,000				\$ -
	Total before taxes			\$ 18,800	\$ 17,300	\$ 1,500	\$ -		\$ 1,500
	Taxes Allowance 6% on labor			\$ 1,128	\$ 1,128			estimated all labor	\$ -
	Labor Total			\$ 19,928	\$ 18,428	\$ 1,500	\$ -		\$ 1,500
Tower Lease	3-year lease of the Gloucester owned tower (\$1000/mo)			\$ 36,000			\$ 36,000		\$ 36,000
Electrical Usage	3-year lease of a 110v power outlet on a 20 amp circuit, backed up by generator (\$50/mo)			\$ 1,800		\$ 1,800			\$ 1,800
	Lease Total			\$ 37,800	\$ -	\$ 1,800	\$ 36,000		\$ 37,800
	Total Estimate for the Tower Site			\$ 235,613	\$ 125,465	\$ 73,273	\$ 36,000		\$110,148
					53%	31%	15%		

Location: **Petersworth Tower (Proposed - owned by Gloucester)**

Item	Description	Unit Cost	Quantity	Total	VATI	OpenBB	344+	Source	Non-VATI
3.65 GHz	AW3035-TO	Alpha Sector Antennas 3.65 65 degree	4	\$ 1,680	\$ 1,680			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	mBS1105	BaiCells eNB 3.65 base station (Inclusove of tariff)	4	\$ 15,996	\$ 15,996			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	BAICELLS-HALO8-1	BaiCells Halo8-1 Local EPC Feature Key	4	\$ 1,000	\$ 1,000			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	Baiccels Atom OD04-19.5	Baiccels Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)	225	\$ 55,125	\$ 27,563	\$ 27,563		Baltic Networks or ISP Supplies	\$ 27,563
3.65 GHz	BAICELLS-SIMCARD	BaiCells SIM cards	6	\$ 1,350	\$ 675	\$ 675		Baltic Networks or ISP Supplies	\$ 675
3.65 GHz	CBRS SAS License	3.65 GHz (\$3/mo for 36 months)	225	\$ 24,300	\$ 12,150	\$ 12,150		Google	\$ 12,150
premise	UB-AM	Ubiquiti Airmax universal mounting bracket	274	\$ 2,055	\$ 1,028	\$ 1,028		Double Radius	\$ 1,028
premise	CPE Cabling/connectors	Ethernet connectors, clips, tiewraps, outlet strips	25	\$ 274	\$ 6,850	\$ 3,425	\$ 3,425	Baltic Networks or ISP Supplies	\$ 3,425
premise	PL-R190WUSA-WW	Cambium cnPilot R190W 802.11n 2.4GHz Home Router	274	\$ 10,960	\$ 5,480	\$ 5,480		Baltic Networks or ISP Supplies	\$ 5,480
5 GHz	HG3-TP-S90	RF Elements Horn Antenna w/Twist Port Adapter	4	\$ 700	\$ 700			Baltic Networks or ISP Supplies	\$ -
5 GHz	RP-SAC-Gen2 US	Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	6	\$ 1,500	\$ 1,500			Baltic Networks or ISP Supplies	\$ -
5 GHz	AF11 GHz	Ubiquiti Air Fiber Licensed 11 GHz PTP link	2	\$ 5,600	\$ 5,600			Baltic Networks or ISP Supplies	\$ -
5 GHz	UH-TP-5-24	RF Elements Ultrahorn antenna TP 5-24	2	\$ 778	\$ 778			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	AM-2G16-90	Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	4	\$ 532	\$ 532			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	ROCKETM2	Ubiquiti Rocket M2, 2.4 GHz radio	4	\$ 356	\$ 356			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	NBE-2AC-13-US	Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	49	\$ 4,851	\$ 2,426	\$ 2,426		Baltic Networks or ISP Supplies	\$ 2,426
Wi-Fi	UAP-AC-M-PRO	Unifi Mesh Pro Access Point	10	\$ 1,750	\$ 875	\$ 875		Baltic Networks or ISP Supplies	\$ 875
core	CCR1009-7G-1C-15+	MikroTik Cloud Core Router	1	\$ 420	\$ 420			Baltic Networks or ISP Supplies	\$ -
core	ES-48-500W	Ubiquiti Edgeswitch 500w managed POE gigabit switch	1	\$ 850	\$ 850			Baltic Networks or ISP Supplies	\$ -
Tower	DC2021	Shireen 1000ft, Outdoor shielded Cat6	18	\$ 4,320	\$ 4,320			Baltic Networks or ISP Supplies	\$ -
Tower	ETH-SP-G2	Ubiquiti ETH-SP Ethernet Surge Protector	12	\$ 240	\$ 240			Amazon	\$ -
Tower	ENC-STL-24x24x16	Tycon Power Weatherproof Steel Outdoor Enclosure	1	\$ 375	\$ 375			Baltic Networks or ISP Supplies	\$ -
Tower	ENC-STL-RMK	Rack mount system for Enclosure	1	\$ 50	\$ 50			Baltic Networks or ISP Supplies	\$ -
Tower	RPST-POWERVENT-24	Tycon Power PowerVent System for enclosure	1	\$ 30	\$ 30			Baltic Networks or ISP Supplies	\$ -
Tower	TPDIN-Monitor-WEB2	Tycon Power TPDIN PowerSens Remote Monitor Unit	1	\$ 160	\$ 160			Baltic Networks or ISP Supplies	\$ -
Tower	CWT01-LL	Valmont Site Pro Tower Mount	4	\$ 1,900	\$ 1,900			Valmont	\$ -
Tower	P2110	Valmont Site Pro Mount Poles	4	\$ 248	\$ 248			Valmont	\$ -
Tower	MER8-P	Valmont H-frame rack mount hardware	1	\$ 565	\$ 565			Valmont	\$ -
Tower	UVC-G4-PRO	IP Camera (PTZ, outdoor, zoom, 4MP)	1	\$ 450	\$ 450			Baltic Networks or ISP Supplies	\$ -
Tower	PDUHM20HV	Tripp Lite 3.2-3.8kw single-phase metered pdu	1	\$ 150	\$ 150			Baltic Networks or ISP Supplies	\$ -
Tower	Misc	Misc Tower components including ethernet connectors, clips, tiewraps, jumpers, terminal strips, etc.	1	\$ 1,200	\$ 1,200			Based on experience. Ordered through Amazon or another source	\$ -
Shipping		Shipping Allowance 4%		\$ 5,854	\$ 5,854			estimated all parts	\$ -
Taxes		Taxes Allowance 6% on equipment purchased		\$ 8,780	\$ 8,780			estimated all parts	\$ -
		Equipment Total		\$ 160,975	\$ 107,355	\$ 53,621	\$ -		\$ 53,621
Tower Structural Analysis	Complete analysis of antenna support structure	\$ 4,000	1	\$ 4,000	\$ 4,000			Clark Nexsen or equivalent	\$ -
FCC 11 GHz licensing	Fees to file and register 11 GHz link	\$ 1,800	2	\$ 3,600	\$ 3,600			Baltic Networks or ISP Supplies	\$ -
Tower Climbers	Certified, insured, licensed professionals - 2 days + travel	\$ 12,000	1	\$ 12,000	\$ 12,000			M&B Tower or Shenandoah Tower Service	\$ -
Tower Design	Link Analysis, RF Propagation Analysis and Design	\$ 1,500	1	\$ 1,500		\$ 1,500		based on experience	\$ 1,500
Electrician	Fiber and Power cabling	\$ 1,200	1	\$ 1,200	\$ 1,200			Sourced locally	\$ -
Tower Permits	Tower Permitting Fee Estimate	\$ 500	1	\$ 500	\$ 500			based on experience	\$ -
Configuration and Install	Install, programming and config of all equipment	\$ 4,000	1	\$ 4,000	\$ 4,000				\$ -
Site Preparation	Clear trees, grub and grade site	\$ 10,000	1	\$ 10,000	\$ 10,000				\$ -
	Total before taxes			\$ 36,800	\$ 35,300	\$ 1,500	\$ -		\$ 1,500
	Taxes Allowance 6% on labor			\$ 2,208	\$ 2,208			estimated all labor	\$ -
	Labor Total			\$ 39,008	\$ 37,508	\$ 1,500	\$ -		\$ 1,500
Tower Lease	3-year lease of the tower (\$1000/mo)			\$ 36,000			\$ 36,000		\$ 36,000
Electrical Usage	3-year lease of a 110v power outlet on a 20 amp circuit, backed up by generator (\$50/mo)			\$ 1,800		\$ 1,800			\$ 1,800
	Lease Total			\$ 37,800	\$ -	\$ 1,800	\$ 36,000		\$ 37,800
	Total Estimate for the Tower Site			\$ 237,783	\$ 144,863	\$ 56,921	\$ 36,000		\$ 92,921
					61%	24%	15%		

Location: Dutton Rd Tower (Proposed - owned by Gloucester)

Item	Description	Unit Cost	Quantity	Total	VATI	OpenBB	Gloucetsesr	Source	Non-VATI
3.65 GHz	AW3035-TO	Alpha Sector Antennas 3.65 65 degree	4	\$ 1,680	\$ 1,680			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	mBS1105	BaiCells eNB 3.65 base station (Inclusove of tariff)	4	\$ 15,996	\$ 15,996			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	BAICELLS-HALOB-1	BaiCells HaloB-1 Local EPC Feature Key	4	\$ 1,000	\$ 1,000			Baltic Networks or ISP Supplies	\$ -
3.65 GHz	Baiccels Atom OD04-19.5	Baiccels Atom OD04-19.5 Gen2 3.5GHz 19.5dBi Outdoor CPE (inclusive of tariff)	300	\$ 73,500	\$ 36,750	\$ 36,750		Baltic Networks or ISP Supplies	\$ 36,750
3.65 GHz	BAICELLS-SIMCARD	BaiCells SIM cards	6	\$ 1,800	\$ 900	\$ 900		Baltic Networks or ISP Supplies	\$ 900
3.65 GHz	CBRS SAS License	3.65 GHz (\$3/mo for 36 months)	300	\$ 32,400	\$ 16,200	\$ 16,200		Google	\$ 16,200
premise	UB-AM	Ubiquiti Airmax universal mounting bracket	446	\$ 3,345	\$ 1,673	\$ 1,673		Double Radius	\$ 1,673
premise	CPE Cabling/connectors	Ethernet connectors, clips, tiewraps, outlet strips	446	\$ 11,150	\$ 5,575	\$ 5,575		Baltic Networks or ISP Supplies	\$ 5,575
premise	PL-R190WUSA-WW	Cambium cnPilot R190W 802.11n 2.4GHz Home Router	446	\$ 17,840	\$ 8,920	\$ 8,920		Baltic Networks or ISP Supplies	\$ 8,920
5 GHz	HG3-TP-S90	RF Elements Horn Antenna w/Twist Port Adapter	4	\$ 700	\$ 700			Baltic Networks or ISP Supplies	\$ -
5 GHz	RP-SAC-Gen2 US	Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	6	\$ 1,500	\$ 1,500			Baltic Networks or ISP Supplies	\$ -
5 GHz	AF11 GHz	Ubiquiti Air Fiber Licensed 11 GHz PTP link	2	\$ 5,600	\$ 5,600			Baltic Networks or ISP Supplies	\$ -
5 GHz	UH-TP-5-24	RF Elements Ultrahorn antenna TP 5-24	2	\$ 778	\$ 778			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	AM-2G16-90	Ubiquiti Airmax 2.4 ghz Sector, 16dbi, 90 deg	4	\$ 532	\$ 532			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	ROCKETM2	Ubiquiti Rocket M2, 2.4 GHz radio	4	\$ 356	\$ 356			Baltic Networks or ISP Supplies	\$ -
2.4 GHz	NBE-2AC-13-US	Ubiquiti airMax NanoBeam 2AC, 13 dBi MIMO antenna	146	\$ 14,454	\$ 7,227	\$ 7,227		Baltic Networks or ISP Supplies	\$ 7,227
Wi-Fi	UAP-AC-M-PRO	Unifi Mesh Pro Access Point	10	\$ 1,750	\$ 875	\$ 875		Baltic Networks or ISP Supplies	\$ 875
core	CCR1009-7G-1C-15+	MikroTik Cloud Core Router	1	\$ 420	\$ 420			Baltic Networks or ISP Supplies	\$ -
core	ES-48-500W	Ubiquiti Edgeswitch 500w managed POE gigabit switch	1	\$ 850	\$ 850			Baltic Networks or ISP Supplies	\$ -
Tower	DC2021	Shireen 1000ft, Outdoor shielded Cat6	18	\$ 4,320	\$ 4,320			Baltic Networks or ISP Supplies	\$ -
Tower	ETH-SP-G2	Ubiquiti ETH-SP Ethernet Surge Protector	12	\$ 240	\$ 240			Amazon	\$ -
Tower	ENC-STL-24x24x16	Tycon Power Weatherproof Steel Outdoor Enclosure	1	\$ 375	\$ 375			Baltic Networks or ISP Supplies	\$ -
Tower	ENC-STL-RMK	Rack mount system for Enclosure	1	\$ 50	\$ 50			Baltic Networks or ISP Supplies	\$ -
Tower	RPST-POWERVENT-24	Tycon Power PowerVent System for enclosure	1	\$ 30	\$ 30			Baltic Networks or ISP Supplies	\$ -
Tower	TPDIN-Monitor-WEB2	Tycon Power TPDIN PowerSens Remote Monitor Unit	1	\$ 160	\$ 160			Baltic Networks or ISP Supplies	\$ -
Tower	CWT01-LL	Valmont Site Pro Tower Mount	4	\$ 1,900	\$ 1,900			Valmont	\$ -
Tower	P2110	Valmont Site Pro Mount Poles	4	\$ 248	\$ 248			Valmont	\$ -
Tower	MER8-P	Valmont H-frame rack mount hardware	1	\$ 565	\$ 565			Valmont	\$ -
Tower	UVC-G4-PRO	IP Camera (PTZ, outdoor, zoom, 4MP)	1	\$ 450	\$ 450			Baltic Networks or ISP Supplies	\$ -
Tower	PDUHM20HV	Tripp Lite 3.2-3.8kw single-phase metered pdu	1	\$ 150	\$ 150			Baltic Networks or ISP Supplies	\$ -
Tower	Misc	Misc Tower components including ethernet connectors, clips, tiewraps, jumpers, terminal strips, etc.	1	\$ 1,200	\$ 1,200			Based on experience. Ordered through Amazon or another source	\$ -
		Total before Shipping and taxes		\$ 195,339	\$ 117,220	\$ 78,120	\$ -		\$ 78,120
Shipping		Shipping Allowance 4%		\$ 7,814	\$ 7,814			estimated all parts	\$ -
Taxes		Taxes Allowance 6% on equipment purchased		\$ 11,720	\$ 11,720			estimated all parts	\$ -
		Equipment Total		\$ 214,873	\$ 136,753	\$ 78,120	\$ -		\$ 78,120
Tower Structural Analysis	Complete analysis of antenna support structure	\$ 4,000	1	\$ 4,000	\$ 4,000			Clark Nexsen or equivalent	\$ -
FCC 11 GHz licensing	Fees to file and register 11 GHz link	\$ 1,800	2	\$ 3,600	\$ 3,600			Baltic Networks or ISP Supplies	\$ -
Tower Climbers	Certified, insured, licensed professionals - 2 days + travel	\$ 12,000	1	\$ 12,000	\$ 12,000			M&B Tower or Shenandoah Tower Service	\$ -
Tower Design	Link Analysis, RF Propagation Analysis and Design	\$ 1,500	1	\$ 1,500		\$ 1,500		based on experience	\$ 1,500
Electrician	Fiber and Power cabling	\$ 1,200	1	\$ 1,200	\$ 1,200			Sourced locally	\$ -
Tower Permits	Tower Permitting Fee Estimate	\$ 500	1	\$ 500	\$ 500			based on experience	\$ -
Configuration and Install	Install, programming and config of all equipment	\$ 4,000	1	\$ 4,000	\$ 4,000				\$ -
	Total before taxes			\$ 26,800	\$ 25,300	\$ 1,500	\$ -		\$ 1,500
	Taxes Allowance 6% on labor			\$ 1,608	\$ 1,608			estimated all labor	\$ -
	Labor Total			\$ 28,408	\$ 26,908	\$ 1,500	\$ -		\$ 1,500
New Tower	New 140' Rohn 45 tower			\$ 35,000			\$ 35,000	Shenandoah Tower Service	\$ 35,000
Electrical Usage	3-year lease of a 110v power outlet on a 20 amp circuit (\$50/mo)			\$ 1,800		\$ 1,800			\$ 1,800
	Lease Total			\$ 36,800	\$ -	\$ 1,800	\$ 35,000		\$ 36,800
	Total Estimate for the Tower Site			\$ 280,081	\$ 163,661	\$ 81,420	\$ 35,000		\$ 116,420
					58%	29%	12%		



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0026202879 | Data as of: Dec 31, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 7, 2019 16:52:56

Filer Identification

Section	Question	Response
Filer Information	Provider Name	Open Broadband, LLC
	Holding Company Name	Open Broadband, LLC
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Kent Winrich
	Data Contact Phone Number	(919) 924-3389
	Data Contact E-mail	kent@openbb.net
Emergency Operations Contact Information	Emergency Operations Name	Kent Winrich
	Emergency Operations Phone Number	(919) 924-3389
	Emergency Operations E-mail	kent@openbb.net
Certifying Official Contact Information	Certifying Official Name	Kent Winrich
	Certifying Official Phone Number	(919) 924-3389
	Certifying Official E-mail	kent@openbb.net

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	CompletedMerge.csv	Mar 7, 2019 16:46:28	11484
Fixed Broadband Subscription	TowerCoverage_477_Broadband_Subscriber_Data (2).csv	Mar 7, 2019 16:46:52	41

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
North Carolina	Open Broadband LLC	Terrestrial Fixed Wireless	11361
South Carolina	Open Broadband LLC	Terrestrial Fixed Wireless	123
Total			11484

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

Fixed Broadband Subscription

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
North Carolina	Terrestrial Fixed Wireless	41	107	20	127
Total		41	107	20	127

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
10.000	25.000	2	0	2
15.000	25.000	1	0	1
25.000	2.000	1	0	1
25.000	25.000	52	10	62
25.000	60.000	0	1	1
50.000	50.000	42	3	45
60.000	60.000	3	0	3
75.000	75.000	1	0	1
100.000	100.000	5	2	7
200.000	200.000	0	2	2
1000.000	1000.000	0	2	2
Total		107	20	127

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Terrestrial Fixed Wireless	10.000	25.000	2	0	2
	15.000	25.000	1	0	1
	25.000	2.000	1	0	1
	25.000	25.000	52	10	62
	25.000	60.000	0	1	1
	50.000	50.000	42	3	45
	60.000	60.000	3	0	3
	75.000	75.000	1	0	1
	100.000	100.000	5	2	7
	200.000	200.000	0	2	2
	1000.000	1000.000	0	2	2
Total			107	20	127

Office of
Gloucester-Mathews Gazette-Journal

GLOUCESTER, VA 23061 July 11, 2019

I hereby certify that the annexed order of publication appeared for one
successive issues in the Gloucester-Mathews Gazette-Journal, commencing with the issue
of July 11, 2019 and ending with that of July 11, 2019.

Charged.....\$ 125.00

C. R. Rouse

Treasurer

Bill mailed to Gloucester County Administrator

**GLOUCESTER COUNTY BOARD OF SUPERVISORS
NOTICE OF AND REQUEST FOR PUBLIC COMMENT**

Virginia Telecommunications Initiative (VATI) 2020 Application;

Effective immediately, notice is hereby given that the Gloucester County Board of Supervisors is requesting public comment on the proposed Virginia Telecommunications Initiative (VATI) Grant Application for 2020. Comments will be accepted from July 15 through July 31, 2019.

Background / Summary:

The Virginia Department of Housing and Community Development (DHCD) has announced a competitive grant and application process to award \$19 million to eligible applicants to provide last-mile services to unserved areas in the Commonwealth. The primary objective of the VATI is to provide financial assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that are presently unserved by any broadband provider. Unserved areas are defined as having broadband speeds of less than 10 Mbps download and 1 Mbps upload or less. In addition, a proposed project area is considered eligible if 10% or less of serviceable units have access to service with no additional special construction costs from any provider as of the date of the application for the proposed project areas. Applications must be submitted by a unit of government (Towns, Cities, Counties, EDA/IDA, Broadband/Wireless Authorities, Planning District Commissions, etc.) with a private sector provider(s) as a co-applicant. Cox Communications has agreed to collaborate as the private provider partner in the proposed project. Public comment is encouraged.

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COMMENT SUBMITTAL

Junior softball goes 1-2 in state tournament

The combined Mathews-Middlesex junior softball team's hopes of being crowned Virginia champions fell short this past weekend, with the squad going 1-2 in the state Little League tournament.

The tournament was hosted by District 15 and the Caroline County Little League. The Mathews-Middlesex team, winners of the District 15 tournament the previous week, faced another combined squad, District 11 champs Tazewell-Lebanon-Richlands, in Saturday's opening round.

The local girls fell to Tazewell-Lebanon-Richlands, the eventual state tournament champions, by a 16-6 margin. The loss dropped the Mathews and Middlesex girls into the lower bracket, one loss away from elimination.

On Sunday morning, the girls took on Woodstock, crushing the Division 3 champs by a 12-1 margin immediately after that game, the girls were back on the diamond to face Madison County in a close contest. Mathews-Middlesex led the entire way until Madison came back to pull it out in the seventh inning, 9-7.

Morgan Crittenden led the Mathews-Middlesex offense in the state tournament, batting .750 with six hits, two RBIs, drawing two walks and stealing a base. Autumn Jackson batted .500 with three hits and two RBIs. Ella Hoag es hit .000 with four hits and three RBIs. Crittenden and Hoag es were the only players to hit doubles. As a team, the Mathews-Middlesex girls batted .270 with an on-base percentage of .402.

State tournament begins Friday for 13-15 squad

The Gloucester 12U team was not the only Gloucester Youth Baseball squad who found success this past season, as the 13-15 year-old baseball team also won its district tournament and will play in the state tournament beginning on Friday, the team and head coach Billy Smith will suit up in Arlington to begin their state title chase.

Gloucester received a bracketing by the office at 6189 Main Street, Suite 303 for online registration, visit rfitips.org/gloUCESTERVA.INFO.

Gloucester PR&T basketball camp to be held July 22-25

The sign-up deadline is approaching for the Gloucester Parks, Recreation and Tourism basketball camp.

The camp, for ages 6-9, will be held from 8:30-9:45 a.m. the week of July 22-25 at the Boatwright Elementary School gym, Friday, July 19, is the deadline to register; the fee is \$50. Participants should bring a 28.5-size basketball. Billy Moore, along with several volunteers, will lead the camp.

FALL SOCCER: Gloucester PR&T is offering fall soccer for ages 5-14. There is a \$5 discount on the registration fee if you register by July 21, after that date the fee is \$14 until the Aug. 4 registration deadline. Fall soccer begins in late August and ends in early November.

For more information on these and other activities call PR&T at 804-693-2355, email pet@gloUCESTERVA.INFO

at stop by the office at 6189 Main Street, Suite 303 for online registration, visit rfitips.org/gloUCESTERVA.INFO.

The sign-up deadline is approaching for the Gloucester Parks, Recreation and Tourism basketball camp.

The sign-up deadline is approaching for the Gloucester Parks, Recreation and Tourism basketball camp.

For more information on these and other activities call PR&T at 804-693-2355, email pet@gloUCESTERVA.INFO

Gloucester 12U team punches regional ticket

BY PETER J. STANGE



Colby Collins, Cedric Simkes, Hayden Sammons and Tyler Jackson, from left, in the dugout during this past weekend's state tournament.

The members of the Gloucester Youth Baseball 12U baseball team left no doubt that they were the Real Ruth League State Champion this past weekend as they thrashed their competition by double-digit margins in every matchup of tournament in Glen Allen.

The young sluggers will now advance to the regional tournament, where they have the opportunity to punch their ticket to the Cal Ripken League World Series.

Gloucester enjoyed a first-round bye before taking on Glen Allen, which it promptly shut out on Friday for the score of 10-0. The home nine then advanced to take on Arlington, which had soundly defeated Lakeside, 6-1, in the first round.

Though Arlington was able to plate five runs, it was soundly defeated by a strong showing from the Gloucester offense in a 16-5 rout on Saturday. Arlington won the consolation bracket and earned another shot in the title game but again incurred a loss, this time by a score of 12-1.

Grayson Sherkliff was named tournament MVP and, per assistant coach Brian Decker, was a major contributor to the offense. "Grayson was just clutch," Decker said. "He did what he needed to do hitting the ball where the other team wasn't."

On the mound, Austin Shackleton nearly shut out Arlington, allowing a lone run and throwing a complete game. "He just completely dominated from the mound," Decker said.

From here, the team will advance to regionals which are held in Frederickburg beginning July 17. Teams from across the southeast, including Florida, Tennessee, Alabama and both Carolinas will travel for the tournament. Though the structure of the tournament (double versus single elimination) is not yet known, the winner will advance to the Cal Ripken

League World Series to be held in California.

"We've got to dominate in order to get to California for the Cal Ripken World Series," said Decker, "but I think our chances are good. The assistant coach pointed in the district tournament performance as evidence that the team can overcome adversity."

Gloucester actually lost its first game in the districts to Williamsburg and knew that if it did make the title game, it would need to defeat Wil-

liamsburg twice to advance.

Gloucester ended up meeting Williamsburg again in the title game, winning the first matchup to force a tiebreaker. "It was one of the best games, little league or college, that we've ever seen," said Decker. "It was a 10-0 game going into the bottom of the sixth. Gloucester loaded the bases and drove in the winning run to advance to the state level, where they would go on to dominate."

"As far as where we go from here, I think our chances are

great," said Decker. "These kids have just come together so well... they're starting to know each other to the point of knowing what each other is going to do in certain situations."

Decker said he left the team was cohesive and has the right mindset to achieve victory. "There are no players on this team who think they are more valuable than the others, and at this level that's just a great thing."

"As far as where we go from here, I think our chances are

Lady Dukes to hold basketball camp in August

The Lady Dukes basketball team of Gloucester High School will host a basketball camp for rising seventh through ninth graders the week of Aug. 5-9 from 6 to 8 each evening. The camp will feature instruction and drills with the varsity team, as well as coaches from both the varsity and JV teams.

"We work on technique and fundamentals of things like shooting form, defense, passing, and ball handling,"

said Lady Dukes head coach Amy O'Neil. Camp cost is \$50 and covers the entire camp plus a t-shirt for participants.

Athletes who attended the previous June camp can register for the August camp on half price.

"I feel like it's necessary to have something to teach at a younger age, the foundation of the game instead of having kids walk in the door at the JV or varsity level and try to learn the game of basketball."

O'Neil said of the purpose of the camp.

"We started these camps five years ago," she said, "because I knew there was nothing else over here for younger girls... it inspires all of us that this could become something bigger in the future."

Instructing this camp serves as the informal end of the offseason for O'Neil's own team. Following this camp, the Lady Dukes will

begin preseason activities including team workouts, attending camps as a squad, and eventual participation in the "Fall League," a preseason league of area schools across multiple districts.

The Lady Dukes graduated one senior last year and will return nearly their entire roster. O'Neil said last week that the coaching staff will aim to

keep 10 or 11 players on the roster.

Guard Krystal Kryen and forward/center Lauren Hall are expected to be big contributors this season. "I know they are really excited to get out there," O'Neil said of the Lady Dukes. "They feel like this can be a year they do something."

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GLOUCESTER COUNTY BOARD OF SUPERVISORS
NOTICE OF AND REQUEST FOR PUBLIC COMMENT
Virginia Telecommunications Initiative (VATI) 2010 Application
Effective immediately notice is hereby given that the Gloucester County Board of Supervisors is requesting public comment on the proposed Virginia Telecommunications Initiative (VATI) Grant Application for 2010. Comments will be accepted from July 15 through July 31, 2010.
Background Summary
The Virginia Department of Housing and Community Development (DHCD) has announced a competitive grant and application process to award \$10 million in eligible applications to provide last-mile services to unserved areas in the Commonwealth. The primary objective of the VATI is to provide financial assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that are presently unserved by any broadband provider. Unserved areas are defined as having broadband speeds of less than 10 Mbps download and 1 Mbps upload or less. In addition, a proposed project area is considered eligible if 10% or less of serviceable units have access to service with no additional special construction costs from any provider as of the date of the application for the proposed project areas. Applications must be submitted by a unit of government (Towns, Cities, Counties, EMA, IDA, Broadband Wireless Authorities, Planning District Commissions, etc.) with a private sector provider(s) as a co-applicant. Cox Communications has agreed to collaborate as the private provider partner in the proposed project. Public comment is encouraged.
COMMENT SUBMITTAL
Name: _____
Department of Community Engagement
E-mail: clw@GLOUCESTERVA.INFO
6467 Main Street, Gloucester, VA 23061
Department Hours: 8 am to 4:30 pm
Phone: 804-694-5738 (for direct comment or to request assistance)
TTY/Voice: 1-800-877-4338

	FULLADDR	ZIPCODE	Cox Service Status	Zone ID
1	12032 Salem Church Rd	23061	No Access	1
2	12086 Salem Church Rd	23061	No Access	1
3	11616 Salem Church Rd	23061	No Access	1
4	11668 Salem Church Rd	23061	No Access	1
5	11664 Salem Church Rd	23061	No Access	1
6	4869 Turks Ferry Rd	23061	No Access	1
7	5243 Turks Ferry Rd	23061	No Access	1
8	5047 Turks Ferry Rd	23061	No Access	1
9	11899 South Grimes Ln	23061	No Access	1
10	11875 South Grimes Ln	23061	No Access	1
11	4953 Turks Ferry Rd	23061	No Access	1
12	4835 Turks Ferry Rd	23061	No Access	1
13	11408 Salem Church Rd	23061	No Access	1
14	4634 Turks Ferry Rd	23061	No Access	1
15	4521 Pampa Rd	23061	Has Access	1
16	4882 Turks Ferry Rd	23061	No Access	1
17	4763 Turks Ferry Rd	23061	No Access	1
18	4817 Turks Ferry Rd	23061	No Access	1
19	12295 Rilees Farm Rd	23061	No Access	1
20	12146 Rilees Farm Rd	23061	No Access	1
21	5231 Owl Ridge Rd	23061	No Access	1
22	5310 Owl Ridge Rd	23061	No Access	1
23	5228 Owl Ridge Rd	23061	No Access	1
24	5272 Owl Ridge Rd	23061	No Access	1
25	12486 Belleview Rd	23061	No Access	1
26	12512 Belleview Rd	23061	No Access	1
27	5031 Glenns Rd	23061	No Access	1
28	12036 Rilees Farm Rd	23061	No Access	1
29	12143 Rilees Farm Rd	23061	No Access	1
30	12188 Rilees Farm Rd	23061	No Access	1
31	4802 Glenns Rd	23061	No Access	1
32	4830 Glenns Rd	23061	No Access	1
33	4834 Glenns Rd	23061	Has Access	1
34	4836 Glenns Rd	23061	No Access	1
35	4839 Glenns Rd	23061	No Access	1
36	4847 Glenns Rd	23061	No Access	1
37	12375 Rilees Farm Rd	23061	No Access	1
38	12390 Rilees Farm Rd	23061	No Access	1
39	12417 Salem Church Rd	23061	No Access	1
40	12582 Belleview Rd	23061	No Access	1
41	12642 Point Of View Ln	23061	No Access	1
42	12666 Belleview Rd	23061	No Access	1
43	12692 Belleview Rd	23061	No Access	1
44	12550 Belleview Rd	23061	No Access	1
45	4734 Glenns Rd	23061	No Access	1
46	4618 Glenns Rd	23061	Has Access	1

47	4599 Glenns Rd	23061 No Access	1
48	4644 Glenns Rd	23061 No Access	1
49	4628 Glenns Rd	23061 Has Access	1
50	4704 Glenns Rd	23061 No Access	1
51	4530 Glenns Rd	23061 No Access	1
52	12614 Salem Church Rd	23061 No Access	1
53	4905 Turks Ferry Rd	23061 No Access	1
54	11828 Salem Wood Rd	23061 No Access	1
55	11801 Salem Wood Rd	23061 No Access	1
56	12650 Belleview Rd	23061 No Access	1
57	12397 Rilees Farm Rd	23061 No Access	1
58	11808 Salem Wood Rd	23061 No Access	1
59	5182 Owl Ridge Rd	23061 No Access	1
60	4921 Turks Ferry Rd	23061 No Access	1
61	4924 Glenns Rd	23061 No Access	1
62	4488 Glenns Rd	23061 No Access	1
63	12526 Rilees Farm Rd	23061 Has Access	1
64	12398 Salem Church Rd	23061 No Access	1
65	12567 Salem Church Rd	23061 No Access	1
66	4783 Turks Ferry Rd	23061 No Access	1
67	12293 Rilees Farm Rd	23061 No Access	1
68	4602 Hunny Pot Ln	23061 No Access	1
69	4646 Hunny Pot Ln	23061 No Access	1
70	11837 Salem Wood Rd	23061 No Access	1
71	11867 Salem Church Rd	23061 No Access	1
72	12633 Point Of View Ln	23061 No Access	1
73	11451 Salem Church Rd	23061 No Access	1
74	4815 Hunny Pot Ln	23061 No Access	1
75	12453 Rilees Farm Rd	23061 No Access	1
76	4690 Glenns Rd	23061 No Access	1
77	11878 Salem Church Rd	23061 No Access	1
78	4827 Glenns Rd	23061 No Access	1
79	4872 Hunny Pot Ln	23061 No Access	1
80	12480 Belleview Rd	23061 No Access	1
81	4613 Pampa Rd	23061 Has Access	1
82	11359 Salem Church Rd	23061 No Access	1
83	4682 Hunny Pot Ln	23061 No Access	1
84	11846 Salem Church Rd	23061 No Access	1
85	11753 Salem Wood Rd	23061 No Access	1
86	11753 Salem Church Rd	23061 No Access	1
87	11487 Salem Church Rd	23061 No Access	1
88	12090 Salem Church Rd	23061 No Access	1
89	11719 Salem Church Rd	23061 No Access	1
90	11797 Salem Church Rd	23061 No Access	1
91	4935 Turks Ferry Rd	23061 No Access	1
92	11647 Salem Church Rd	23061 No Access	1
93	11789 Salem Church Rd	23061 No Access	1

94	4876 Glenns Rd	23061 No Access	1
95	4887 Turks Ferry Rd	23061 No Access	1
96	12563 Salem Church Rd	23061 Has Access	1
97	4734 Hunny Pot Ln	23061 No Access	1
98	11543 Salem Wood Rd	23061 No Access	1
99	11847 Salem Church Rd	23061 No Access	1
100	11710 Salem Wood Rd	23061 No Access	1
101	4560 Glenns Rd	23061 No Access	1
102	11541 Salem Wood Rd	23061 No Access	1
103	5314 Owl Ridge Rd	23061 No Access	1
104	4703 Turks Ferry Rd	23061 No Access	1
105	4664 Glenns Rd	23061 No Access	1
106	4788 Glenns Rd	23061 No Access	1
107	11872 Salem Church Rd	23061 No Access	1
108	12111 Rilees Farm Rd	23061 No Access	1
109	12386 Belleview Rd	23061 No Access	1
110	11683 Salem Church Rd	23061 No Access	1
111	11881 Salem Church Rd	23061 No Access	1
112	4942 Glenns Rd	23061 No Access	1
113	11625 Salem Church Rd	23061 No Access	1
114	12424 Salem Church Rd	23061 Has Access	1
115	4749 Glenns Rd	23061 No Access	1
116	12288 Rilees Farm Rd	23061 No Access	1
117	11543 Lee Rd	23149 No Access	2
118	11548 Lee Rd	23149 No Access	2
119	2878 Lees Neck Farm Rd	23149 No Access	2
120	2809 Lees Neck Farm Rd	23149 No Access	2
121	2738 Lees Neck Farm Rd	23149 No Access	2
122	11584 Mitchell Rd	23149 No Access	2
123	2824 Lees Neck Farm Rd	23149 No Access	2
124	2734 Lees Neck Farm Rd	23149 No Access	2
125	3181 Lees Neck Farm Rd	23149 No Access	2
126	3212 Lees Neck Farm Rd	23149 No Access	2
127	12011 Bland Hills Ln	23149 No Access	2
128	11979 Bland Hills Ln	23149 No Access	2
129	3689 Getaway Ln	23149 No Access	2
130	3599 Getaway Ln	23149 No Access	2
131	3666 Getaway Ln	23149 No Access	2
132	13846 George Washington Me	23149 No Access	2
133	13864 George Washington Me	23149 No Access	2
134	13908 George Washington Me	23149 No Access	2
135	13827 George Washington Me	23149 No Access	2
136	13843 George Washington Me	23149 No Access	2
137	13804 George Washington Me	23149 No Access	2
138	13802 George Washington Me	23149 No Access	2
139	11758 Owl Trap Ln	23149 No Access	2
140	13787 George Washington Me	23149 No Access	2

141	3759 Owl Trap Rd	23149 No Access	2
142	3769 Owl Trap Rd	23149 No Access	2
143	3711 Owl Trap Rd	23149 No Access	2
144	3735 Owl Trap Rd	23149 No Access	2
145	3699 Owl Trap Rd	23149 No Access	2
146	3540 Lees Neck Farm Rd	23149 No Access	2
147	11658 Owl Trap Ln	23149 No Access	2
148	13697 George Washington Me	23149 No Access	2
149	11710 Owl Trap Ln	23149 No Access	2
150	3429 Lees Neck Farm Rd	23149 No Access	2
151	3387 Lees Neck Farm Rd	23149 No Access	2
152	13512 George Washington Me	23149 No Access	2
153	3412 Lees Neck Farm Rd	23149 No Access	2
154	11635 Owl Trap Ln	23149 No Access	2
155	3876 Owl Trap Rd	23061 No Access	2
156	3807 Owl Trap Rd	23149 No Access	2
157	3860 Owl Trap Rd	23061 No Access	2
158	11794 Owl Trap Ln	23149 No Access	2
159	11426 Farm Rd	23149 No Access	2
160	2758 Lawler Rd	23149 No Access	2
161	11444 Lee Rd	23149 No Access	2
162	11432 Lee Rd	23149 No Access	2
163	2677 Lawler Rd	23149 No Access	2
164	11374 Lee Rd	23149 No Access	2
165	11338 Lee Rd	23149 No Access	2
166	11305 Lee Rd	23149 No Access	2
167	11475 Old Paradise Rd	23149 No Access	2
168	11461 Old Paradise Rd	23149 No Access	2
169	11482 Lee Rd	23149 No Access	2
170	11414 Old Paradise Rd	23149 No Access	2
171	2406 Lees Neck Farm Rd	23149 No Access	2
172	2397 Lees Neck Farm Rd	23149 No Access	2
173	2391 Lees Neck Farm Rd	23149 No Access	2
174	11414 Lee Rd	23149 No Access	2
175	3266 Pine View Ln	23149 No Access	2
176	11252 Goodes Ln	23149 No Access	2
177	3350 Pine View Ln	23149 No Access	2
178	11368 Goodes Ln	23149 No Access	2
179	11408 Goodes Ln	23149 No Access	2
180	13350 George Washington Me	23149 No Access	2
181	13462 George Washington Me	23149 No Access	2
182	11454 Goodes Ln	23061 No Access	2
183	3436 Lees Neck Farm Rd	23149 No Access	2
184	3662 Pampa Rd	23149 Has Access	2
185	13383 George Washington Me	23149 No Access	2
186	13398 George Washington Me	23149 No Access	2
187	13408 George Washington Me	23149 No Access	2

188	3716 Pampa Rd	23149	Has Access	2
189	3554 Halls Ln	23149	No Access	2
190	3574 Halls Ln	23149	No Access	2
191	3604 Halls Ln	23149	No Access	2
192	13031 George Washington Me	23149	No Access	2
193	3440 Toms Hill Rd	23149	No Access	2
194	3484 Toms Hill Rd	23149	No Access	2
195	13117 George Washington Me	23149	No Access	2
196	3931 Owl Trap Rd	23061	No Access	2
197	3042 Rich Ln	23149	No Access	2
198	3240 Rich Ln	23149	No Access	2
199	3606 Autrey Ln	23149	No Access	2
200	12627 George Washington Me	23149	No Access	2
201	3440 Forest Ln	23149	No Access	2
202	3386 Forest Ln	23149	No Access	2
203	3249 Rich Ln	23149	No Access	2
204	3129 Rich Ln	23061	No Access	2
205	12605 George Washington Me	23149	No Access	2
206	12597 George Washington Me	23149	No Access	2
207	12587 George Washington Me	23149	No Access	2
208	12577 George Washington Me	23149	No Access	2
209	12571 George Washington Me	23149	No Access	2
210	3311 Rich Ln	23149	No Access	2
211	3293 Rich Ln	23149	No Access	2
212	3221 Rich Ln	23149	No Access	2
213	3213 Rich Ln	23149	No Access	2
214	3191 Rich Ln	23149	No Access	2
215	3185 Rich Ln	23149	No Access	2
216	3151 Rich Ln	23149	No Access	2
217	12567 George Washington Me	23149	No Access	2
218	3390 Rich Ln	23061	No Access	2
219	3378 Rich Ln	23149	No Access	2
220	3180 Rich Ln	23149	No Access	2
221	3232 Orchard Hill Rd	23149	No Access	2
222	3536 Adkins Ln	23149	No Access	2
223	12771 George Washington Me	23149	No Access	2
224	12749 George Washington Me	23149	No Access	2
225	3383 Forest Ln	23149	No Access	2
226	3328 Forest Ln	23149	No Access	2
227	3250 Forest Ln	23149	No Access	2
228	12933 George Washington Me	23149	No Access	2
229	10942 Lees Landing Ln	23149	No Access	2
230	3520 Adkins Ln	23149	No Access	2
231	10839 Lees Landing Ln	23149	No Access	2
232	10806 Lees Landing Ln	23149	No Access	2
233	12785 George Washington Me	23149	No Access	2
234	3647 Autrey Ln	23149	No Access	2

235 3603 Autrey Ln	23149 No Access	2
236 3636 Autrey Ln	23149 No Access	2
237 3621 Autrey Ln	23149 No Access	2
238 3706 Adkins Ln	23149 No Access	2
239 3727 Autrey Ln	23149 No Access	2
240 3693 Autrey Ln	23149 No Access	2
241 3724 Autrey Ln	23149 No Access	2
242 2953 Adner Rd	23149 No Access	2
243 2967 Adner Rd	23149 No Access	2
244 2983 Adner Rd	23149 No Access	2
245 10216 Rollins Ln	23149 No Access	2
246 10214 Rollins Ln	23149 No Access	2
247 10206 Rollins Ln	23149 No Access	2
248 10210 Rollins Ln	23149 No Access	2
249 10217 Rollins Ln	23149 No Access	2
250 10211 Rollins Ln	23149 No Access	2
251 10215 Rollins Ln	23149 No Access	2
252 10212 Rollins Ln	23149 No Access	2
253 12182 George Washington Me	23061 Has Access	2
254 10239 Rollins Ln	23149 No Access	2
255 10237 Rollins Ln	23149 No Access	2
256 10235 Rollins Ln	23149 No Access	2
257 10248 Rollins Ln	23149 No Access	2
258 10236 Rollins Ln	23149 No Access	2
259 10234 Rollins Ln	23149 No Access	2
260 10232 Rollins Ln	23149 No Access	2
261 10244 Rollins Ln	23149 No Access	2
262 10242 Rollins Ln	23149 No Access	2
263 10240 Rollins Ln	23149 No Access	2
264 10238 Rollins Ln	23149 No Access	2
265 10246 Rollins Ln	23149 No Access	2
266 10243 Rollins Ln	23149 No Access	2
267 10241 Rollins Ln	23149 No Access	2
268 3334 Craig Ln	23149 No Access	2
269 3336 Craig Ln	23061 No Access	2
270 12158 George Washington Me	23061 Has Access	2
271 10228 Rollins Ln	23149 No Access	2
272 10226 Rollins Ln	23149 No Access	2
273 10227 Rollins Ln	23149 No Access	2
274 10230 Rollins Ln	23149 No Access	2
275 10223 Rollins Ln	23149 No Access	2
276 3340 Craig Ln	23149 No Access	2
277 10222 Rollins Ln	23149 No Access	2
278 10224 Rollins Ln	23149 No Access	2
279 10225 Rollins Ln	23149 No Access	2
280 10221 Rollins Ln	23149 No Access	2
281 3338 Craig Ln	23149 No Access	2

282	10213 Rollins Ln	23149 No Access	2
283	10219 Rollins Ln	23149 No Access	2
284	10218 Rollins Ln	23149 No Access	2
285	10208 Rollins Ln	23149 No Access	2
286	3400 Simmons Ln	23149 No Access	2
287	3395 Simmons Ln	23061 No Access	2
288	3397 Simmons Ln	23061 No Access	2
289	3398 Simmons Ln	23149 No Access	2
290	3402 Simmons Ln	23149 No Access	2
291	10251 Rollins Ln	23149 No Access	2
292	3393 Simmons Ln	23061 No Access	2
293	3356 Dobson Dr	23149 No Access	2
294	10249 Rollins Ln	23149 No Access	2
295	3374 Simmons Ln	23061 No Access	2
296	3349 Dobson Dr	23061 No Access	2
297	3352 Dobson Dr	23061 No Access	2
298	10285 Inscoe Ln	23149 No Access	2
299	10283 Inscoe Ln	23149 No Access	2
300	3370 Simmons Ln	23149 No Access	2
301	3354 Dobson Dr	23149 No Access	2
302	3350 Dobson Dr	23149 No Access	2
303	10282 Inscoe Ln	23149 No Access	2
304	10296 Inscoe Ln	23149 No Access	2
305	10294 Inscoe Ln	23149 No Access	2
306	3367 Simmons Ln	23061 No Access	2
307	3365 Simmons Ln	23061 No Access	2
308	10284 Inscoe Ln	23149 No Access	2
309	10286 Inscoe Ln	23149 No Access	2
310	10298 Inscoe Ln	23149 No Access	2
311	10292 Inscoe Ln	23149 No Access	2
312	10290 Inscoe Ln	23149 No Access	2
313	10288 Inscoe Ln	23149 No Access	2
314	12200 George Washington Me	23061 Has Access	2
315	10250 Rollins Ln	23149 No Access	2
316	12278 George Washington Me	23149 Has Access	2
317	3386 Rodney Rd	23061 No Access	2
318	3388 Rodney Rd	23061 No Access	2
319	3383 Simmons Ln	23061 No Access	2
320	3389 Simmons Ln	23149 No Access	2
321	3383 Mcgee Dr	23061 No Access	2
322	3376 Mcgee Dr	23149 No Access	2
323	3378 Mcgee Dr	23149 No Access	2
324	3380 Mcgee Dr	23149 No Access	2
325	3385 Simmons Ln	23149 No Access	2
326	3377 Simmons Ln	23061 No Access	2
327	3375 Simmons Ln	23061 No Access	2
328	3376 Simmons Ln	23061 No Access	2

329	3378 Simmons Ln	23061 No Access	2
330	3372 Mcgee Dr	23061 No Access	2
331	3374 Mcgee Dr	23061 No Access	2
332	3366 Mcgee Dr	23149 No Access	2
333	3368 Mcgee Dr	23149 No Access	2
334	3370 Mcgee Dr	23149 No Access	2
335	3381 Simmons Ln	23149 No Access	2
336	3379 Simmons Ln	23149 No Access	2
337	3373 Simmons Ln	23149 No Access	2
338	3369 Simmons Ln	23149 No Access	2
339	12525 George Washington Me	23149 No Access	2
340	3267 Adner Rd	23149 No Access	2
341	3179 Adner Rd	23149 No Access	2
342	3377 Mcgee Dr	23061 No Access	2
343	3381 Mcgee Dr	23061 No Access	2
344	3379 Mcgee Dr	23061 No Access	2
345	3375 Mcgee Dr	23149 No Access	2
346	3373 Mcgee Dr	23061 No Access	2
347	3367 Mcgee Dr	23149 No Access	2
348	3369 Mcgee Dr	23149 No Access	2
349	3371 Mcgee Dr	23149 No Access	2
350	3210 Adner Rd	23149 No Access	2
351	3250 Adner Rd	23149 No Access	2
352	3387 Simmons Ln	23061 No Access	2
353	3562 Adkins Ln	23149 No Access	2
354	3159 Adner Rd	23149 No Access	2
355	3316 Pine View Ln	23149 No Access	2
356	3709 Autrey Ln	23149 No Access	2
357	14361 George Washington Me	23149 Has Access	2
358	3844 Hideaway Hollow Trl	23149 No Access	2
359	11518 Goodes Ln	23061 No Access	2
360	14518 George Washington Me	23149 No Access	2
361	14091 George Washington Me	23149 No Access	2
362	14167 George Washington Me	23149 No Access	2
363	3856 Blue Bird Trl	23149 Has Access	2
364	14261 George Washington Me	23149 No Access	2
365	3876 Blue Bird Trl	23149 Has Access	2
366	3906 Blue Bird Trl	23149 Has Access	2
367	14301 George Washington Me	23149 No Access	2
368	14481 George Washington Me	23149 No Access	2
369	14465 George Washington Me	23149 No Access	2
370	14219 George Washington Me	23149 No Access	2
371	3777 Pickett Ln	23149 No Access	2
372	14188 George Washington Me	23149 No Access	2
373	14258 George Washington Me	23149 No Access	2
374	14214 George Washington Me	23149 No Access	2
375	12200 Bland Hills Ln	23149 No Access	2

376	12471 County Line Rd	23149	Has Access	2
377	14707 George Washington Me	23149	Has Access	2
378	14721 George Washington Me	23149	No Access	2
379	14788 George Washington Me	23149	Has Access	2
380	14761 George Washington Me	23149	No Access	2
381	14769 George Washington Me	23149	Has Access	2
382	14783 George Washington Me	23149	Has Access	2
383	12977 Northwoods Ln	23149	No Access	2
384	3817 Hideaway Hollow Trl	23149	No Access	2
385	3860 Hideaway Hollow Trl	23149	No Access	2
386	14671 George Washington Me	23149	No Access	2
387	12745 College Dr	23149	Has Access	2
388	3372 Lewis B Puller Memorial I	23149	No Access	2
389	3452 Lewis B Puller Memorial I	23149	Has Access	2
390	3418 Lewis B Puller Memorial I	23149	Has Access	2
391	3462 Lewis B Puller Memorial I	23149	Has Access	2
392	3323 Lewis B Puller Memorial I	23149	Has Access	2
393	12707 Oakley Ln	23149	No Access	2
394	3421 Lewis B Puller Memorial I	23149	Has Access	2
395	3413 Lewis B Puller Memorial I	23149	Has Access	2
396	3436 Lewis B Puller Memorial I	23149	Has Access	2
397	3314 Lewis B Puller Memorial I	23149	Has Access	2
398	3173 Lewis B Puller Memorial I	23149	Has Access	2
399	3128 Pierce Rd	23149	No Access	2
400	3153 Pierce Rd	23149	No Access	2
401	3117 Pierce Rd	23149	No Access	2
402	3026 Pierce Rd	23149	No Access	2
403	3056 Pierce Rd	23149	No Access	2
404	3051 Pierce Rd	23149	No Access	2
405	3021 Pierce Rd	23149	No Access	2
406	12935 Batt Rd	23149	Has Access	2
407	12639 Mayfield Dr	23149	Has Access	2
408	12675 Purple Martin Ln	23149	No Access	2
409	12664 Purple Martin Ln	23149	No Access	2
410	2756 Lewis B Puller Memorial I	23149	Has Access	2
411	2761 Lewis B Puller Memorial I	23149	No Access	2
412	2745 Pierce Rd	23149	No Access	2
413	13160 Northwoods Ln	23149	No Access	2
414	12955 Oakley Ln	23149	No Access	2
415	3292 Rich Ln	23149	No Access	2
416	14833 George Washington Me	23149	No Access	2
417	3095 Adner Rd	23149	No Access	2
418	13782 George Washington Me	23149	No Access	2
419	13417 George Washington Me	23149	No Access	2
420	11482 Goodes Ln	23149	No Access	2
421	2480 Lees Neck Farm Rd	23149	No Access	2
422	3733 Pickett Ln	23149	No Access	2

423	14425 George Washington Me	23149 No Access	2
424	11571 Lee Rd	23149 No Access	2
425	12730 George Washington Me	23149 No Access	2
426	3419 Orchard Hill Rd	23149 No Access	2
427	3493 Autrey Ln	23149 No Access	2
428	3241 Forest Ln	23149 No Access	2
429	2633 Lees Neck Farm Rd	23149 No Access	2
430	12885 George Washington Me	23149 No Access	2
431	3321 Rich Ln	23149 No Access	2
432	3542 Autrey Ln	23149 No Access	2
433	14241 George Washington Me	23149 No Access	2
434	3920 Owl Trap Rd	23061 No Access	2
435	14235 George Washington Me	23149 No Access	2
436	3017 Adner Rd	23149 No Access	2
437	11363 Goodes Ln	23149 No Access	2
438	3340 Rich Ln	23149 No Access	2
439	3651 Owl Trap Rd	23149 No Access	2
440	2938 Pierce Rd	23149 No Access	2
441	3691 Pickett Ln	23149 No Access	2
442	13382 George Washington Me	23149 No Access	2
443	3695 Pickett Ln	23149 No Access	2
444	3676 Autrey Ln	23149 No Access	2
445	2728 Lawler Rd	23149 No Access	2
446	11592 Palmer Pl	23149 No Access	2
447	3445 Forest Ln	23149 No Access	2
448	12423 Blands Farm Rd	23149 No Access	2
449	3747 Owl Trap Rd	23149 No Access	2
450	11335 Lee Rd	23149 No Access	2
451	12547 C W Davis Way	23149 No Access	2
452	3110 Adner Rd	23149 No Access	2
453	11477 Lee Rd	23149 No Access	2
454	13649 George Washington Me	23149 No Access	2
455	2573 Wright Rd	23149 No Access	2
456	12702 George Washington Me	23061 No Access	2
457	3488 Autrey Ln	23149 No Access	2
458	11659 Mitchell Rd	23149 No Access	2
459	3715 Pampa Rd	23061 Has Access	2
460	3385 Lewis B Puller Memorial I	23149 Has Access	2
461	3663 Owl Trap Rd	23149 No Access	2
462	12565 C W Davis Way	23149 No Access	2
463	13344 George Washington Me	23149 No Access	2
464	3693 Pickett Ln	23149 No Access	2
465	2678 Lees Neck Farm Rd	23149 No Access	2
466	2554 Wright Rd	23149 No Access	2
467	12863 George Washington Me	23061 No Access	2
468	12318 Blands Farm Rd	23149 No Access	2
469	12329 Blands Farm Rd	23149 No Access	2

470	3015 Adner Rd	23149 No Access	2
471	12878 George Washington Me	23149 No Access	2
472	12330 Blands Farm Rd	23149 No Access	2
473	11626 Mitchell Rd	23149 No Access	2
474	11271 Goodes Ln	23149 No Access	2
475	11419 Goodes Ln	23149 No Access	2
476	2895 Pierce Rd	23149 No Access	2
477	14531 George Washington Me	23149 No Access	2
478	11623 Palmer Pl	23149 No Access	2
479	2441 Lees Neck Farm Rd	23149 No Access	2
480	3652 Adkins Ln	23149 No Access	2
481	2600 Wright Rd	23149 No Access	2
482	12643 Mayfield Dr	23149 Has Access	2
483	12647 Mayfield Dr	23149 Has Access	2
484	3440 Lewis B Puller Memorial I	23149 Has Access	2
485	11514 Farm Rd	23149 No Access	2
486	11703 Mitchell Rd	23149 No Access	2
487	3675 Owl Trap Rd	23149 No Access	2
488	3812 Owl Trap Rd	23149 No Access	2
489	11681 Owl Trap Ln	23149 No Access	2
490	11705 Owl Trap Ln	23149 No Access	2
491	11379 Lee Rd	23149 No Access	2
492	3344 Forest Ln	23149 No Access	2
493	3270 Forest Ln	23149 No Access	2
494	3644 Autrey Ln	23061 No Access	2
495	3718 Autrey Ln	23149 No Access	2
496	10878 Lees Landing Ln	23149 No Access	2
497	3119 Adner Rd	23061 No Access	2
498	3385 Mcgee Dr	23061 No Access	2
499	3384 Rodney Rd	23061 No Access	2
500	12228 George Washington Me	23149 Has Access	2
501	3629 Pampa Rd	23061 Has Access	2
502	3667 Autrey Ln	23149 No Access	2
503	3348 Orchard Hill Rd	23149 No Access	2
504	12784 Oakley Ln	23149 No Access	2
505	3414 Lees Neck Farm Rd	23149 No Access	2
506	11312 Farm Rd	23149 No Access	2
507	2463 Lees Neck Farm Rd	23149 No Access	2
508	13029 Oakley Ln	23149 No Access	2
509	11706 Mitchell Rd	23149 No Access	2
510	12634 Purple Martin Ln	23149 No Access	2
511	11454 Farm Rd	23149 No Access	2
512	12578 C W Davis Way	23149 No Access	2
513	13174 George Washington Me	23149 No Access	2
514	2658 Lees Neck Farm Rd	23149 No Access	2
515	12906 Northwoods Ln	23149 No Access	2
516	3401 Rich Ln	23149 No Access	2

517	3515 Adkins Ln	23149	No Access	2
518	12847 George Washington Me	23149	No Access	2
519	3194 Adner Rd	23061	No Access	2
520	3431 Rich Ln	23149	No Access	2
521	11349 Farm Rd	23149	No Access	2
522	3158 Adner Rd	23149	No Access	2
523	3053 Lees Neck Farm Rd	23149	No Access	2
524	11667 Owl Trap Ln	0	No Access	2
525	3130 Lees Neck Farm Rd	23149	No Access	2
526	3539 Autrey Ln	23061	No Access	2
527	12833 George Washington Me	23149	No Access	2
528	3563 Autrey Ln	23149	No Access	2
529	3190 Adner Rd	23149	No Access	2
530	3133 Lewis B Puller Memorial I	23149	Has Access	2
531	11325 Farm Rd	23149	No Access	2
532	11309 Farm Rd	23149	No Access	2
533	3325 Forest Ln	23149	No Access	2
534	13061 Northwoods Ln	23149	No Access	2
535	3551 Adkins Ln	23149	No Access	2
536	13011 Northwoods Ln	23149	No Access	2
537	2866 Lees Neck Farm Rd	23149	No Access	2
538	3279 Forest Ln	23149	No Access	2
539	11313 Farm Rd	23149	No Access	2
540	12600 C W Davis Way	23149	No Access	2
541	12525 Blands Farm Rd	23149	No Access	2
542	12131 Bland Hills Ln	23149	No Access	2
543	3080 Lees Neck Farm Rd	23149	No Access	2
544	3087 Lewis B Puller Memorial I	23149	No Access	2
545	2614 Wright Rd	23149	No Access	2
546	2605 Wright Rd	23149	No Access	2
547	12328 Blands Farm Rd	23149	No Access	2
548	14239 George Washington Me	23149	No Access	2
549	3341 Lees Neck Farm Rd	23149	No Access	2
550	3107 Adner Rd	23149	No Access	2
551	3170 Toms Hill Rd	23149	No Access	2
552	14245 Filly Run Rd	23149	No Access	2
553	11221 Goodes Ln	23149	No Access	2
554	2380 Lees Neck Farm Rd	23149	No Access	2
555	13013 Northwoods Ln	23149	No Access	2
556	14709 George Washington Me	23149	Has Access	2
557	14711 George Washington Me	23149	No Access	2
558	11782 Owl Trap Ln	23149	No Access	2
559	11473 Lee Rd	23149	No Access	2
560	2776 Lees Neck Farm Rd	23149	No Access	2
561	3385 Toms Hill Rd	23149	No Access	2
562	11307 Farm Rd	23149	No Access	2
563	11524 Farm Rd	23149	No Access	2

564	3328 Pine View Ln	23149 No Access	2
565	11512 Farm Rd	23149 No Access	2
566	3192 Adner Rd	23149 No Access	2
567	3682 Autrey Ln	23149 No Access	2
568	2962 Adner Rd	23149 No Access	2
569	13671 George Washington Me	23149 No Access	2
570	3054 Toms Hill Rd	23149 No Access	2
571	3343 Forest Ln	23149 No Access	2
572	12705 George Washington Me	23149 No Access	2
573	12161 Bland Hills Ln	23149 No Access	2
574	3698 Adkins Ln	23149 No Access	2
575	3254 Pine View Ln	23149 No Access	2
576	3244 Forest Ln	23149 No Access	2
577	3137 Lees Neck Farm Rd	23149 No Access	2
578	3683 Owl Trap Rd	23149 No Access	2
579	2927 Lees Neck Farm Rd	23149 No Access	2
580	2959 Lees Neck Farm Rd	23149 No Access	2
581	14743 George Washington Me	23149 No Access	2
582	3736 Pampa Rd	23149 Has Access	2
583	3138 Lees Neck Farm Rd	23149 No Access	2
584	3677 Pampa Rd	23149 Has Access	2
585	12881 George Washington Me	23149 No Access	2
586	11506 Lee Rd	23149 No Access	2
587	13257 Northwoods Ln	23149 No Access	2
588	11796 Owl Trap Ln	23149 No Access	2
589	3739 Pampa Rd	23149 Has Access	2
590	2508 Wright Rd	23149 No Access	2
591	3263 Rich Ln	23149 No Access	2
592	3508 Adkins Ln	23149 No Access	2
593	3488 Toms Hill Rd	23149 No Access	2
594	13003 George Washington Me	23149 No Access	2
595	12991 George Washington Me	23149 No Access	2
596	12971 George Washington Me	23149 No Access	2
597	12969 George Washington Me	23149 No Access	2
598	12967 George Washington Me	23149 No Access	2
599	12965 George Washington Me	23149 No Access	2
600	10805 Buchanan Ln	23061 No Access	3
601	10347 Tyler Ln	23061 No Access	3
602	5842 Fletcher Rd	23061 No Access	3
603	5634 Galomy Ln	23061 No Access	3
604	10362 Tyler Ln	23061 No Access	3
605	10787 Graceland Farms Ln	23061 No Access	3
606	10518 Buchanan Ln	23061 No Access	3
607	10982 Graceland Farms Ln	23061 No Access	3
608	10778 Buchanan Ln	23061 No Access	3
609	10369 Tyler Ln	23061 No Access	3
610	5632 Galomy Ln	23061 No Access	3

611	10749 Graceland Farms Ln	23061 No Access	3
612	5680 Galomy Ln	23061 No Access	3
613	10675 Graceland Farms Ln	23061 No Access	3
614	10829 Graceland Farms Ln	23061 No Access	3
615	5872 Fletcher Rd	23061 No Access	3
616	10570 Buchanan Ln	23061 No Access	3
617	5792 Fletcher Rd	23061 No Access	3
618	9042 Twin Rivers Ln	23061 No Access	4
619	9018 Twin Rivers Ln	23061 No Access	4
620	9000 Twin Rivers Ln	23061 No Access	4
621	9066 Halls Creek Rd	23061 No Access	4
622	9172 Poropotank River Rd	23061 No Access	4
623	9180 Poropotank River Rd	23061 No Access	4
624	9065 Norseman Ln	23061 No Access	4
625	9092 Norseman Ln	23061 No Access	4
626	9107 Norseman Ln	23061 No Access	4
627	9132 Norseman Ln	23061 No Access	4
628	9175 Poropotank River Rd	23061 No Access	4
629	2946 Millers Landing Rd	23061 No Access	4
630	2956 Millers Landing Rd	23061 No Access	4
631	9226 Poropotank River Rd	23061 No Access	4
632	3123 Millers Landing Rd	23061 No Access	4
633	3063 Millers Landing Rd	23061 No Access	4
634	2995 Millers Landing Rd	23061 No Access	4
635	3027 Millers Landing Rd	23061 No Access	4
636	2895 Millers Landing Rd	23061 No Access	4
637	2860 Millers Landing Rd	23061 No Access	4
638	8960 Norseman Ln	23061 No Access	4
639	8963 Norseman Ln	23061 No Access	4
640	8954 Halls Creek Rd	23061 No Access	4
641	8688 Boothes Haven Rd	23061 No Access	4
642	8681 Boothes Haven Rd	23061 No Access	4
643	2906 High Point Ln	23061 No Access	4
644	2878 High Point Ln	23061 No Access	4
645	2799 High Point Ln	23061 No Access	4
646	2851 High Point Ln	23061 No Access	4
647	2739 High Point Ln	23061 No Access	4
648	2827 Notta Rd	23061 Has Access	4
649	2855 Notta Rd	23061 No Access	4
650	2848 Notta Rd	23061 No Access	4
651	2886 Franklins Tower Ln	23061 No Access	4
652	8684 Boothes Haven Rd	23061 No Access	4
653	8965 Halls Creek Rd	23061 No Access	4
654	3054 Millers Landing Rd	23061 Has Access	4
655	2785 Notta Rd	23061 Has Access	4
656	9178 Poropotank River Rd	23061 No Access	4
657	2963 Millers Landing Rd	23061 No Access	4

658	2921 High Point Ln	23061 No Access	4
659	2813 High Point Ln	23061 No Access	4
660	2969 High Point Ln	23061 No Access	4
661	9030 Twin Rivers Ln	23061 No Access	4
662	3034 Millers Landing Rd	23061 No Access	4
663	9147 Norseman Ln	23061 No Access	4
664	2909 Millers Landing Rd	23061 No Access	4
665	8975 Halls Creek Rd	23061 No Access	4
666	8978 Twin Rivers Ln	23061 No Access	4
667	2807 Notta Rd	23061 No Access	4
668	2987 High Point Ln	23061 No Access	4
669	2882 High Point Ln	23061 No Access	4
670	3001 Millers Landing Rd	23061 No Access	4
671	9040 Norseman Ln	23061 No Access	4
672	9001 Halls Creek Rd	23061 No Access	4
673	3000 High Point Ln	23061 No Access	4
674	2935 Millers Landing Rd	23061 No Access	4
675	2965 High Point Ln	23061 No Access	4
676	3002 Millers Landing Rd	23061 No Access	4
677	2694 High Point Ln	23061 No Access	4
678	2812 High Point Ln	23061 No Access	4
679	2927 Millers Landing Rd	23061 No Access	4
680	2874 High Point Ln	23061 No Access	4
681	2931 Millers Landing Rd	23061 No Access	4
682	2928 Millers Landing Rd	23061 Has Access	4
683	8939 Halls Creek Rd	23061 No Access	4
684	9035 Norseman Ln	23061 No Access	4
685	9031 Norseman Ln	23061 No Access	4
686	2889 Millers Landing Rd	23061 No Access	4
687	3047 Millers Landing Rd	23061 No Access	4
688	8999 Twin Rivers Ln	23061 No Access	4
689	8683 Boothes Haven Rd	23061 Has Access	4
690	8099 Big Oak Ln	23061 No Access	5
691	8044 Big Oak Ln	23061 No Access	5
692	8050 Big Oak Ln	23061 No Access	5
693	8114 Crystal Ln	23061 No Access	5
694	8112 Adams Creek Rd	23061 No Access	5
695	8064 Adams Creek Rd	23061 No Access	5
696	8060 Adams Creek Rd	23061 No Access	5
697	8084 Adams Creek Rd	23061 No Access	5
698	8100 Adams Creek Rd	23061 No Access	5
699	8053 Adams Creek Rd	23061 No Access	5
700	8048 Adams Creek Rd	23061 No Access	5
701	8030 Crystal Ln	23061 No Access	5
702	2372 Starvation Rd	23061 No Access	5
703	2436 Starvation Rd	23061 No Access	5
704	2464 Starvation Rd	23061 No Access	5

705	2584 Starvation Rd	23061 No Access	5
706	2975 Island Rd	23061 No Access	5
707	2805 Island Rd	23061 No Access	5
708	2310 Island Rd	23061 No Access	5
709	2466 Adams Creek View Ln	23061 No Access	5
710	2450 Island Rd	23061 No Access	5
711	2550 Island Rd	23061 No Access	5
712	2425 Island Rd	23061 No Access	5
713	2609 Island Rd	23061 Has Access	5
714	7905 Adams Creek Rd	23061 No Access	5
715	7962 Adams Creek Rd	23061 No Access	5
716	7967 Adams Creek Rd	23061 No Access	5
717	2486 Adams Creek View Ln	23061 No Access	5
718	2652 Island Rd	23061 No Access	5
719	2645 Island Rd	23061 No Access	5
720	8133 Adams Creek Rd	23061 No Access	5
721	8103 Adams Creek Rd	23061 No Access	5
722	7953 Adams Creek Rd	23061 No Access	5
723	2496 Starvation Rd	23061 No Access	5
724	2635 Island Rd	23061 No Access	5
725	2392 Starvation Rd	23061 No Access	5
726	8019 Crystal Ln	23061 No Access	5
727	8122 Crystal Ln	23061 No Access	5
728	8115 Adams Creek Rd	23061 No Access	5
729	2801 Island Rd	23061 Has Access	5
730	8081 Crystal Ln	23061 Has Access	5
731	2854 Island Rd	23061 No Access	5
732	2402 Adams Creek View Ln	23061 No Access	5
733	2679 Island Rd	23061 No Access	5
734	2795 Island Rd	23061 No Access	5
735	2777 Island Rd	23061 No Access	5
736	2573 Pine Top Ln	23061 No Access	5
737	2739 Island Rd	23061 No Access	5
738	2430 Starvation Rd	23061 No Access	5
739	2486 Starvation Rd	23061 No Access	5
740	7940 Adams Creek Rd	23061 No Access	5
741	2587 Pine Top Ln	23061 No Access	5
742	2443 Island Rd	23061 No Access	5
743	2713 Island Rd	23061 No Access	5
744	2496 Pine Top Ln	23061 No Access	5
745	2799 Island Rd	23061 No Access	5
746	2825 Island Rd	23061 No Access	5
747	2768 Island Rd	23061 No Access	5
748	2463 Island Rd	23061 No Access	5
749	8068 Adams Creek Rd	23061 No Access	5
750	2499 Adams Creek View Ln	23061 No Access	5
751	7951 Adams Creek Rd	23061 No Access	5

752 8109 Crystal Ln	23061 No Access	5
753 8053 Willis Rd	23061 No Access	6
754 8067 Willis Rd	23061 No Access	6
755 8147 Willis Rd	23061 No Access	6
756 8603 Willis Rd	23061 No Access	6
757 8639 Willis Rd	23061 No Access	6
758 8439 Willis Rd	23061 No Access	6
759 8559 Willis Rd	23061 No Access	6
760 8371 Willis Rd	23061 No Access	6
761 8381 Willis Rd	23061 No Access	6
762 8411 Willis Rd	23061 No Access	6
763 8031 Willis Rd	23061 No Access	6
764 8079 Willis Rd	23061 No Access	6
765 8129 Willis Rd	23061 No Access	6
766 4317 Lockmorr Ln	23061 No Access	6
767 7550 Willis Rd	23061 No Access	6
768 7658 Willis Rd	23061 No Access	6
769 7727 Willis Rd	23061 No Access	6
770 7807 Willis Rd	23061 No Access	6
771 7899 Willis Rd	23061 No Access	6
772 8122 Willis Rd	23061 No Access	6
773 4313 Lockmorr Ln	23061 No Access	6
774 8575 Willis Rd	23061 No Access	6
775 7722 Willis Rd	23061 No Access	6
776 7921 Willis Rd	23061 No Access	6
777 7913 Willis Rd	23061 No Access	6
778 8049 Willis Rd	23061 No Access	6
779 7911 Willis Rd	23061 No Access	6
780 4395 Lockmorr Ln	23061 No Access	6
781 4355 Lockmorr Ln	23061 No Access	6
782 8513 Willis Rd	23061 No Access	6
783 8417 Willis Rd	23061 No Access	6
784 8105 Willis Rd	23061 No Access	6
785 8117 Willis Rd	23061 No Access	6
786 8093 Willis Rd	23061 No Access	6
787 7879 Willis Rd	23061 No Access	6
788 4337 Lockmorr Ln	23061 No Access	6
789 4404 Lockmorr Ln	23061 No Access	6
790 8387 Willis Rd	23061 No Access	6
791 8288 Willis Rd	23061 No Access	6
792 7484 Willis Rd	23061 No Access	6
793 7460 Willis Rd	23061 No Access	6
794 4531 New Landing Rd	23061 No Access	6
795 7553 Willis Rd	23061 No Access	6
796 7555 Willis Rd	23061 No Access	6
797 4591 New Landing Rd	23061 No Access	6
798 7644 Willis Rd	23061 No Access	6

799 4613 New Landing Rd	23061 No Access	6
800 7931 Willis Rd	23061 No Access	6
801 7943 Willis Rd	23061 No Access	6
802 7520 Willis Rd	23061 No Access	6
803 7584 Willis Rd	23061 No Access	6
804 7745 Willis Rd	23061 No Access	6
805 7582 Willis Rd	23061 No Access	6
806 4726 Westmill Rd	23061 No Access	6
807 7406 Willis Rd	23061 No Access	6
808 7444 Willis Rd	23061 No Access	6
809 4594 Westmill Rd	23061 No Access	6
810 8539 Willis Rd	23061 No Access	6
811 4656 Westmill Rd	23061 No Access	6
812 6737 Olivis Rd	23061 No Access	7
813 3735 Morris Farm Ln	23061 No Access	7
814 4017 Valley Front Ln	23061 No Access	7
815 4014 Valley Front Ln	23061 No Access	7
816 6874 Burgess Rd	23061 No Access	7
817 3420 Morris Farm Ln	23061 No Access	7
818 3321 Morris Farm Ln	23061 No Access	7
819 3319 Morris Farm Ln	23061 No Access	7
820 3397 Morris Farm Ln	23061 No Access	7
821 3578 Morris Farm Ln	23061 No Access	7
822 3694 Morris Farm Ln	23061 No Access	7
823 6453 Silky Way	23061 No Access	7
824 6675 Olivis Rd	23061 No Access	7
825 3334 Morris Farm Ln	23061 No Access	7
826 6407 Silky Way	23061 No Access	7
827 6583 Olivis Rd	23061 No Access	7
828 6584 Olivis Rd	23061 No Access	7
829 6731 Burgess Rd	23061 No Access	7
830 3461 Morris Farm Ln	23061 No Access	7
831 4350 Valley Front Ln	23061 No Access	7
832 4224 Valley Front Ln	23061 No Access	7
833 6493 Cowpen Neck Rd	23061 No Access	7
834 6405 Silky Way	23061 No Access	7
835 3608 Morris Farm Ln	23061 No Access	7
836 6803 Olivis Rd	23061 No Access	7
837 4161 Valley Front Ln	23061 No Access	7
838 3813 Brumfield Ln	23061 Has Access	7
839 4105 Valley Front Ln	23061 No Access	7
840 4056 Valley Front Ln	23061 No Access	7
841 7037 Rosehill Rd	23061 No Access	8
842 7097 Rosehill Rd	23061 No Access	8
843 5026 Elizabeth Ln	23061 No Access	8
844 5136 Kathy Ln	23061 No Access	8
845 5082 Kathy Ln	23061 No Access	8

846	7121 Rosehill Rd	23061 No Access	8
847	7130 Rosehill Rd	23061 No Access	8
848	5196 Kathy Ln	23061 No Access	8
849	4966 Elizabeth Ln	23061 No Access	8
850	4956 Walnut Hill Farm Rd	23061 No Access	8
851	4971 Walnut Hill Farm Rd	23061 No Access	8
852	4940 Elizabeth Ln	23061 No Access	8
853	5134 Kathy Ln	23061 No Access	8
854	4938 Elizabeth Ln	23061 No Access	8
855	4814 Elizabeth Ln	23061 No Access	8
856	4891 Walnut Hill Farm Rd	23061 No Access	8
857	4764 Elizabeth Ln	23061 No Access	8
858	4644 Elizabeth Ln	23061 No Access	8
859	4705 Elizabeth Ln	23061 Has Access	8
860	4685 Elizabeth Ln	23061 Has Access	8
861	5107 Kathy Ln	23061 No Access	8
862	4851 Elizabeth Ln	23061 No Access	8
863	7292 Featherbed Ln	23061 No Access	9
864	7971 Severn Hall Ln	23061 No Access	9
865	7312 Featherbed Ln	23061 No Access	9
866	7810 O Neil Rd	23061 No Access	9
867	7847 O Neil Rd	23061 No Access	9
868	7851 O Neil Rd	23061 No Access	9
869	7910 O Neil Rd	23061 No Access	9
870	7814 O Neil Rd	23061 No Access	9
871	4568 Jameslin Dr	23061 No Access	9
872	4589 Jameslin Dr	23061 No Access	9
873	4567 Osprey Ln	23061 No Access	9
874	4750 Warner Hall Rd	23061 No Access	9
875	4790 Warner Hall Rd	23061 No Access	9
876	7408 Featherbed Ln	23061 No Access	9
877	7294 Featherbed Ln	23061 No Access	9
878	7219 Featherbed Ln	23061 No Access	9
879	4650 Warner Hall Rd	23061 No Access	9
880	7650 Featherbed Ln	23061 No Access	9
881	7438 Featherbed Ln	23061 No Access	9
882	7855 Severn Hall Ln	23061 No Access	9
883	7969 Severn Hall Ln	23061 No Access	9
884	7965 Severn Hall Ln	23061 No Access	9
885	7252 Featherbed Ln	23061 No Access	9
886	7914 O Neil Rd	23061 No Access	9
887	4477 Osprey Ln	23061 No Access	9
888	7959 Severn Hall Ln	23061 No Access	9
889	4370 Outapocket Ln	23061 No Access	9
890	7973 Severn Hall Ln	23061 No Access	9
891	4523 Osprey Ln	23061 No Access	9
892	7818 O Neil Rd	23061 No Access	9

893 7791 O Neil Rd	23061 No Access	9
894 4282 Outapocket Ln	23061 No Access	9
895 4274 Outapocket Ln	23061 No Access	9
896 7711 O Neil Rd	23061 No Access	9
897 7812 O Neil Rd	23061 No Access	9
898 8385 Robins Neck Rd	23061 No Access	10
899 5218 Sherwood Ln	23061 No Access	10
900 5383 Mobjack Rd	23061 No Access	10
901 5068 Mobjack Rd	23061 No Access	10
902 5447 Mobjack Rd	23061 No Access	10
903 5461 Mobjack Rd	23061 No Access	10
904 5413 Mobjack Rd	23061 No Access	10
905 5419 Mobjack Rd	23061 No Access	10
906 5711 Mobjack Rd	23061 No Access	10
907 5042 Sherwood Ln	23061 No Access	10
908 8880 Nelson Wood Ln	23061 No Access	10
909 8854 Nelson Wood Ln	23061 No Access	10
910 8821 Nelson Wood Ln	23061 No Access	10
911 8841 Nelson Wood Ln	23061 No Access	10
912 9031 Nelson Wood Ln	23061 No Access	10
913 5530 Sherwood Ln	23061 No Access	10
914 5442 Sherwood Ln	23061 No Access	10
915 5434 Sherwood Ln	23061 No Access	10
916 5384 Sherwood Ln	23061 No Access	10
917 9208 Greenway Farm Ln	23061 No Access	10
918 9109 Greenway Farm Ln	23061 No Access	10
919 9247 Robins Neck Rd	23061 Has Access	10
920 9557 Robins Neck Rd	23061 Has Access	10
921 9511 Robins Neck Rd	23061 Has Access	10
922 9701 Robins Neck Rd	23061 Has Access	10
923 4473 The Corduroy	23061 No Access	10
924 9712 Robins Neck Rd	23061 No Access	10
925 4464 School House Rd	23061 No Access	10
926 4442 School House Rd	23061 No Access	10
927 9714 Robins Neck Rd	23061 No Access	10
928 4688 School House Rd	23061 No Access	10
929 9530 Whittaker Dr	23061 No Access	10
930 9524 Whittaker Dr	23061 No Access	10
931 4204 Lands End Rd	23061 No Access	10
932 9870 Bay Cottage Ln	23061 No Access	10
933 4352 The Corduroy	23061 No Access	10
934 9916 Bay Cottage Ln	23061 No Access	10
935 9926 Bay Cottage Ln	23061 No Access	10
936 4477 The Corduroy	23061 No Access	10
937 8967 Nelson Wood Ln	23061 No Access	10
938 4481 The Corduroy	23061 No Access	10
939 4475 The Corduroy	23061 No Access	10

940	8906 Nelson Wood Ln	23061 No Access	10
941	5697 Mobjack Rd	23061 No Access	10
942	5685 Mobjack Rd	23061 No Access	10
943	5729 Mobjack Rd	23061 No Access	10
944	5741 Mobjack Rd	23061 No Access	10
945	5350 Sherwood Ln	23061 No Access	10
946	5470 Sherwood Ln	23061 No Access	10
947	9046 Nelson Wood Ln	23061 No Access	10
948	6773 Hickory Knoll Rd	23061 No Access	11
949	6844 Enfield Rd	23061 Has Access	11
950	6697 Hickory Knoll Rd	23061 No Access	11
951	6973 Hickory Knoll Ln	23061 No Access	11
952	6484 Hickory Knoll Rd	23061 No Access	11
953	6565 Hickory Knoll Rd	23061 No Access	11
954	6956 Hickory Knoll Ln	23061 No Access	11
955	6595 Hickory Knoll Rd	23061 No Access	11
956	6972 Hickory Knoll Ln	23061 No Access	11
957	6912 Hickory Knoll Ln	23061 No Access	11
958	6477 Hickory Knoll Rd	23061 No Access	11
959	6525 Hickory Knoll Rd	23061 No Access	11
960	6937 Hickory Knoll Ln	23061 No Access	11
961	6596 Hickory Knoll Rd	23061 No Access	11
962	6536 Hickory Knoll Rd	23061 No Access	11
963	6662 Hickory Knoll Rd	23061 No Access	11
964	6724 Hickory Knoll Rd	23061 No Access	11
965	6599 Hickory Knoll Rd	23061 No Access	11
966	6669 Muggins Creek Rd	23061 No Access	12
967	6655 Muggins Creek Rd	23061 No Access	12
968	6722 Muggins Creek Rd	23061 No Access	12
969	6726 Muggins Creek Rd	23061 No Access	12
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972	6573 Muggins Creek Rd	23061 No Access	12
973	6577 Muggins Creek Rd	23061 No Access	12
974	6587 Muggins Creek Rd	23061 No Access	12
975	6675 Muggins Creek Rd	23061 No Access	12
976	6651 Muggins Creek Rd	23061 No Access	12
977	6736 Muggins Creek Rd	23061 No Access	12
978	6740 Muggins Creek Rd	23061 No Access	12
979	4707 Ware Neck Rd	23061 No Access	13
980	6627 Tappan Ln	23061 No Access	13
981	6649 Tappan Ln	23061 No Access	13
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983	6671 Tappan Ln	23061 Has Access	13
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985	6644 Riverview Inn Ln	23061 No Access	13
986	6681 Northwind Ln	23061 No Access	13

987 6705 Northwind Ln	23061 No Access	13
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989 6704 Northwind Ln	23061 No Access	13
990 6658 Riverview Inn Ln	23061 No Access	13
991 6666 Riverview Inn Ln	23061 No Access	13
992 4862 Ware Neck Rd	23061 No Access	13
993 4724 Ware Neck Rd	23061 No Access	13
994 9662 Five Point Rd	23061 No Access	13
995 9684 Five Point Rd	23061 No Access	13
996 9582 Five Point Rd	23061 No Access	13
997 9601 Five Point Rd	23061 No Access	13
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999 9482 Davis Creek Rd	23061 No Access	13
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1004 9730 Mariners Watch Ln	23061 No Access	13
1005 6839 Cabin Ln	23061 No Access	13
1006 9756 Mariners Watch Ln	23061 No Access	13
1007 9734 Mariners Watch Ln	23061 No Access	13
1008 9508 Mariners Watch Ln	23061 No Access	13
1009 6849 Cabin Ln	23061 No Access	13
1010 9574 Lightview Ln	23061 No Access	13
1011 6928 Cabin Ln	23061 No Access	13
1012 9823 Wakaigan Ln	23061 No Access	13
1013 6557 Tappan Ln	23061 No Access	13
1014 9514 Lightview Ln	23061 No Access	13
1015 9478 Bay Meadows Rd	23061 No Access	13
1016 9415 Bay Meadows Rd	23061 No Access	13
1017 6334 Old Swimmin Hole Ln	23061 No Access	13
1018 5926 Ware Point Rd	23061 No Access	13
1019 5992 Ware Point Rd	23061 No Access	13
1020 6002 Ware Point Rd	23061 No Access	13
1021 6223 Ware Point Rd	23061 No Access	13
1022 9755 Mobjack View Ln	23061 No Access	13
1023 6179 Green Cove Ln	23061 No Access	13
1024 6198 Green Cove Ln	23061 No Access	13
1025 6250 Green Cove Ln	23061 No Access	13
1026 9465 Bay Meadows Rd	23061 No Access	13
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1029 6304 Old Swimmin Hole Ln	23061 Has Access	13
1030 6272 Old Swimmin Hole Ln	23061 No Access	13
1031 6259 Ware Point Rd	23061 No Access	13
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1038	6414 Ware Point Rd	23061 No Access	13
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1046	9782 Wakaigan Ln	23061 No Access	13
1047	9815 Eastwind Rd	23061 No Access	13
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1049	5873 Ware Point Ln	23061 No Access	13
1050	5885 Ware Point Ln	23061 No Access	13
1051	5606 Ware Point Rd	23061 No Access	13
1052	5655 Ware Point Rd	23061 No Access	13
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1054	5905 Ware Point Ln	23061 No Access	13
1055	5915 Ware Point Ln	23061 No Access	13
1056	5750 Ware Point Rd	23061 No Access	13
1057	6668 Northwind Ln	23061 No Access	13
1058	5699 Ware Point Rd	23061 No Access	13
1059	9694 Mariners Watch Ln	23061 No Access	13
1060	6662 Baiae Ln	23061 No Access	13
1061	9685 Five Point Rd	23061 No Access	13
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1067	5759 Ware Point Rd	23061 No Access	13
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1070	7201 Belleville Ln	23061 No Access	14
1071	7357 Belleville Ln	23061 No Access	14
1072	7365 Belleville Ln	23061 No Access	14
1073	7358 Belleville Ln	23061 No Access	14
1074	7353 Hope Haven Ln	23061 No Access	14
1075	7352 Belleville Ln	23061 No Access	14
1076	7375 Hope Haven Ln	23061 No Access	14
1077	7401 Hope Haven Ln	23061 No Access	14
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1081	7215 Belleville Ln	23061 No Access	14
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1090	8772 Sandie Knowe Ln	23061 No Access	15
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1092	8751 Waverley Ln	23061 No Access	15
1093	8753 Waverley Ln	23061 No Access	15
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1095	9091 Midlothian Ln	23061 No Access	15
1096	8040 Newstead Ln	23061 No Access	15
1097	8576 Toddsbury Ln	23061 No Access	15
1098	8469 Exchange Ln	23061 No Access	15
1099	8441 Exchange Ln	23061 No Access	15
1100	8134 Chism Trl	23061 No Access	15
1101	8503 George Washington Merr	23061 No Access	15
1102	8421 Toddsbury Ln	23061 No Access	15
1103	8706 Toddsbury Ln	23061 No Access	15
1104	8879 Waverley Ln	23061 No Access	15
1105	8722 Waverley Ln	23061 No Access	15
1106	8788 Waverley Ln	23061 No Access	15
1107	8395 Azalea Bush Ln	23061 No Access	15
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1110	8634 Waverley Ln	23061 No Access	15
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1115	8717 Toddsbury Ln	23061 No Access	15
1116	8099 Newstead Ln	23061 No Access	15
1117	8105 Newstead Ln	23061 No Access	15
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1119	7965 Cloister Dr	23061 No Access	15
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1121	7554 Creeks End Rd	23061 No Access	15
1122	8392 Daffodil Ln	23061 No Access	15
1123	8332 Daffodil Ln	23061 No Access	15
1124	8302 Daffodil Ln	23061 No Access	15
1125	8609 Dundee Ln	23061 No Access	15
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1131	8634 Exchange Ln	23061 No Access	15
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1133	8673 Exchange Ln	23061 No Access	15
1134	8350 Daffodil Ln	23061 No Access	15
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1137	8718 Elmington Ln	23061 Has Access	15
1138	8704 Elmington Ln	23061 Has Access	15
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1143	8708 Hickston Ln	23061 No Access	15
1144	7466 Flower Field Cir	23061 No Access	15
1145	7409 Heath Trl	23061 No Access	15
1146	7454 Flower Field Cir	23061 No Access	15
1147	7438 Creeks End Rd	23061 No Access	15
1148	7502 Creeks End Rd	23061 No Access	15
1149	7513 Heath Trl	23061 No Access	15
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1151	8602 Matsuda Ln	23061 No Access	15
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1159	8499 Dundee Ln	23061 No Access	15
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1168	8004 Cloister Dr	23061 No Access	15
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1184 8765 Coles Landing Dr	23061 No Access	15
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1209 7966 Cloister Dr	23061 No Access	15
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1213 7624 Wagon Run Rd	23061 No Access	16
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1216 7556 Wagon Run Rd	23061 No Access	16
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1222	7859 Birds Nest Ct	23061 No Access	16
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1225	9791 Honey Tree Ct	23061 No Access	16
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1227	9797 Honey Tree Ct	23061 No Access	16
1228	9789 Honey Tree Ct	23061 No Access	16
1229	7635 Wagon Run Rd	23061 No Access	16
1230	9993 Buckskin Trl	23061 No Access	16
1231	10037 Buckskin Trl	23061 No Access	16
1232	10065 Buckskin Trl	23061 Has Access	16
1233	9625 Burke View Dr	23061 No Access	16
1234	9967 Buckskin Trl	23061 No Access	16
1235	7856 Birds Nest Ct	23061 No Access	16
1236	7744 Wagon Run Rd	23061 No Access	16
1237	8077 Beaver Pond Rd	23061 No Access	16
1238	8025 Beaver Pond Rd	23061 No Access	16
1239	8021 Beaver Pond Rd	23061 No Access	16
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1242	9886 Burke View Dr	23061 No Access	16
1243	9850 Autumn Woods Ln	23061 No Access	16
1244	9818 Burke View Dr	23061 No Access	16
1245	8236 Burke Woods Ct	23061 No Access	16
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1262	9319 Burke View Dr	23061 No Access	16
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1264	9013 Rangtang Rd	23061 No Access	16
1265	8162 Palmetto Rd	23061 No Access	16
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1268	8168 Palmetto Rd	23061 No Access	16

1269	8133 Windsor Hall Rd	23061 No Access	16
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1275	8257 Beaver Pond Rd	23061 No Access	16
1276	9085 Catapult Ln	23061 No Access	16
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1278	8868 Catapult Ln	23061 No Access	16
1279	9496 John Clayton Memorial H	23061 Has Access	16
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1326 7891 Small Stream Ct	23061 No Access	16
1327 9891 Honey Tree Ct	23061 No Access	16
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1329 8084 Burke Woods Ct	23061 No Access	16
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1388	10223 Bumpy Rd	23061 Has Access	17
1389	10226 Bumpy Rd	23061 Has Access	17
1390	6589 Ever Green Ln	23061 No Access	17
1391	6565 Ever Green Ln	23061 No Access	17
1392	10126 Indian Rd	23061 No Access	17
1393	10121 Indian Rd	23061 No Access	17
1394	10101 Indian Rd	23061 No Access	17
1395	9731 Mohican Dr	23061 No Access	17
1396	9736 Mohican Dr	23061 No Access	17
1397	6994 Abbey Rd	23061 No Access	17
1398	9761 Indian Rd	23061 No Access	17
1399	9757 Indian Rd	23061 No Access	17
1400	7022 Old Cabin Ln	23061 No Access	17
1401	6867 Beech Creek Rd	23061 No Access	17
1402	6787 Beech Creek Rd	23061 No Access	17
1403	6773 Beech Creek Rd	23061 No Access	17
1404	6989 Deer Stand Dr	23061 No Access	17
1405	7038 Beech Creek Rd	23061 No Access	17
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1407	9879 Indian Rd	23061 No Access	17
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1412	9767 Mohican Dr	23061 No Access	17
1413	9750 Mohican Dr	23061 No Access	17
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1415	6554 Jenkins Ln	23061 No Access	17
1416	6510 Jenkins Ln	23061 No Access	17
1417	6531 Jenkins Ln	23061 No Access	17
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1419	6501 Jenkins Ln	23061 No Access	17
1420	6469 Marshall Way	23061 No Access	17
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1423	6431 Marshall Way	23061 No Access	17
1424	6401 Marshall Way	23061 No Access	17
1425	9276 Beasley Dr	23061 No Access	17
1426	6449 Marshall Way	23061 No Access	17
1427	9099 Beasley Dr	23061 No Access	17
1428	9086 Beasley Dr	23061 No Access	17
1429	6602 Jenkins Ln	23061 No Access	17
1430	9216 Moran Cir	23061 No Access	17
1431	6933 Abbey Rd	23061 No Access	17
1432	6855 Abbey Rd	23061 No Access	17
1433	6861 Abbey Rd	23061 No Access	17
1434	6883 Abbey Rd	23061 No Access	17
1435	9723 Indian Rd	23061 No Access	17
1436	9712 Indian Rd	23061 No Access	17
1437	9570 Indian Rd	23061 No Access	17
1438	9492 Indian Rd	23061 No Access	17
1439	6817 Cherokee Ln	23061 No Access	17
1440	6808 Cherokee Ln	23061 No Access	17
1441	9192 Indian Rd	23061 No Access	17
1442	6881 Indian Creek Trl	23061 No Access	17
1443	6849 Cherokee Ln	23061 No Access	17
1444	6506 Jenkins Ln	23061 No Access	17
1445	6835 Indian Creek Trl	23061 No Access	17
1446	7233 Indian Springs Ln	23061 No Access	17
1447	7151 Indian Springs Ln	23061 No Access	17
1448	7214 Indian Springs Ln	23061 No Access	17
1449	8816 Indian Rd	23061 No Access	17
1450	8870 Indian Rd	23061 No Access	17
1451	8996 Indian Rd	23061 No Access	17
1452	6856 Woodland Dr	23061 No Access	17
1453	9128 Indian Rd	23061 No Access	17
1454	6843 Indian Creek Trl	23061 No Access	17
1455	9088 Indian Rd	23061 No Access	17
1456	9064 Indian Rd	23061 No Access	17

1457 9034 Indian Rd	23061 No Access	17
1458 9006 Indian Rd	23061 No Access	17
1459 8349 Mohawk Ln	23061 No Access	17
1460 8345 Mohawk Ln	23061 No Access	17
1461 8307 Mohawk Ln	23061 No Access	17
1462 7280 Indian Springs Ln	23061 No Access	17
1463 8404 Mohawk Ln	23061 No Access	17
1464 8400 Mohawk Ln	23061 No Access	17
1465 8396 Mohawk Ln	23061 No Access	17
1466 8872 Indian Rd	23061 No Access	17
1467 10183 Bumpy Rd	23061 No Access	17
1468 6961 Indian Creek Trl	23061 No Access	17
1469 7136 Beech Creek Rd	23061 No Access	17
1470 10045 Skillman Ln	23061 No Access	17
1471 6372 Marshall Way	23061 No Access	17
1472 6566 Jenkins Ln	23061 No Access	17
1473 6525 Beaverdam Ln	23061 No Access	17
1474 9277 Beasley Dr	23061 No Access	17
1475 9907 Indian Rd	23061 No Access	17
1476 10076 Marys Ln	23061 No Access	17
1477 8522 Navajo Trl	23061 No Access	17
1478 8481 Navajo Trl	23061 No Access	17
1479 6817 Indian Creek Trl	23061 No Access	17
1480 6830 Indian Creek Trl	23061 No Access	17
1481 10166 Marys Ln	23061 No Access	17
1482 6499 Beaverdam Ln	23061 No Access	17
1483 6500 Jenkins Ln	23061 No Access	17
1484 10113 Marys Ln	23061 No Access	17
1485 8443 Navajo Trl	23061 No Access	17
1486 7180 Beech Creek Rd	23061 No Access	17
1487 10143 Marys Ln	23061 No Access	17
1488 10123 Marys Ln	23061 No Access	17
1489 8562 Navajo Trl	23061 No Access	17
1490 8596 Navajo Trl	23061 No Access	17
1491 10200 Bumpy Rd	23061 No Access	17
1492 6391 Marshall Way	23061 No Access	17
1493 9135 Beasley Dr	23061 No Access	17
1494 8559 Indian Rd	23061 Has Access	17
1495 8382 Mohawk Ln	23061 No Access	17
1496 6987 Beech Creek Rd	23061 Has Access	17
1497 7240 Beech Creek Rd	23061 No Access	17
1498 6935 Beech Creek Rd	23061 No Access	17
1499 9182 Moran Cir	23061 No Access	17
1500 6925 Deer Stand Dr	23061 No Access	17
1501 8976 Indian Rd	23061 No Access	17
1502 7093 Beech Creek Rd	23061 No Access	17
1503 6949 Deer Stand Dr	23061 No Access	17

1504	6809 Cherokee Ln	23061 No Access	17
1505	6799 Beech Creek Rd	23061 No Access	17
1506	8553 Sherman Way	23061 No Access	17
1507	9594 Indian Rd	23061 No Access	17
1508	8822 Indian Rd	23061 No Access	17
1509	7264 Mason Way	23061 No Access	17
1510	7380 Mason Way	23061 No Access	17
1511	7011 Beech Creek Rd	23061 Has Access	17
1512	8848 Indian Rd	23061 No Access	17
1513	10097 Skillman Ln	23061 No Access	17
1514	10050 Skillman Ln	23061 No Access	17
1515	10042 Skillman Ln	23061 No Access	17
1516	6833 Cherokee Ln	23061 No Access	17
1517	7033 Deer Stand Dr	23061 No Access	17
1518	7050 Deer Stand Dr	23061 No Access	17
1519	7060 Deer Stand Dr	23061 No Access	17
1520	6960 Old Cabin Ln	23061 No Access	17
1521	10023 Indian Rd	23061 No Access	17
1522	7070 Beech Creek Rd	23061 No Access	17
1523	6984 Deer Stand Dr	23061 Has Access	17
1524	7049 Beech Creek Rd	23061 No Access	17
1525	6988 Old Cabin Ln	23061 No Access	17
1526	9823 Indian Rd	23061 No Access	17
1527	6498 Beaverdam Ln	23061 No Access	17
1528	6574 Jenkins Ln	23061 No Access	17
1529	6494 Jenkins Ln	23061 No Access	17
1530	6643 Beaverdam Ln	23061 No Access	17
1531	7247 Indian Springs Ln	23061 No Access	17
1532	6442 Beaverdam Ln	23061 No Access	17
1533	8607 Navajo Trl	23061 Has Access	17
1534	7063 Indian Springs Ln	23061 No Access	17
1535	8978 Indian Rd	23061 No Access	17
1536	6911 Indian Creek Trl	23061 No Access	17
1537	8944 Indian Rd	23061 No Access	17
1538	6369 Marshall Way	23061 No Access	17
1539	8429 Mohawk Ln	23061 No Access	17
1540	10106 Indian Rd	23061 No Access	17
1541	8473 Indian Rd	23061 Has Access	17
1542	8482 Navajo Trl	23061 No Access	17
1543	7272 Mason Way	23061 No Access	17
1544	7258 Mason Way	23061 No Access	17
1545	8603 Sherman Way	23061 No Access	17
1546	8971 Days End Ln	23061 No Access	17
1547	7294 Beech Creek Rd	23061 No Access	17
1548	9011 Days End Ln	23061 No Access	17
1549	10224 Marys Ln	23061 No Access	17
1550	6992 Beech Creek Rd	23061 No Access	17

1551 8623 Sherman Way	23061 No Access	17
1552 10108 Skillman Ln	23061 No Access	17
1553 6812 Indian Creek Trl	23061 No Access	17
1554 8444 Navajo Trl	23061 No Access	17
1555 7316 Mason Way	23061 No Access	17
1556 8984 Indian Rd	23061 No Access	17
1557 6563 Beaverdam Ln	23061 No Access	17
1558 6892 Woodland Dr	23061 No Access	17
1559 8386 Mohawk Ln	23061 No Access	17
1560 8559 Navajo Trl	23061 No Access	17
1561 6827 Woodland Dr	23061 No Access	17
1562 9166 Indian Rd	23061 No Access	17
1563 9999 Indian Rd	23061 No Access	17
1564 10069 Indian Rd	23061 No Access	17
1565 6789 Woodland Dr	23061 No Access	17
1566 6812 Cherokee Ln	23061 No Access	17
1567 6855 Indian Creek Trl	23061 No Access	17
1568 7114 Indian Springs Ln	23061 No Access	17
1569 6867 Cherokee Ln	23061 No Access	17
1570 6988 Indian Springs Ln	23061 No Access	17
1571 9085 Beasley Dr	23061 No Access	17
1572 9022 Indian Rd	23061 No Access	17
1573 10180 Bumpy Rd	23061 No Access	17
1574 9217 Moran Cir	23061 No Access	17
1575 6501 Marshall Way	23061 No Access	17
1576 9083 Beasley Dr	23061 No Access	17
1577 9082 Beasley Dr	23061 No Access	17
1578 7019 Indian Springs Ln	23061 No Access	17
1579 8755 Indian Rd	23061 No Access	17
1580 6886 Indian Creek Trl	23061 No Access	17
1581 9141 Beasley Dr	23061 No Access	17
1582 7030 Indian Springs Ln	23061 No Access	17
1583 6850 Cherokee Ln	23061 No Access	17
1584 5979 Pear Field Ln	23061 No Access	18
1585 5977 Pear Field Ln	23061 No Access	18
1586 5939 Hickory Hill Ln	23061 No Access	18
1587 6033 Hickory Hill Ln	23061 No Access	18
1588 5975 Hickory Hill Ln	23061 No Access	18
1589 5804 Gockley Ln	23061 No Access	18
1590 5855 Hickory Hill Ln	23061 No Access	18
1591 5877 Hickory Hill Ln	23061 No Access	18
1592 6160 Gockley Ln	23061 No Access	18
1593 6034 Gockley Ln	23061 No Access	18
1594 6088 Gockley Ln	23061 No Access	18
1595 6144 Gockley Ln	23061 No Access	18
1596 6017 Homeplace Ln	23061 No Access	18
1597 5831 Pear Field Ln	23061 No Access	18

1598	5901 Hickory Hill Ln	23061 No Access	18
1599	5895 Hickory Hill Ln	23061 No Access	18
1600	5774 Gockley Ln	23061 No Access	18
1601	5972 Gockley Ln	23061 No Access	18
1602	6077 Gockley Ln	23061 No Access	18
1603	6104 Gockley Ln	23061 No Access	18
1604	6144 Hickory Hill Ln	23061 No Access	18
1605	5941 Homeplace Ln	23061 No Access	18
1606	5833 Homeplace Ln	23061 No Access	18
1607	5848 Homeplace Ln	23061 No Access	18
1608	6008 Gockley Ln	23061 No Access	18
1609	6029 Gockley Ln	23061 No Access	18
1610	5743 Gockley Ln	23061 No Access	18
1611	6022 Gockley Ln	23061 No Access	18
1612	6186 Gockley Ln	23061 No Access	18
1613	5927 Homeplace Ln	23061 No Access	18
1614	5822 Homeplace Ln	23061 No Access	18
1615	6092 Pear Field Ln	23061 No Access	18
1616	6027 Gockley Ln	23061 No Access	18
1617	5922 Homeplace Ln	23061 No Access	18
1618	6103 Gockley Ln	23061 No Access	18
1619	5748 Gockley Ln	23061 No Access	18
1620	6188 Hickory Hill Ln	23061 No Access	18
1621	5819 Gockley Ln	23061 No Access	18
1622	10404 Robins Nest Ln	23061 No Access	19
1623	10238 Robins Nest Ln	23061 No Access	19
1624	10123 Robins Nest Ln	23061 No Access	19
1625	10292 Robins Nest Ln	23061 No Access	19
1626	10389 Robins Nest Ln	23061 No Access	19
1627	10405 Robins Nest Ln	23061 No Access	19
1628	10203 Robins Nest Ln	23061 No Access	19
1629	10391 Robins Nest Ln	23061 No Access	19
1630	10190 Robins Nest Ln	23061 No Access	19
1631	10122 Robins Nest Ln	23061 No Access	19
1632	10410 Robins Nest Ln	23061 No Access	19
1633	10569 Shelby Ln	23061 No Access	20
1634	10497 Bald Eagle Way	23061 No Access	20
1635	10376 Shelby Ln	23061 No Access	20
1636	10391 Shelby Ln	23061 No Access	20
1637	10656 Shelby Ln	23061 No Access	20
1638	10605 Shelby Ln	23061 No Access	20
1639	10463 Shelby Ln	23061 No Access	20
1640	10482 Shelby Ln	23061 No Access	20
1641	10439 Shelby Ln	23061 No Access	20
1642	10602 Shelby Ln	23061 No Access	20
1643	10975 Dancers Creek Rd	23050 No Access	21
1644	10991 Dancers Creek Rd	23050 No Access	21

1645	10996 Dancers Creek Rd	23050 No Access	21
1646	10579 Cedar Gate Ln	23050 No Access	21
1647	10518 Freewelcome Ln	23050 No Access	21
1648	10558 Freewelcome Ln	23050 No Access	21
1649	10538 Cedar Gate Ln	23050 No Access	21
1650	10521 Freewelcome Ln	23050 No Access	21
1651	9562 Dutton Rd	23050 No Access	21
1652	10315 Vidaurri Ln	23050 No Access	21
1653	10319 Vidaurri Ln	23050 No Access	21
1654	10232 Vidaurri Ln	23050 No Access	21
1655	10481 Freewelcome Ln	23050 No Access	21
1656	9685 Dutton Rd	23050 No Access	21
1657	9467 Dutton Rd	23050 No Access	21
1658	10500 Cedar Gate Ln	23050 No Access	21
1659	10622 Cedar Gate Ln	23050 No Access	21
1660	10282 Vidaurri Ln	23050 No Access	21
1661	10605 Cedar Gate Ln	23050 No Access	21
1662	10501 Freewelcome Ln	23050 No Access	21
1663	10530 Freewelcome Ln	23050 No Access	21
1664	10554 Freewelcome Ln	23050 No Access	21
1665	10535 Cedar Gate Ln	23050 No Access	21
1666	10520 Cedar Gate Ln	23050 No Access	21
1667	10877 Dancers Creek Rd	23050 No Access	21
1668	10525 Cedar Gate Ln	23050 No Access	21
1669	10929 Dancers Creek Rd	23050 No Access	21
1670	11020 Dancers Creek Rd	23050 No Access	21
1671	10284 Vidaurri Ln	23050 No Access	21
1672	10553 Freewelcome Ln	23061 No Access	21
1673	10432 Freewelcome Ln	23050 Has Access	21
1674	10415 Hope Cir	23050 No Access	21
1675	10535 Freewelcome Ln	23050 No Access	21
1676	10711 Piankatank Dr	23061 No Access	21
1677	10443 Freewelcome Ln	23050 No Access	21
1678	10477 Freewelcome Ln	23050 No Access	21
1679	8461 Freewelcome Ln W	23050 No Access	21
1680	8493 Freewelcome Ln W	23050 No Access	21
1681	8455 Freewelcome Ln W	23050 No Access	21
1682	8876 Freewelcome Ln W	23050 No Access	21
1683	10936 Freewelcome Ln E	23050 No Access	21
1684	10956 Freewelcome Ln E	23050 No Access	21
1685	10961 Freewelcome Ln E	23050 No Access	21
1686	8495 Freewelcome Ln W	23050 No Access	21
1687	8763 Freewelcome Ln W	23050 No Access	21
1688	8613 Freewelcome Ln	23050 No Access	21
1689	8639 Freewelcome Ln W	23050 No Access	21
1690	8465 Freewelcome Ln W	23050 No Access	21
1691	8449 Freewelcome Ln W	23050 No Access	21

1692 8761 Freewelcome Ln W	23050 No Access	21
1693 10399 Hope Cir	23050 No Access	21
1694 10283 Hope Cir	23050 No Access	21
1695 10285 Hope Cir	23050 No Access	21
1696 7581 Granny Valley Rd	23061 No Access	22
1697 7484 Hell Neck Rd	23061 No Access	22
1698 7475 Hell Neck Rd	23061 No Access	22
1699 8278 Hell Neck Rd	23061 No Access	22
1700 8262 Hell Neck Rd	23061 No Access	22
1701 8346 Warthen Ln	23061 No Access	22
1702 8280 Warthen Ln	23061 No Access	22
1703 8310 Warthen Ln	23061 No Access	22
1704 8318 Warthen Ln	23061 No Access	22
1705 11327 Water View Pl	23061 No Access	22
1706 11307 Water View Pl	23061 No Access	22
1707 11339 Water View Pl	23061 No Access	22
1708 11269 Water View Pl	23061 No Access	22
1709 11257 Water View Pl	23061 No Access	22
1710 8418 Warthen Ln	23061 No Access	22
1711 8396 Warthen Ln	23061 No Access	22
1712 11192 Eventide Ln	23061 No Access	22
1713 11172 Eventide Ln	23061 No Access	22
1714 8320 Highview Dr	23061 No Access	22
1715 8331 Highview Dr	23061 No Access	22
1716 8267 Highview Dr	23061 No Access	22
1717 8213 Riverview Dr	23061 No Access	22
1718 8221 Riverview Dr	23061 No Access	22
1719 8225 Riverview Dr	23061 No Access	22
1720 8206 Riverview Dr	23061 No Access	22
1721 8212 Riverview Dr	23061 No Access	22
1722 8218 Riverview Dr	23061 No Access	22
1723 11414 Landing Dr	23061 No Access	22
1724 8253 Highview Dr	23061 No Access	22
1725 8169 Riverview Dr	23061 No Access	22
1726 8177 Riverview Dr	23061 No Access	22
1727 8201 Riverview Dr	23061 No Access	22
1728 8174 Riverview Dr	23061 No Access	22
1729 8184 Riverview Dr	23061 No Access	22
1730 8190 Riverview Dr	23061 No Access	22
1731 8198 Riverview Dr	23061 No Access	22
1732 8123 Riverview Dr	23061 No Access	22
1733 8147 Riverview Dr	23061 No Access	22
1734 8151 Riverview Dr	23061 No Access	22
1735 8161 Riverview Dr	23061 No Access	22
1736 11359 Water View Pl	23061 No Access	22
1737 8148 Riverview Dr	23061 No Access	22
1738 8153 Highview Dr	23061 No Access	22

1739	11375 Bristow Dr	23061 No Access	22
1740	8055 Riverwatch Ct	23061 No Access	22
1741	8218 Hell Neck Rd	23061 No Access	22
1742	8112 Hell Neck Rd	23061 No Access	22
1743	11134 Eventide Ln	23061 No Access	22
1744	8114 Hell Neck Rd	23061 No Access	22
1745	8185 Riverview Dr	23061 No Access	22
1746	8237 Covey Point Ln	23061 No Access	22
1747	11361 Water View Pl	23061 No Access	22
1748	8381 Estate Dr	23061 No Access	22
1749	8121 Riverview Dr	23061 No Access	22
1750	8288 Highview Dr	23061 No Access	22
1751	8207 Riverview Dr	23061 No Access	22
1752	11289 George Washington Me	23061 No Access	22
1753	8383 Estate Dr	23061 No Access	22
1754	7768 Haynes Dr	23061 Has Access	22
1755	8139 Riverview Dr	23061 No Access	22
1756	8140 Riverview Dr	23061 No Access	22
1757	11146 Eventide Ln	23061 No Access	22
1758	8322 Estate Dr	23061 No Access	22
1759	8360 Estate Dr	23061 No Access	22
1760	8054 Riverwatch Ct	23061 No Access	22
1761	8385 Warthen Ln	23061 No Access	22
1762	7456 Hell Neck Rd	23061 No Access	22
1763	8316 Estate Dr	23061 No Access	22
1764	8031 Riverwatch Ct	23061 No Access	22
1765	11220 Eventide Ln	23061 No Access	22
1766	11078 Eventide Ln	23061 No Access	22
1767	7845 Riverwatch Dr	23061 No Access	22
1768	7576 South Shore Dr	23061 No Access	22
1769	8133 Riverview Dr	23061 No Access	22
1770	7603 South Shore Dr	23061 No Access	22
1771	7616 South Shore Dr	23061 No Access	22
1772	7604 South Shore Dr	23061 Has Access	22
1773	7787 Riverwatch Dr	23061 No Access	22
1774	8154 Riverview Dr	23061 No Access	22
1775	11455 East West Pkwy	23061 No Access	22
1776	7573 South Shore Dr	23061 No Access	22
1777	11409 East West Pkwy	23061 No Access	22
1778	8132 Riverview Dr	23061 No Access	22
1779	8407 Warthen Ln	23061 No Access	22
1780	11451 Coveside Pt	23061 No Access	22
1781	8158 Riverview Dr	23061 No Access	22
1782	8168 Riverview Dr	23061 No Access	22
1783	8306 Estate Dr	23061 No Access	22
1784	8053 Riverwatch Ct	23061 No Access	22
1785	8193 Riverview Dr	23061 No Access	22

1786	7563 South Shore Dr	23061 No Access	22
1787	11555 East West Pkwy	23061 No Access	22
1788	11522 East West Pkwy	23061 No Access	22
1789	8049 Riverwatch Ct	23061 No Access	22
1790	7668 Riverwatch Dr	23061 No Access	22
1791	7438 Hell Neck Rd	23061 No Access	22
1792	7617 South Shore Dr	23061 No Access	22
1793	11388 Coveside Pt	23061 No Access	22
1794	7852 Riverwatch Dr	23061 No Access	22
1795	11385 East West Pkwy	23061 No Access	22
1796	7827 Riverwatch Dr	23061 No Access	22
1797	11258 Bayport Lndg	23061 No Access	22
1798	11463 Coveside Pt	23061 No Access	22
1799	7608 Riverwatch Dr	23061 No Access	22
1800	8205 Highview Dr	23061 No Access	22
1801	8167 Highview Dr	23061 No Access	22
1802	8243 Highview Dr	23061 No Access	22
1803	Thousand Trails Campground	23061 No Access	23

Zone ID #	Total number of address	Number of address without access to broadband	Resulting percentage unserved	Location
1	116	108	93.1%	Turks Ferry Rd & Salem Church Rd, Belleview Rd
2	483	443	91.7%	Rt 17 between Adner & Glens Rd
3	18	18	100.0%	Buchanan Ln & Galomy Ln
4	72	67	93.1%	Taynard Landing Road and Millers Landing Road
5	63	62	98.4%	Signpine area west of Hickory Fork Road
6	59	59	100.0%	Willis Rd area off Ark Rd
7	29	28	96.6%	Morris Farm Ln & Valley Front Ln
8	22	20	90.9%	Sassafras, Willis Road and Elizabeth Lane
9	35	35	100.0%	Featherbed Ln
10	50	46	92.0%	East of Robins Neck Rd near Naxera
11	18	17	94.4%	Hickory Knoll Rd off Enfield Rd
12	13	13	100.0%	Muggins Creek Road
13	91	89	97.8%	Eastern Ware Neck Area
14	14	14	100.0%	North Ware Neck, Belleville Ln & Durham Massie Ln
15	128	123	96.1%	East of Clayton Memorial between Daffodil Ln & Midlothian Ln
16	174	161	92.5%	Burkeview Rd & Figg Shop Rd
17	198	188	94.9%	Indian Rd & Indian Springs Ln
18	38	38	100.0%	Hickory Hill Ln
19	11	11	100.0%	Robins Nest Ln
20	10	10	100.0%	Shelby Ln
21	53	52	98.1%	Dutton Rd
22	107	105	98.1%	Hell Neck Rd
23	1	1	100.0%	Thousand Trails Camp Grounds
	1803	1708	96.9%	Average Unserved Rate

Zone 1			Broadband		
Address	ZIPCODE	Broadband Status	Address	ZIPCODE	Status
1 4521 Pampa Rd	23061	Access to Cox	48 12666 Belleview Rd	23061	No Access
2 4834 Glenns Rd	23061	Access to Cox	49 12692 Belleview Rd	23061	No Access
3 4618 Glenns Rd	23061	Access to Cox	50 12550 Belleview Rd	23061	No Access
4 4628 Glenns Rd	23061	Access to Cox	51 4734 Glenns Rd	23061	No Access
5 12526 Rilees Farm Rd	23061	Access to Cox	52 4599 Glenns Rd	23061	No Access
6 4613 Pampa Rd	23061	Access to Cox	53 4644 Glenns Rd	23061	No Access
7 12563 Salem Church Rd	23061	Access to Cox	54 4704 Glenns Rd	23061	No Access
8 12424 Salem Church Rd	23061	Access to Cox	55 4530 Glenns Rd	23061	No Access
9 12032 Salem Church Rd	23061	No Access	56 12614 Salem Church Rd	23061	No Access
10 12086 Salem Church Rd	23061	No Access	57 4905 Turks Ferry Rd	23061	No Access
11 11616 Salem Church Rd	23061	No Access	58 11828 Salem Wood Rd	23061	No Access
12 11668 Salem Church Rd	23061	No Access	59 11801 Salem Wood Rd	23061	No Access
13 11664 Salem Church Rd	23061	No Access	60 12650 Belleview Rd	23061	No Access
14 4869 Turks Ferry Rd	23061	No Access	61 12397 Rilees Farm Rd	23061	No Access
15 5243 Turks Ferry Rd	23061	No Access	62 11808 Salem Wood Rd	23061	No Access
16 5047 Turks Ferry Rd	23061	No Access	63 5182 Owl Ridge Rd	23061	No Access
17 11899 South Grimes Ln	23061	No Access	64 4921 Turks Ferry Rd	23061	No Access
18 11875 South Grimes Ln	23061	No Access	65 4924 Glenns Rd	23061	No Access
19 4953 Turks Ferry Rd	23061	No Access	66 4488 Glenns Rd	23061	No Access
20 4835 Turks Ferry Rd	23061	No Access	67 12398 Salem Church Rd	23061	No Access
21 11408 Salem Church Rd	23061	No Access	68 12567 Salem Church Rd	23061	No Access
22 4634 Turks Ferry Rd	23061	No Access	69 4783 Turks Ferry Rd	23061	No Access
23 4882 Turks Ferry Rd	23061	No Access	70 12293 Rilees Farm Rd	23061	No Access
24 4763 Turks Ferry Rd	23061	No Access	71 4602 Hunny Pot Ln	23061	No Access
25 4817 Turks Ferry Rd	23061	No Access	72 4646 Hunny Pot Ln	23061	No Access
26 12295 Rilees Farm Rd	23061	No Access	73 11837 Salem Wood Rd	23061	No Access
27 12146 Rilees Farm Rd	23061	No Access	74 11867 Salem Church Rd	23061	No Access
28 5231 Owl Ridge Rd	23061	No Access	75 12633 Point Of View Ln	23061	No Access
29 5310 Owl Ridge Rd	23061	No Access	76 11451 Salem Church Rd	23061	No Access
30 5228 Owl Ridge Rd	23061	No Access	77 4815 Hunny Pot Ln	23061	No Access
31 5272 Owl Ridge Rd	23061	No Access	78 12453 Rilees Farm Rd	23061	No Access
32 12486 Belleview Rd	23061	No Access	79 4690 Glenns Rd	23061	No Access
33 12512 Belleview Rd	23061	No Access	80 11878 Salem Church Rd	23061	No Access
34 5031 Glenns Rd	23061	No Access	81 4827 Glenns Rd	23061	No Access
35 12036 Rilees Farm Rd	23061	No Access	82 4872 Hunny Pot Ln	23061	No Access
36 12143 Rilees Farm Rd	23061	No Access	83 12480 Belleview Rd	23061	No Access
37 12188 Rilees Farm Rd	23061	No Access	84 11359 Salem Church Rd	23061	No Access
38 4802 Glenns Rd	23061	No Access	85 4682 Hunny Pot Ln	23061	No Access
39 4830 Glenns Rd	23061	No Access	86 11846 Salem Church Rd	23061	No Access
40 4836 Glenns Rd	23061	No Access	87 11753 Salem Wood Rd	23061	No Access
41 4839 Glenns Rd	23061	No Access	88 11753 Salem Church Rd	23061	No Access
42 4847 Glenns Rd	23061	No Access	89 11487 Salem Church Rd	23061	No Access
43 12375 Rilees Farm Rd	23061	No Access	90 12090 Salem Church Rd	23061	No Access
44 12390 Rilees Farm Rd	23061	No Access	91 11719 Salem Church Rd	23061	No Access
45 12417 Salem Church Rd	23061	No Access	92 11797 Salem Church Rd	23061	No Access
46 12582 Belleview Rd	23061	No Access	93 4935 Turks Ferry Rd	23061	No Access
47 12642 Point Of View Ln	23061	No Access	94 11647 Salem Church Rd	23061	No Access
Address	ZIPCODE	Broadband Status			
95 11789 Salem Church Rd	23061	No Access			
96 4876 Glenns Rd	23061	No Access			
97 4887 Turks Ferry Rd	23061	No Access			
98 4734 Hunny Pot Ln	23061	No Access			
99 11543 Salem Wood Rd	23061	No Access			

100	11847 Salem Church Rd	23061	No Access
101	11710 Salem Wood Rd	23061	No Access
102	4560 Glenns Rd	23061	No Access
103	11541 Salem Wood Rd	23061	No Access
104	5314 Owl Ridge Rd	23061	No Access
105	4703 Turks Ferry Rd	23061	No Access
106	4664 Glenns Rd	23061	No Access
107	4788 Glenns Rd	23061	No Access
108	11872 Salem Church Rd	23061	No Access
109	12111 Rilees Farm Rd	23061	No Access
110	12386 Belleview Rd	23061	No Access
111	11683 Salem Church Rd	23061	No Access
112	11881 Salem Church Rd	23061	No Access
113	4942 Glenns Rd	23061	No Access
114	11625 Salem Church Rd	23061	No Access
115	4749 Glenns Rd	23061	No Access
116	12288 Rilees Farm Rd	23061	No Access

93% Unserved - 8 structures with service and 108 w/out

Zone 2		Broadband		Zone 2		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status	Address	Status
1 3662 Pampa Rd	23149	Has Access	48 2734 Lees Neck Farm Rd	23149	No Access		
2 3716 Pampa Rd	23149	Has Access	49 3181 Lees Neck Farm Rd	23149	No Access		
3 12182 G Washington Mem Hwy	23061	Has Access	50 3212 Lees Neck Farm Rd	23149	No Access		
4 12158 G Washington Meml Hwy	23061	Has Access	51 12011 Bland Hills Ln	23149	No Access		
5 12200 G Washington Meml Hwy	23061	Has Access	52 11979 Bland Hills Ln	23149	No Access		
6 12278 G Washington Meml Hwy	23149	Has Access	53 3689 Getaway Ln	23149	No Access		
7 14361 G Washington Meml Hwy	23149	Has Access	54 3599 Getaway Ln	23149	No Access		
8 3856 Blue Bird Trl	23149	Has Access	55 3666 Getaway Ln	23149	No Access		
9 3876 Blue Bird Trl	23149	Has Access	56 13846 G Washington Mem Hwy	23149	No Access		
10 3906 Blue Bird Trl	23149	Has Access	57 13864 G Washington Meml Hwy	23149	No Access		
11 12471 County Line Rd	23149	Has Access	58 13908 G Washington Meml Hwy	23149	No Access		
12 14707 G Washington Meml Hwy	23149	Has Access	59 13827 G Washington Meml Hwy	23149	No Access		
13 14788 G Washington Meml Hwy	23149	Has Access	60 13843 G Washington Meml Hwy	23149	No Access		
14 14769 G Washington Meml Hwy	23149	Has Access	61 13804 G Washington Meml Hwy	23149	No Access		
15 14783 G Washington Meml Hwy	23149	Has Access	62 13802 G Washington Meml Hwy	23149	No Access		
16 12745 College Dr	23149	Has Access	63 11758 Owl Trap Ln	23149	No Access		
17 3452 Lewis B Puller Memorial Hwy	23149	Has Access	64 13787 G Washington Meml Hwy	23149	No Access		
18 3418 Lewis B Puller Memorial Hwy	23149	Has Access	65 3759 Owl Trap Rd	23149	No Access		
19 3462 Lewis B Puller Memorial Hwy	23149	Has Access	66 3769 Owl Trap Rd	23149	No Access		
20 3323 Lewis B Puller Memorial Hwy	23149	Has Access	67 3711 Owl Trap Rd	23149	No Access		
21 3421 Lewis B Puller Memorial Hwy	23149	Has Access	68 3735 Owl Trap Rd	23149	No Access		
22 3413 Lewis B Puller Memorial Hwy	23149	Has Access	69 3699 Owl Trap Rd	23149	No Access		
23 3436 Lewis B Puller Memorial Hwy	23149	Has Access	70 3540 Lees Neck Farm Rd	23149	No Access		
24 3314 Lewis B Puller Memorial Hwy	23149	Has Access	71 11658 Owl Trap Ln	23149	No Access		
25 3173 Lewis B Puller Memorial Hwy	23149	Has Access	72 13697 G Washington Meml Hwy	23149	No Access		
26 12935 Batt Rd	23149	Has Access	73 11710 Owl Trap Ln	23149	No Access		
27 12639 Mayfield Dr	23149	Has Access	74 3429 Lees Neck Farm Rd	23149	No Access		
28 2756 Lewis B Puller Memorial Hwy	23149	Has Access	75 3387 Lees Neck Farm Rd	23149	No Access		
29 3715 Pampa Rd	23061	Has Access	76 13512 G Washington Meml Hwy	23149	No Access		
30 3385 Lewis B Puller Memorial Hwy	23149	Has Access	77 3412 Lees Neck Farm Rd	23149	No Access		
31 12643 Mayfield Dr	23149	Has Access	78 11635 Owl Trap Ln	23149	No Access		
32 12647 Mayfield Dr	23149	Has Access	79 3876 Owl Trap Rd	23061	No Access		
33 3440 Lewis B Puller Memorial Hwy	23149	Has Access	80 3807 Owl Trap Rd	23149	No Access		
34 12228 G Washington Meml Hwy	23149	Has Access	81 3860 Owl Trap Rd	23061	No Access		
35 3629 Pampa Rd	23061	Has Access	82 11794 Owl Trap Ln	23149	No Access		
36 3133 Lewis B Puller Memorial Hwy	23149	Has Access	83 11426 Farm Rd	23149	No Access		
37 14709 G Washington Meml Hwy	23149	Has Access	84 2758 Lawler Rd	23149	No Access		
38 3736 Pampa Rd	23149	Has Access	85 11444 Lee Rd	23149	No Access		
39 3677 Pampa Rd	23149	Has Access	86 11432 Lee Rd	23149	No Access		
40 3739 Pampa Rd	23149	Has Access	87 2677 Lawler Rd	23149	No Access		
41 11543 Lee Rd	23149	No Access	88 11374 Lee Rd	23149	No Access		
42 11548 Lee Rd	23149	No Access	89 11338 Lee Rd	23149	No Access		
43 2878 Lees Neck Farm Rd	23149	No Access	90 11305 Lee Rd	23149	No Access		
44 2809 Lees Neck Farm Rd	23149	No Access	91 11475 Old Paradise Rd	23149	No Access		
45 2738 Lees Neck Farm Rd	23149	No Access	92 11461 Old Paradise Rd	23149	No Access		
46 11584 Mitchell Rd	23149	No Access	93 11482 Lee Rd	23149	No Access		
47 2824 Lees Neck Farm Rd	23149	No Access	94 11414 Old Paradise Rd	23149	No Access		
Zone 2		Broadband		Zone 2		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status	Address	Status
95 2406 Lees Neck Farm Rd	23149	No Access	142 3180 Rich Ln	23149	No Access		
96 2397 Lees Neck Farm Rd	23149	No Access	143 3232 Orchard Hill Rd	23149	No Access		
97 2391 Lees Neck Farm Rd	23149	No Access	144 3536 Adkins Ln	23149	No Access		
98 11414 Lee Rd	23149	No Access	145 12771 G Washington Meml Hwy	23149	No Access		

99	3266 Pine View Ln	23149	No Access	146	12749 G Washington Meml Hwy	23149	No Access
100	11252 Goodes Ln	23149	No Access	147	3383 Forest Ln	23149	No Access
101	3350 Pine View Ln	23149	No Access	148	3328 Forest Ln	23149	No Access
102	11368 Goodes Ln	23149	No Access	149	3250 Forest Ln	23149	No Access
103	11408 Goodes Ln	23149	No Access	150	12933 G Washington Meml Hwy	23149	No Access
104	13350 G Washington Meml Hwy	23149	No Access	151	10942 Lees Landing Ln	23149	No Access
105	13462 G Washington Meml Hwy	23149	No Access	152	3520 Adkins Ln	23149	No Access
106	11454 Goodes Ln	23061	No Access	153	10839 Lees Landing Ln	23149	No Access
107	3436 Lees Neck Farm Rd	23149	No Access	154	10806 Lees Landing Ln	23149	No Access
108	13383 G Washington Meml Hwy	23149	No Access	155	12785 G Washington Meml Hwy	23149	No Access
109	13398 G Washington Meml Hwy	23149	No Access	156	3647 Autrey Ln	23149	No Access
110	13408 G Washington Meml Hwy	23149	No Access	157	3603 Autrey Ln	23149	No Access
111	3554 Halls Ln	23149	No Access	158	3636 Autrey Ln	23149	No Access
112	3574 Halls Ln	23149	No Access	159	3621 Autrey Ln	23149	No Access
113	3604 Halls Ln	23149	No Access	160	3706 Adkins Ln	23149	No Access
114	13031 G Washington Meml Hwy	23149	No Access	161	3727 Autrey Ln	23149	No Access
115	3440 Toms Hill Rd	23149	No Access	162	3693 Autrey Ln	23149	No Access
116	3484 Toms Hill Rd	23149	No Access	163	3724 Autrey Ln	23149	No Access
117	13117 G Washington Meml Hwy	23149	No Access	164	2953 Adner Rd	23149	No Access
118	3931 Owl Trap Rd	23061	No Access	165	2967 Adner Rd	23149	No Access
119	3042 Rich Ln	23149	No Access	166	2983 Adner Rd	23149	No Access
120	3240 Rich Ln	23149	No Access	167	10216 Rollins Ln	23149	No Access
121	3606 Autrey Ln	23149	No Access	168	10214 Rollins Ln	23149	No Access
122	12627 G Washington Meml Hwy	23149	No Access	169	10206 Rollins Ln	23149	No Access
123	3440 Forest Ln	23149	No Access	170	10210 Rollins Ln	23149	No Access
124	3386 Forest Ln	23149	No Access	171	10217 Rollins Ln	23149	No Access
125	3249 Rich Ln	23149	No Access	172	10211 Rollins Ln	23149	No Access
126	3129 Rich Ln	23061	No Access	173	10215 Rollins Ln	23149	No Access
127	12605 G Washington Meml Hwy	23149	No Access	174	10212 Rollins Ln	23149	No Access
128	12597 G Washington Meml Hwy	23149	No Access	175	10239 Rollins Ln	23149	No Access
129	12587 G Washington Meml Hwy	23149	No Access	176	10237 Rollins Ln	23149	No Access
130	12577 G Washington Meml Hwy	23149	No Access	177	10235 Rollins Ln	23149	No Access
131	12571 G Washington Meml Hwy	23149	No Access	178	10248 Rollins Ln	23149	No Access
132	3311 Rich Ln	23149	No Access	179	10236 Rollins Ln	23149	No Access
133	3293 Rich Ln	23149	No Access	180	10234 Rollins Ln	23149	No Access
134	3221 Rich Ln	23149	No Access	181	10232 Rollins Ln	23149	No Access
135	3213 Rich Ln	23149	No Access	182	10244 Rollins Ln	23149	No Access
136	3191 Rich Ln	23149	No Access	183	10242 Rollins Ln	23149	No Access
137	3185 Rich Ln	23149	No Access	184	10240 Rollins Ln	23149	No Access
138	3151 Rich Ln	23149	No Access	185	10238 Rollins Ln	23149	No Access
139	12567 G Washington Meml Hwy	23149	No Access	186	10246 Rollins Ln	23149	No Access
140	3390 Rich Ln	23061	No Access	187	10243 Rollins Ln	23149	No Access
141	3378 Rich Ln	23149	No Access	188	10241 Rollins Ln	23149	No Access

Zone 2		Broadband		Zone 2		Broadband	
Address	ZIPCODE	Status		Address	ZIPCODE	Status	
189	3334 Craig Ln	23149	No Access	236	3388 Rodney Rd	23061	No Access
190	3336 Craig Ln	23061	No Access	237	3383 Simmons Ln	23061	No Access
191	10228 Rollins Ln	23149	No Access	238	3389 Simmons Ln	23149	No Access
192	10226 Rollins Ln	23149	No Access	239	3383 Mcgee Dr	23061	No Access
193	10227 Rollins Ln	23149	No Access	240	3376 Mcgee Dr	23149	No Access
194	10230 Rollins Ln	23149	No Access	241	3378 Mcgee Dr	23149	No Access
195	10223 Rollins Ln	23149	No Access	242	3380 Mcgee Dr	23149	No Access
196	3340 Craig Ln	23149	No Access	243	3385 Simmons Ln	23149	No Access
197	10222 Rollins Ln	23149	No Access	244	3377 Simmons Ln	23061	No Access
198	10224 Rollins Ln	23149	No Access	245	3375 Simmons Ln	23061	No Access

199 10225 Rollins Ln	23149 No Access	246 3376 Simmons Ln	23061 No Access
200 10221 Rollins Ln	23149 No Access	247 3378 Simmons Ln	23061 No Access
201 3338 Craig Ln	23149 No Access	248 3372 Mcgee Dr	23061 No Access
202 10213 Rollins Ln	23149 No Access	249 3374 Mcgee Dr	23061 No Access
203 10219 Rollins Ln	23149 No Access	250 3366 Mcgee Dr	23149 No Access
204 10218 Rollins Ln	23149 No Access	251 3368 Mcgee Dr	23149 No Access
205 10208 Rollins Ln	23149 No Access	252 3370 Mcgee Dr	23149 No Access
206 3400 Simmons Ln	23149 No Access	253 3381 Simmons Ln	23149 No Access
207 3395 Simmons Ln	23061 No Access	254 3379 Simmons Ln	23149 No Access
208 3397 Simmons Ln	23061 No Access	255 3373 Simmons Ln	23149 No Access
209 3398 Simmons Ln	23149 No Access	256 3369 Simmons Ln	23149 No Access
210 3402 Simmons Ln	23149 No Access	257 12525 G Washington Meml Hwy	23149 No Access
211 10251 Rollins Ln	23149 No Access	258 3267 Adner Rd	23149 No Access
212 3393 Simmons Ln	23061 No Access	259 3179 Adner Rd	23149 No Access
213 3356 Dobson Dr	23149 No Access	260 3377 Mcgee Dr	23061 No Access
214 10249 Rollins Ln	23149 No Access	261 3381 Mcgee Dr	23061 No Access
215 3374 Simmons Ln	23061 No Access	262 3379 Mcgee Dr	23061 No Access
216 3349 Dobson Dr	23061 No Access	263 3375 Mcgee Dr	23149 No Access
217 3352 Dobson Dr	23061 No Access	264 3373 Mcgee Dr	23061 No Access
218 10285 Inscoe Ln	23149 No Access	265 3367 Mcgee Dr	23149 No Access
219 10283 Inscoe Ln	23149 No Access	266 3369 Mcgee Dr	23149 No Access
220 3370 Simmons Ln	23149 No Access	267 3371 Mcgee Dr	23149 No Access
221 3354 Dobson Dr	23149 No Access	268 3210 Adner Rd	23149 No Access
222 3350 Dobson Dr	23149 No Access	269 3250 Adner Rd	23149 No Access
223 10282 Inscoe Ln	23149 No Access	270 3387 Simmons Ln	23061 No Access
224 10296 Inscoe Ln	23149 No Access	271 3562 Adkins Ln	23149 No Access
225 10294 Inscoe Ln	23149 No Access	272 3159 Adner Rd	23149 No Access
226 3367 Simmons Ln	23061 No Access	273 3316 Pine View Ln	23149 No Access
227 3365 Simmons Ln	23061 No Access	274 3709 Autrey Ln	23149 No Access
228 10284 Inscoe Ln	23149 No Access	275 3844 Hideaway Hollow Trl	23149 No Access
229 10286 Inscoe Ln	23149 No Access	276 11518 Goodes Ln	23061 No Access
230 10298 Inscoe Ln	23149 No Access	277 14518 G Washington Meml Hwy	23149 No Access
231 10292 Inscoe Ln	23149 No Access	278 14091 G Washington Meml Hwy	23149 No Access
232 10290 Inscoe Ln	23149 No Access	279 14167 G Washington Meml Hwy	23149 No Access
233 10288 Inscoe Ln	23149 No Access	280 14261 G Washington Meml Hwy	23149 No Access
234 10250 Rollins Ln	23149 No Access	281 14301 G Washington Meml Hwy	23149 No Access
235 3386 Rodney Rd	23061 No Access	282 14481 G Washington Meml Hwy	23149 No Access

283 14465 G Washington Meml Hwy	23149 No Access	330 3920 Owl Trap Rd	23061 No Access
284 14219 G Washington Meml Hwy	23149 No Access	331 14235 G Washington Meml Hwy	23149 No Access
285 3777 Pickett Ln	23149 No Access	332 3017 Adner Rd	23149 No Access
286 14188 G Washington Meml Hwy	23149 No Access	333 11363 Goodes Ln	23149 No Access
287 14258 G Washington Meml Hwy	23149 No Access	334 3340 Rich Ln	23149 No Access
288 14214 G Washington Meml Hwy	23149 No Access	335 3651 Owl Trap Rd	23149 No Access
289 12200 Bland Hills Ln	23149 No Access	336 2938 Pierce Rd	23149 No Access
290 14721 G Washington Meml Hwy	23149 No Access	337 3691 Pickett Ln	23149 No Access
291 14761 G Washington Meml Hwy	23149 No Access	338 13382 G Washington Meml Hwy	23149 No Access
292 12977 Northwoods Ln	23149 No Access	339 3695 Pickett Ln	23149 No Access
293 3817 Hideaway Hollow Trl	23149 No Access	340 3676 Autrey Ln	23149 No Access
294 3860 Hideaway Hollow Trl	23149 No Access	341 2728 Lawler Rd	23149 No Access
295 14671 G Washington Meml Hwy	23149 No Access	342 11592 Palmer Pl	23149 No Access
296 3372 Lewis B Puller Memorial Hwy	23149 No Access	343 3445 Forest Ln	23149 No Access
297 12707 Oakley Ln	23149 No Access	344 12423 Blands Farm Rd	23149 No Access
298 3128 Pierce Rd	23149 No Access	345 3747 Owl Trap Rd	23149 No Access

299 3153 Pierce Rd	23149 No Access	346 11335 Lee Rd	23149 No Access
300 3117 Pierce Rd	23149 No Access	347 12547 C W Davis Way	23149 No Access
301 3026 Pierce Rd	23149 No Access	348 3110 Adner Rd	23149 No Access
302 3056 Pierce Rd	23149 No Access	349 11477 Lee Rd	23149 No Access
303 3051 Pierce Rd	23149 No Access	350 13649 G Washington Meml Hwy	23149 No Access
304 3021 Pierce Rd	23149 No Access	351 2573 Wright Rd	23149 No Access
305 12675 Purple Martin Ln	23149 No Access	352 12702 G Washington Meml Hwy	23061 No Access
306 12664 Purple Martin Ln	23149 No Access	353 3488 Autrey Ln	23149 No Access
307 2761 Lewis B Puller Memorial Hwy	23149 No Access	354 11659 Mitchell Rd	23149 No Access
308 2745 Pierce Rd	23149 No Access	355 3663 Owl Trap Rd	23149 No Access
309 13160 Northwoods Ln	23149 No Access	356 12565 C W Davis Way	23149 No Access
310 12955 Oakley Ln	23149 No Access	357 13344 G Washington Meml Hwy	23149 No Access
311 3292 Rich Ln	23149 No Access	358 3693 Pickett Ln	23149 No Access
312 14833 G Washington Meml Hwy	23149 No Access	359 2678 Lees Neck Farm Rd	23149 No Access
313 3095 Adner Rd	23149 No Access	360 2554 Wright Rd	23149 No Access
314 13782 G Washington Meml Hwy	23149 No Access	361 12863 G Washington Meml Hwy	23061 No Access
315 13417 G Washington Meml Hwy	23149 No Access	362 12318 Blands Farm Rd	23149 No Access
316 11482 Goodes Ln	23149 No Access	363 12329 Blands Farm Rd	23149 No Access
317 2480 Lees Neck Farm Rd	23149 No Access	364 3015 Adner Rd	23149 No Access
318 3733 Pickett Ln	23149 No Access	365 12878 G Washington Meml Hwy	23149 No Access
319 14425 G Washington Meml Hwy	23149 No Access	366 12330 Blands Farm Rd	23149 No Access
320 11571 Lee Rd	23149 No Access	367 11626 Mitchell Rd	23149 No Access
321 12730 G Washington Meml Hwy	23149 No Access	368 11271 Goodes Ln	23149 No Access
322 3419 Orchard Hill Rd	23149 No Access	369 11419 Goodes Ln	23149 No Access
323 3493 Autrey Ln	23149 No Access	370 2895 Pierce Rd	23149 No Access
324 3241 Forest Ln	23149 No Access	371 14531 G Washington Meml Hwy	23149 No Access
325 2633 Lees Neck Farm Rd	23149 No Access	372 11623 Palmer Pl	23149 No Access
326 12885 G Washington Meml Hwy	23149 No Access	373 2441 Lees Neck Farm Rd	23149 No Access
327 3321 Rich Ln	23149 No Access	374 3652 Adkins Ln	23149 No Access
328 3542 Autrey Ln	23149 No Access	375 2600 Wright Rd	23149 No Access
329 14241 G Washington Meml Hwy	23149 No Access	376 11514 Farm Rd	23149 No Access

Zone 2		Broadband		Zone 2		Broadband	
Address	ZIPCODE	Status		Address	ZIPCODE	Status	
377 11703 Mitchell Rd	23149	No Access		424 13011 Northwoods Ln	23149	No Access	
378 3675 Owl Trap Rd	23149	No Access		425 2866 Lees Neck Farm Rd	23149	No Access	
379 3812 Owl Trap Rd	23149	No Access		426 3279 Forest Ln	23149	No Access	
380 11681 Owl Trap Ln	23149	No Access		427 11313 Farm Rd	23149	No Access	
381 11705 Owl Trap Ln	23149	No Access		428 12600 C W Davis Way	23149	No Access	
382 11379 Lee Rd	23149	No Access		429 12525 Blands Farm Rd	23149	No Access	
383 3344 Forest Ln	23149	No Access		430 12131 Bland Hills Ln	23149	No Access	
384 3270 Forest Ln	23149	No Access		431 3080 Lees Neck Farm Rd	23149	No Access	
385 3644 Autrey Ln	23061	No Access		432 3087 Lewis B Puller Memorial Hwy	23149	No Access	
386 3718 Autrey Ln	23149	No Access		433 2614 Wright Rd	23149	No Access	
387 10878 Lees Landing Ln	23149	No Access		434 2605 Wright Rd	23149	No Access	
388 3119 Adner Rd	23061	No Access		435 12328 Blands Farm Rd	23149	No Access	
389 3385 Mcgee Dr	23061	No Access		436 14239 G Washington Meml Hwy	23149	No Access	
390 3384 Rodney Rd	23061	No Access		437 3341 Lees Neck Farm Rd	23149	No Access	
391 3667 Autrey Ln	23149	No Access		438 3107 Adner Rd	23149	No Access	
392 3348 Orchard Hill Rd	23149	No Access		439 3170 Toms Hill Rd	23149	No Access	
393 12784 Oakley Ln	23149	No Access		440 14245 Filly Run Rd	23149	No Access	
394 3414 Lees Neck Farm Rd	23149	No Access		441 11221 Goodes Ln	23149	No Access	
395 11312 Farm Rd	23149	No Access		442 2380 Lees Neck Farm Rd	23149	No Access	
396 2463 Lees Neck Farm Rd	23149	No Access		443 13013 Northwoods Ln	23149	No Access	
397 13029 Oakley Ln	23149	No Access		444 14711 G Washington Meml Hwy	23149	No Access	
398 11706 Mitchell Rd	23149	No Access		445 11782 Owl Trap Ln	23149	No Access	

399 12634 Purple Martin Ln	23149 No Access	446 11473 Lee Rd	23149 No Access
400 11454 Farm Rd	23149 No Access	447 2776 Lees Neck Farm Rd	23149 No Access
401 12578 C W Davis Way	23149 No Access	448 3385 Toms Hill Rd	23149 No Access
402 13174 G Washington Meml Hwy	23149 No Access	449 11307 Farm Rd	23149 No Access
403 2658 Lees Neck Farm Rd	23149 No Access	450 11524 Farm Rd	23149 No Access
404 12906 Northwoods Ln	23149 No Access	451 3328 Pine View Ln	23149 No Access
405 3401 Rich Ln	23149 No Access	452 11512 Farm Rd	23149 No Access
406 3515 Adkins Ln	23149 No Access	453 3192 Adner Rd	23149 No Access
407 12847 G Washington Meml Hwy	23149 No Access	454 3682 Autrey Ln	23149 No Access
408 3194 Adner Rd	23061 No Access	455 2962 Adner Rd	23149 No Access
409 3431 Rich Ln	23149 No Access	456 13671 G Washington Meml Hwy	23149 No Access
410 11349 Farm Rd	23149 No Access	457 3054 Toms Hill Rd	23149 No Access
411 3158 Adner Rd	23149 No Access	458 3343 Forest Ln	23149 No Access
412 3053 Lees Neck Farm Rd	23149 No Access	459 12705 G Washington Meml Hwy	23149 No Access
413 11667 Owl Trap Ln	0 No Access	460 12161 Bland Hills Ln	23149 No Access
414 3130 Lees Neck Farm Rd	23149 No Access	461 3698 Adkins Ln	23149 No Access
415 3539 Autrey Ln	23061 No Access	462 3254 Pine View Ln	23149 No Access
416 12833 G Washington Meml Hwy	23149 No Access	463 3244 Forest Ln	23149 No Access
417 3563 Autrey Ln	23149 No Access	464 3137 Lees Neck Farm Rd	23149 No Access
418 3190 Adner Rd	23149 No Access	465 3683 Owl Trap Rd	23149 No Access
419 11325 Farm Rd	23149 No Access	466 2927 Lees Neck Farm Rd	23149 No Access
420 11309 Farm Rd	23149 No Access	467 2959 Lees Neck Farm Rd	23149 No Access
421 3325 Forest Ln	23149 No Access	468 14743 G Washington Meml Hwy	23149 No Access
422 13061 Northwoods Ln	23149 No Access	469 3138 Lees Neck Farm Rd	23149 No Access
423 3551 Adkins Ln	23149 No Access	470 12881 G Washington Meml Hwy	23149 No Access

Zone 2

Broadband

Address

ZIPCODE Status

471 11506 Lee Rd	23149 No Access
472 13257 Northwoods Ln	23149 No Access
473 11796 Owl Trap Ln	23149 No Access
474 2508 Wright Rd	23149 No Access
475 3263 Rich Ln	23149 No Access
476 3508 Adkins Ln	23149 No Access
477 3488 Toms Hill Rd	23149 No Access
478 13003 G Washington Meml Hwy	23149 No Access
479 12991 G Washington Meml Hwy	23149 No Access
480 12971 G Washington Meml Hwy	23149 No Access
481 12969 G Washington Meml Hwy	23149 No Access
482 12967 G Washington Meml Hwy	23149 No Access
483 12965 G Washington Meml Hwy	23149 No Access

92% Unserved - 40 structures with service and 443 w/out

Zone 3		Broadband	
Address	ZIPCODE	Status	
1 10805 Buchanan Ln	23061	No Access	
2 10347 Tyler Ln	23061	No Access	
3 5842 Fletcher Rd	23061	No Access	
4 5634 Galomy Ln	23061	No Access	
5 10362 Tyler Ln	23061	No Access	
6 10787 Graceland Farms Ln	23061	No Access	
7 10518 Buchanan Ln	23061	No Access	
8 10982 Graceland Farms Ln	23061	No Access	
9 10778 Buchanan Ln	23061	No Access	
10 10369 Tyler Ln	23061	No Access	
11 5632 Galomy Ln	23061	No Access	
12 10749 Graceland Farms Ln	23061	No Access	
13 5680 Galomy Ln	23061	No Access	
14 10675 Graceland Farms Ln	23061	No Access	
15 10829 Graceland Farms Ln	23061	No Access	
16 5872 Fletcher Rd	23061	No Access	
17 10570 Buchanan Ln	23061	No Access	
18 5792 Fletcher Rd	23061	No Access	
100% Unserved			

Zone 4		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 2827 Notta Rd	23061	Has Access	48 9147 Norseman Ln	23061	No Access
2 3054 Millers Landing Rd	23061	Has Access	49 2909 Millers Landing Rd	23061	No Access
3 2785 Notta Rd	23061	Has Access	50 8975 Halls Creek Rd	23061	No Access
4 8683 Boothes Haven Rd	23061	Has Access	51 8978 Twin Rivers Ln	23061	No Access
5 2928 Millers Landing Rd	23061	Has Access	52 2807 Notta Rd	23061	No Access
6 9042 Twin Rivers Ln	23061	No Access	53 2882 High Point Ln	23061	No Access
7 9018 Twin Rivers Ln	23061	No Access	54 3001 Millers Landing Rd	23061	No Access
8 9000 Twin Rivers Ln	23061	No Access	55 9040 Norseman Ln	23061	No Access
9 9066 Halls Creek Rd	23061	No Access	56 9001 Halls Creek Rd	23061	No Access
10 9172 Poropotank River Rd	23061	No Access	57 3000 High Point Ln	23061	No Access
11 9180 Poropotank River Rd	23061	No Access	58 2935 Millers Landing Rd	23061	No Access
12 9065 Norseman Ln	23061	No Access	59 2965 High Point Ln	23061	No Access
13 9092 Norseman Ln	23061	No Access	60 3002 Millers Landing Rd	23061	No Access
14 9107 Norseman Ln	23061	No Access	61 2694 High Point Ln	23061	No Access
15 9132 Norseman Ln	23061	No Access	62 2812 High Point Ln	23061	No Access
16 9175 Poropotank River Rd	23061	No Access	63 2927 Millers Landing Rd	23061	No Access
17 2946 Millers Landing Rd	23061	No Access	64 2874 High Point Ln	23061	No Access
18 2956 Millers Landing Rd	23061	No Access	65 2931 Millers Landing Rd	23061	No Access
19 9226 Poropotank River Rd	23061	No Access	66 2987 High Point Ln	23061	No Access
20 3123 Millers Landing Rd	23061	No Access	67 8939 Halls Creek Rd	23061	No Access
21 3063 Millers Landing Rd	23061	No Access	68 9035 Norseman Ln	23061	No Access
22 2995 Millers Landing Rd	23061	No Access	69 9031 Norseman Ln	23061	No Access
23 3027 Millers Landing Rd	23061	No Access	70 2889 Millers Landing Rd	23061	No Access
24 2895 Millers Landing Rd	23061	No Access	71 3047 Millers Landing Rd	23061	No Access
25 2860 Millers Landing Rd	23061	No Access	72 8999 Twin Rivers Ln	23061	No Access
26 8960 Norseman Ln	23061	No Access	93% Unserved - 5 structures with service and 67 w/out		
27 8963 Norseman Ln	23061	No Access			
28 8954 Halls Creek Rd	23061	No Access			
29 8688 Boothes Haven Rd	23061	No Access			
30 8681 Boothes Haven Rd	23061	No Access			
31 2906 High Point Ln	23061	No Access			
32 2878 High Point Ln	23061	No Access			
33 2799 High Point Ln	23061	No Access			
34 2851 High Point Ln	23061	No Access			
35 2739 High Point Ln	23061	No Access			
36 2855 Notta Rd	23061	No Access			
37 2848 Notta Rd	23061	No Access			
38 2886 Franklins Tower Ln	23061	No Access			
39 8684 Boothes Haven Rd	23061	No Access			
40 8965 Halls Creek Rd	23061	No Access			
41 9178 Poropotank River Rd	23061	No Access			
42 2963 Millers Landing Rd	23061	No Access			
43 2921 High Point Ln	23061	No Access			
44 2813 High Point Ln	23061	No Access			
45 2969 High Point Ln	23061	No Access			
46 9030 Twin Rivers Ln	23061	No Access			
47 3034 Millers Landing Rd	23061	No Access			

Zone 5			Broadband		Broadband		
Address	ZIPCODE	Status	Address	ZIPCODE	Status		
1 8081 Crystal Ln	23061	Has Access	48 2739 Island Rd	23061	No Access		
2 8099 Big Oak Ln	23061	No Access	49 2430 Starvation Rd	23061	No Access		
3 8044 Big Oak Ln	23061	No Access	50 2486 Starvation Rd	23061	No Access		
4 8050 Big Oak Ln	23061	No Access	51 7940 Adams Creek Rd	23061	No Access		
5 8114 Crystal Ln	23061	No Access	52 2587 Pine Top Ln	23061	No Access		
6 8112 Adams Creek Rd	23061	No Access	53 2443 Island Rd	23061	No Access		
7 8064 Adams Creek Rd	23061	No Access	54 2713 Island Rd	23061	No Access		
8 8060 Adams Creek Rd	23061	No Access	55 2496 Pine Top Ln	23061	No Access		
9 8084 Adams Creek Rd	23061	No Access	56 2799 Island Rd	23061	No Access		
10 8100 Adams Creek Rd	23061	No Access	57 2825 Island Rd	23061	No Access		
11 8053 Adams Creek Rd	23061	No Access	58 2768 Island Rd	23061	No Access		
12 8048 Adams Creek Rd	23061	No Access	59 2463 Island Rd	23061	No Access		
13 8030 Crystal Ln	23061	No Access	60 8068 Adams Creek Rd	23061	No Access		
14 2372 Starvation Rd	23061	No Access	61 2499 Adams Creek View Ln	23061	No Access		
15 2436 Starvation Rd	23061	No Access	62 7951 Adams Creek Rd	23061	No Access		
16 2464 Starvation Rd	23061	No Access	63 8109 Crystal Ln	23061	No Access		
17 2584 Starvation Rd	23061	No Access	98% Unserved - 1 structure with service and 62 without				
18 2975 Island Rd	23061	No Access					
19 2805 Island Rd	23061	No Access					
20 2310 Island Rd	23061	No Access					
21 2466 Adams Creek View Ln	23061	No Access					
22 2450 Island Rd	23061	No Access					
23 2550 Island Rd	23061	No Access					
24 2425 Island Rd	23061	No Access					
25 2609 Island Rd	23061	No Access					
26 7905 Adams Creek Rd	23061	No Access					
27 7962 Adams Creek Rd	23061	No Access					
28 7967 Adams Creek Rd	23061	No Access					
29 2486 Adams Creek View Ln	23061	No Access					
30 2652 Island Rd	23061	No Access					
31 2645 Island Rd	23061	No Access					
32 8133 Adams Creek Rd	23061	No Access					
33 8103 Adams Creek Rd	23061	No Access					
34 7953 Adams Creek Rd	23061	No Access					
35 2496 Starvation Rd	23061	No Access					
36 2635 Island Rd	23061	No Access					
37 2392 Starvation Rd	23061	No Access					
38 8019 Crystal Ln	23061	No Access					
39 8122 Crystal Ln	23061	No Access					
40 8115 Adams Creek Rd	23061	No Access					
41 2801 Island Rd	23061	No Access					
42 2854 Island Rd	23061	No Access					
43 2402 Adams Creek View Ln	23061	No Access					
44 2679 Island Rd	23061	No Access					
45 2795 Island Rd	23061	No Access					
46 2777 Island Rd	23061	No Access					
47 2573 Pine Top Ln	23061	No Access					

Zone 6		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 8053 Willis Rd	23061	No Access	47 4613 New Landing Rd	23061	No Access
2 8067 Willis Rd	23061	No Access	48 7931 Willis Rd	23061	No Access
3 8147 Willis Rd	23061	No Access	49 7943 Willis Rd	23061	No Access
4 8603 Willis Rd	23061	No Access	50 7520 Willis Rd	23061	No Access
5 8639 Willis Rd	23061	No Access	51 7584 Willis Rd	23061	No Access
6 8439 Willis Rd	23061	No Access	52 7745 Willis Rd	23061	No Access
7 8559 Willis Rd	23061	No Access	53 7582 Willis Rd	23061	No Access
8 8371 Willis Rd	23061	No Access	54 4726 Westmill Rd	23061	No Access
9 8381 Willis Rd	23061	No Access	55 7406 Willis Rd	23061	No Access
10 8411 Willis Rd	23061	No Access	56 7444 Willis Rd	23061	No Access
11 8031 Willis Rd	23061	No Access	57 4594 Westmill Rd	23061	No Access
12 8079 Willis Rd	23061	No Access	58 8539 Willis Rd	23061	No Access
13 8129 Willis Rd	23061	No Access	59 4656 Westmill Rd	23061	No Access
14 4317 Lockmorr Ln	23061	No Access	100% Unserved		
15 7550 Willis Rd	23061	No Access			
16 7658 Willis Rd	23061	No Access			
17 7727 Willis Rd	23061	No Access			
18 7807 Willis Rd	23061	No Access			
19 7899 Willis Rd	23061	No Access			
20 8122 Willis Rd	23061	No Access			
21 4313 Lockmorr Ln	23061	No Access			
22 8575 Willis Rd	23061	No Access			
23 7722 Willis Rd	23061	No Access			
24 7921 Willis Rd	23061	No Access			
25 7913 Willis Rd	23061	No Access			
26 8049 Willis Rd	23061	No Access			
27 7911 Willis Rd	23061	No Access			
28 4395 Lockmorr Ln	23061	No Access			
29 4355 Lockmorr Ln	23061	No Access			
30 8513 Willis Rd	23061	No Access			
31 8417 Willis Rd	23061	No Access			
32 8105 Willis Rd	23061	No Access			
33 8117 Willis Rd	23061	No Access			
34 8093 Willis Rd	23061	No Access			
35 7879 Willis Rd	23061	No Access			
36 4337 Lockmorr Ln	23061	No Access			
37 4404 Lockmorr Ln	23061	No Access			
38 8387 Willis Rd	23061	No Access			
39 8288 Willis Rd	23061	No Access			
40 7484 Willis Rd	23061	No Access			
41 7460 Willis Rd	23061	No Access			
42 4531 New Landing Rd	23061	No Access			
43 7553 Willis Rd	23061	No Access			
44 7555 Willis Rd	23061	No Access			
45 4591 New Landing Rd	23061	No Access			
46 7644 Willis Rd	23061	No Access			

Zone 7**Broadband**

Address	ZIPCODE	Status
1 3813 Brumfield Ln	23061	Has Access
2 6737 Olivis Rd	23061	No Access
3 3735 Morris Farm Ln	23061	No Access
4 4017 Valley Front Ln	23061	No Access
5 4014 Valley Front Ln	23061	No Access
6 6874 Burgess Rd	23061	No Access
7 3420 Morris Farm Ln	23061	No Access
8 3321 Morris Farm Ln	23061	No Access
9 3319 Morris Farm Ln	23061	No Access
10 3397 Morris Farm Ln	23061	No Access
11 3578 Morris Farm Ln	23061	No Access
12 3694 Morris Farm Ln	23061	No Access
13 6453 Silky Way	23061	No Access
14 6675 Olivis Rd	23061	No Access
15 3334 Morris Farm Ln	23061	No Access
16 6407 Silky Way	23061	No Access
17 6583 Olivis Rd	23061	No Access
18 6584 Olivis Rd	23061	No Access
19 6731 Burgess Rd	23061	No Access
20 3461 Morris Farm Ln	23061	No Access
21 4350 Valley Front Ln	23061	No Access
22 4224 Valley Front Ln	23061	No Access
23 6493 Cowpen Neck Rd	23061	No Access
24 6405 Silky Way	23061	No Access
25 3608 Morris Farm Ln	23061	No Access
26 6803 Olivis Rd	23061	No Access
27 4161 Valley Front Ln	23061	No Access
28 4105 Valley Front Ln	23061	No Access
29 4056 Valley Front Ln	23061	No Access

97% Unservd - 1 structure with service and 28without

Zone 8		Broadband
Address	ZIPCODE	Status
1 4705 Elizabeth Ln	23061	Has Access
2 4685 Elizabeth Ln	23061	Has Access
3 7037 Rosehill Rd	23061	No Access
4 7097 Rosehill Rd	23061	No Access
5 5026 Elizabeth Ln	23061	No Access
6 5136 Kathy Ln	23061	No Access
7 5082 Kathy Ln	23061	No Access
8 7121 Rosehill Rd	23061	No Access
9 7130 Rosehill Rd	23061	No Access
10 5196 Kathy Ln	23061	No Access
11 4966 Elizabeth Ln	23061	No Access
12 4956 Walnut Hill Farm Rd	23061	No Access
13 4971 Walnut Hill Farm Rd	23061	No Access
14 4940 Elizabeth Ln	23061	No Access
15 5134 Kathy Ln	23061	No Access
16 4938 Elizabeth Ln	23061	No Access
17 4814 Elizabeth Ln	23061	No Access
18 4891 Walnut Hill Farm Rd	23061	No Access
19 4764 Elizabeth Ln	23061	No Access
20 4644 Elizabeth Ln	23061	No Access
21 5107 Kathy Ln	23061	No Access
22 4851 Elizabeth Ln	23061	No Access

91% Unserved - 2 structures with service and 20 w/out

Zone 9	Broadband	
Address	ZIPCODE	Status
1 7292 Featherbed Ln	23061	No Access
2 7971 Severn Hall Ln	23061	No Access
3 7312 Featherbed Ln	23061	No Access
4 7810 O Neil Rd	23061	No Access
5 7847 O Neil Rd	23061	No Access
6 7851 O Neil Rd	23061	No Access
7 7910 O Neil Rd	23061	No Access
8 7814 O Neil Rd	23061	No Access
9 4568 Jameslin Dr	23061	No Access
10 4589 Jameslin Dr	23061	No Access
11 4567 Osprey Ln	23061	No Access
12 4750 Warner Hall Rd	23061	No Access
13 4790 Warner Hall Rd	23061	No Access
14 7408 Featherbed Ln	23061	No Access
15 7294 Featherbed Ln	23061	No Access
16 7219 Featherbed Ln	23061	No Access
17 4650 Warner Hall Rd	23061	No Access
18 7650 Featherbed Ln	23061	No Access
19 7438 Featherbed Ln	23061	No Access
20 7855 Severn Hall Ln	23061	No Access
21 7969 Severn Hall Ln	23061	No Access
22 7965 Severn Hall Ln	23061	No Access
23 7252 Featherbed Ln	23061	No Access
24 7914 O Neil Rd	23061	No Access
25 4477 Osprey Ln	23061	No Access
26 7959 Severn Hall Ln	23061	No Access
27 4370 Outapocket Ln	23061	No Access
28 7973 Severn Hall Ln	23061	No Access
29 4523 Osprey Ln	23061	No Access
30 7818 O Neil Rd	23061	No Access
31 7791 O Neil Rd	23061	No Access
32 4282 Outapocket Ln	23061	No Access
33 4274 Outapocket Ln	23061	No Access
34 7711 O Neil Rd	23061	No Access
35 7812 O Neil Rd	23061	No Access
100% Unserved		

Zone 10			Broadband		
Address	ZIPCODE	Broadband Status	Address	ZIPCODE	Status
1 9247 Robins Neck Rd	23061	Has Access	48 5350 Sherwood Ln	23061	No Access
2 9557 Robins Neck Rd	23061	Has Access	49 5470 Sherwood Ln	23061	No Access
3 9511 Robins Neck Rd	23061	Has Access	50 9046 Nelson Wood Ln	23061	No Access
4 9701 Robins Neck Rd	23061	Has Access	92% Unserved - 4 structures with service and 46 w/out		
5 8385 Robins Neck Rd	23061	No Access			
6 5218 Sherwood Ln	23061	No Access			
7 5383 Mobjack Rd	23061	No Access			
8 5068 Mobjack Rd	23061	No Access			
9 5447 Mobjack Rd	23061	No Access			
10 5461 Mobjack Rd	23061	No Access			
11 5413 Mobjack Rd	23061	No Access			
12 5419 Mobjack Rd	23061	No Access			
13 5711 Mobjack Rd	23061	No Access			
14 5042 Sherwood Ln	23061	No Access			
15 8880 Nelson Wood Ln	23061	No Access			
16 8854 Nelson Wood Ln	23061	No Access			
17 8821 Nelson Wood Ln	23061	No Access			
18 8841 Nelson Wood Ln	23061	No Access			
19 9031 Nelson Wood Ln	23061	No Access			
20 5530 Sherwood Ln	23061	No Access			
21 5442 Sherwood Ln	23061	No Access			
22 5434 Sherwood Ln	23061	No Access			
23 5384 Sherwood Ln	23061	No Access			
24 9208 Greenway Farm Ln	23061	No Access			
25 9109 Greenway Farm Ln	23061	No Access			
26 4473 The Corduroy	23061	No Access			
27 9712 Robins Neck Rd	23061	No Access			
28 4464 School House Rd	23061	No Access			
29 4442 School House Rd	23061	No Access			
30 9714 Robins Neck Rd	23061	No Access			
31 4688 School House Rd	23061	No Access			
32 9530 Whittaker Dr	23061	No Access			
33 9524 Whittaker Dr	23061	No Access			
34 4204 Lands End Rd	23061	No Access			
35 9870 Bay Cottage Ln	23061	No Access			
36 4352 The Corduroy	23061	No Access			
37 9916 Bay Cottage Ln	23061	No Access			
38 9926 Bay Cottage Ln	23061	No Access			
39 4477 The Corduroy	23061	No Access			
40 8967 Nelson Wood Ln	23061	No Access			
41 4481 The Corduroy	23061	No Access			
42 4475 The Corduroy	23061	No Access			
43 8906 Nelson Wood Ln	23061	No Access			
44 5697 Mobjack Rd	23061	No Access			
45 5685 Mobjack Rd	23061	No Access			
46 5729 Mobjack Rd	23061	No Access			
47 5741 Mobjack Rd	23061	No Access			

Zone 11		Broadband	
Address	ZIPCODE	Status	
1 6773 Hickory Knoll Rd	23061	No Access	
2 6844 Enfield Rd	23061	Has Access	
3 6697 Hickory Knoll Rd	23061	No Access	
4 6973 Hickory Knoll Ln	23061	No Access	
5 6484 Hickory Knoll Rd	23061	No Access	
6 6565 Hickory Knoll Rd	23061	No Access	
7 6956 Hickory Knoll Ln	23061	No Access	
8 6595 Hickory Knoll Rd	23061	No Access	
9 6972 Hickory Knoll Ln	23061	No Access	
10 6912 Hickory Knoll Ln	23061	No Access	
11 6477 Hickory Knoll Rd	23061	No Access	
12 6525 Hickory Knoll Rd	23061	No Access	
13 6937 Hickory Knoll Ln	23061	No Access	
14 6596 Hickory Knoll Rd	23061	No Access	
15 6536 Hickory Knoll Rd	23061	No Access	
16 6662 Hickory Knoll Rd	23061	No Access	
17 6724 Hickory Knoll Rd	23061	No Access	
18 6599 Hickory Knoll Rd	23061	No Access	

94% Unservd - 1 structure with service and 17 w/out

Zone 12		Broadband
Address	ZIPCODE	Status
1 6669 Muggins Creek Rd	23061	No Access
2 6655 Muggins Creek Rd	23061	No Access
3 6722 Muggins Creek Rd	23061	No Access
4 6726 Muggins Creek Rd	23061	No Access
5 6710 Muggins Creek Rd	23061	No Access
6 6645 Muggins Creek Rd	23061	No Access
7 6573 Muggins Creek Rd	23061	No Access
8 6577 Muggins Creek Rd	23061	No Access
9 6587 Muggins Creek Rd	23061	No Access
10 6675 Muggins Creek Rd	23061	No Access
11 6651 Muggins Creek Rd	23061	No Access
12 6736 Muggins Creek Rd	23061	No Access
13 6740 Muggins Creek Rd	23061	No Access
100% Unserved		

Zone 13		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 6671 Tappan Ln	23061	Has Access	47 6250 Green Cove Ln	23061	No Access
2 6304 Old Swimmin Hole Ln	23061	Has Access	48 9465 Bay Meadows Rd	23061	No Access
3 4707 Ware Neck Rd	23061	No Access	49 9461 Bay Meadows Rd	23061	No Access
4 6627 Tappan Ln	23061	No Access	50 6260 Old Swimmin Hole Ln	23061	No Access
5 6649 Tappan Ln	23061	No Access	51 6272 Old Swimmin Hole Ln	23061	No Access
6 6663 Tappan Ln	23061	No Access	52 6259 Ware Point Rd	23061	No Access
7 6572 Tappan Ln	23061	No Access	53 6298 Ware Point Rd	23061	No Access
8 6644 Riverview Inn Ln	23061	No Access	54 6318 Ware Point Rd	23061	No Access
9 6681 Northwind Ln	23061	No Access	55 6305 Old Swimmin Hole Ln	23061	No Access
10 6705 Northwind Ln	23061	No Access	56 9812 Eastwind Rd	23061	No Access
11 6678 Northwind Ln	23061	No Access	57 9802 Eastwind Rd	23061	No Access
12 6704 Northwind Ln	23061	No Access	58 6392 Ware Point Rd	23061	No Access
13 6658 Riverview Inn Ln	23061	No Access	59 6414 Ware Point Rd	23061	No Access
14 6666 Riverview Inn Ln	23061	No Access	60 6352 Old Swimmin Hole Ln	23061	No Access
15 4862 Ware Neck Rd	23061	No Access	61 9817 Eastwind Rd	23061	No Access
16 4724 Ware Neck Rd	23061	No Access	62 9827 Eastwind Rd	23061	No Access
17 9662 Five Point Rd	23061	No Access	63 6435 Ware Point Rd	23061	No Access
18 9684 Five Point Rd	23061	No Access	64 6436 Ware Point Rd	23061	No Access
19 9582 Five Point Rd	23061	No Access	65 9827 Wakaigan Ln	23061	No Access
20 9601 Five Point Rd	23061	No Access	66 9828 Wakaigan Ln	23061	No Access
21 9599 Five Point Rd	23061	No Access	67 9782 Wakaigan Ln	23061	No Access
22 9482 Davis Creek Rd	23061	No Access	68 9815 Eastwind Rd	23061	No Access
23 9704 Five Point Rd	23061	No Access	69 5853 Ware Point Ln	23061	No Access
24 9507 Davis Creek Rd	23061	No Access	70 5873 Ware Point Ln	23061	No Access
25 9461 Davis Creek Rd	23061	No Access	71 5885 Ware Point Ln	23061	No Access
26 9473 Davis Creek Rd	23061	No Access	72 5606 Ware Point Rd	23061	No Access
27 9730 Mariners Watch Ln	23061	No Access	73 5655 Ware Point Rd	23061	No Access
28 6839 Cabin Ln	23061	No Access	74 5840 Ware Point Rd	23061	No Access
29 9756 Mariners Watch Ln	23061	No Access	75 5905 Ware Point Ln	23061	No Access
30 9734 Mariners Watch Ln	23061	No Access	76 5915 Ware Point Ln	23061	No Access
31 9508 Mariners Watch Ln	23061	No Access	77 5750 Ware Point Rd	23061	No Access
32 6849 Cabin Ln	23061	No Access	78 6668 Northwind Ln	23061	No Access
33 9574 Lightview Ln	23061	No Access	79 5699 Ware Point Rd	23061	No Access
34 6928 Cabin Ln	23061	No Access	80 9694 Mariners Watch Ln	23061	No Access
35 9823 Wakaigan Ln	23061	No Access	81 6662 Baiae Ln	23061	No Access
36 6557 Tappan Ln	23061	No Access	82 9685 Five Point Rd	23061	No Access
37 9514 Lightview Ln	23061	No Access	83 6322 Old Swimmin Hole Ln	23061	No Access
38 9478 Bay Meadows Rd	23061	No Access	84 5683 Ware Point Rd	23061	No Access
39 9415 Bay Meadows Rd	23061	No Access	85 5590 Ware Point Rd	23061	No Access
40 6334 Old Swimmin Hole Ln	23061	No Access	86 6647 Northwind Ln	23061	No Access
41 5926 Ware Point Rd	23061	No Access	87 5741 Ware Point Rd	23061	No Access
42 5992 Ware Point Rd	23061	No Access	88 5759 Ware Point Rd	23061	No Access
43 6002 Ware Point Rd	23061	No Access	89 6268 Ware Point Rd	23061	No Access
44 6223 Ware Point Rd	23061	No Access	90 9826 Mobjack View Ln	23061	No Access
45 9755 Mobjack View Ln	23061	No Access			
46 6179 Green Cove Ln	23061	No Access			
47 6198 Green Cove Ln	23061	No Access			

98% Unserved - 2 structures with service and 88 w/out

Zone 14**Broadband**

Address	ZIPCODE	Status	
1 7201 Belleville Ln	23061	No Access	14
2 7357 Belleville Ln	23061	No Access	14
3 7365 Belleville Ln	23061	No Access	14
4 7358 Belleville Ln	23061	No Access	14
5 7353 Hope Haven Ln	23061	No Access	14
6 7352 Belleville Ln	23061	No Access	14
7 7375 Hope Haven Ln	23061	No Access	14
8 7401 Hope Haven Ln	23061	No Access	14
9 8800 North River Rd	23061	No Access	14
10 8798 North River Rd	23061	No Access	14
11 8854 North River Rd	23061	No Access	14
12 7215 Belleville Ln	23061	No Access	14
13 7351 Hope Haven Ln	23061	No Access	14
14 8895 North River Rd	23061	No Access	14
100% Unservd			

Zone 15			Broadband			Broadband		
Address	ZIPCODE	Status	Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 8630 Elmington Ln	23061	Has Access	48 8653 Dundee Ln	23061	No Access			
2 8626 Elmington Ln	23061	Has Access	49 8569 Dundee Ln	23061	No Access			
3 8718 Elmington Ln	23061	Has Access	50 8589 Dundee Ln	23061	No Access			
4 8704 Elmington Ln	23061	Has Access	51 8634 Exchange Ln	23061	No Access			
5 8469 Dundee Ln	23061	Has Access	52 7887 Berkshire Ln	23061	No Access			
6 8210 Waverley Ln	23061	No Access	53 8673 Exchange Ln	23061	No Access			
7 8412 Waverley Ln	23061	No Access	54 8350 Daffodil Ln	23061	No Access			
8 8622 Waverley Ln	23061	No Access	55 8719 Burgh Westra Ln	23061	No Access			
9 8602 Waverley Ln	23061	No Access	56 8711 Dundee Ln	23061	No Access			
10 8807 Waverley Ln	23061	No Access	57 7956 Daffodil Ln	23061	No Access			
11 8723 Waverley Ln	23061	No Access	58 8709 Hickston Ln	23061	No Access			
12 8772 Sandie Knowe Ln	23061	No Access	59 7835 Berkshire Ln	23061	No Access			
13 8797 Sandie Knowe Ln	23061	No Access	60 7855 Berkshire Ln	23061	No Access			
14 8751 Waverley Ln	23061	No Access	61 8711 Exchange Ln	23061	No Access			
15 8753 Waverley Ln	23061	No Access	62 8715 Hickston Ln	23061	No Access			
16 8715 Waverley Ln	23061	No Access	63 8708 Hickston Ln	23061	No Access			
17 9091 Midlothian Ln	23061	No Access	64 7466 Flower Field Cir	23061	No Access			
18 8040 Newstead Ln	23061	No Access	65 7409 Heath Trl	23061	No Access			
19 8576 Toddsbury Ln	23061	No Access	66 7454 Flower Field Cir	23061	No Access			
20 8469 Exchange Ln	23061	No Access	67 7438 Creeks End Rd	23061	No Access			
21 8441 Exchange Ln	23061	No Access	68 7502 Creeks End Rd	23061	No Access			
22 8134 Chism Trl	23061	No Access	69 7513 Heath Trl	23061	No Access			
23 8503 G Washington Mem Hwy	23061	No Access	70 7470 Creeks End Rd	23061	No Access			
24 8421 Toddsbury Ln	23061	No Access	71 8602 Matsuda Ln	23061	No Access			
25 8706 Toddsbury Ln	23061	No Access	72 8550 Matsuda Ln	23061	No Access			
26 8879 Waverley Ln	23061	No Access	73 7498 Heath Trl	23061	No Access			
27 8722 Waverley Ln	23061	No Access	74 8850 Waverley Ln	23061	No Access			
28 8788 Waverley Ln	23061	No Access	75 8565 Waverley Ln	23061	No Access			
29 8395 Azalea Bush Ln	23061	No Access	76 8833 Coles Landing Dr	23061	No Access			
30 8389 Azalea Bush Ln	23061	No Access	77 8837 Coles Landing Dr	23061	No Access			
31 8384 Azalea Bush Ln	23061	No Access	78 7461 Heath Trl	23061	No Access			
32 8634 Waverley Ln	23061	No Access	79 8499 Dundee Ln	23061	No Access			
33 8281 Newstead Ln	23061	No Access	80 8704 Exchange Ln	23061	No Access			
34 8277 Newstead Ln	23061	No Access	81 8034 Cloister Dr	23061	No Access			
35 8708 Toddsbury Ln	23061	No Access	82 8640 Burgh Westra Ln	23061	No Access			
36 8777 Toddsbury Ln	23061	No Access	83 7995 Cloister Dr	23061	No Access			
37 8717 Toddsbury Ln	23061	No Access	84 7405 Heath Trl	23061	No Access			
38 8099 Newstead Ln	23061	No Access	85 7504 Creeks End Rd	23061	No Access			
39 8105 Newstead Ln	23061	No Access	86 8132 Chism Trl	23061	No Access			
40 7990 Cloister Dr	23061	No Access	87 8004 Cloister Dr	23061	No Access			
41 7965 Cloister Dr	23061	No Access	88 8166 Chism Trl	23061	No Access			
42 7535 Creeks End Rd	23061	No Access	89 8667 Dundee Ln	23061	No Access			
43 7554 Creeks End Rd	23061	No Access	90 8610 Matsuda Ln	23061	No Access			
44 8392 Daffodil Ln	23061	No Access	91 8168 Chism Trl	23061	No Access			
45 8332 Daffodil Ln	23061	No Access	92 8750 Waverley Ln	23061	No Access			
46 8302 Daffodil Ln	23061	No Access	93 8013 Cloister Dr	23061	No Access			
47 8609 Dundee Ln	23061	No Access	94 8437 Dundee Ln	23061	No Access			

Zone 15			Broadband		
Address	ZIPCODE	Status	Address	ZIPCODE	Status
95 8793 Coles Landing Dr	23061	No Access			
96 8779 Toddsbury Ln	23061	No Access			
97 8771 Waverley Ln	23061	No Access			
98 9076 Midlothian Ln	23061	No Access			

99 8757 Coles Landing Dr	23061 No Access
100 8737 Coles Landing Dr	23061 No Access
101 8765 Coles Landing Dr	23061 No Access
102 8781 Coles Landing Dr	23061 No Access
103 8451 Exchange Ln	23061 No Access
104 7411 Flower Field Cir	23061 No Access
105 8781 Toddsbury Ln	23061 No Access
106 8029 Cloister Dr	23061 No Access
107 8719 Waverley Ln	23061 No Access
108 8718 Burgh Westra Ln	23061 No Access
109 8408 Daffodil Ln	23061 No Access
110 7429 Heath Trl	23061 No Access
111 8306 Daffodil Ln	23061 No Access
112 8713 Waverley Ln	23061 No Access
113 8200 Waverley Ln	23061 No Access
114 8768 Waverley Ln	23061 No Access
115 9082 Midlothian Ln	23061 No Access
116 8333 Toddsbury Ln	23061 No Access
117 8457 Toddsbury Ln	23061 No Access
118 8076 Newstead Ln	23061 No Access
119 8135 Chism Trl	23061 No Access
120 8681 Waverley Ln	23061 No Access
121 7401 Flower Field Cir	23061 No Access
122 8170 Chism Trl	23061 No Access
123 7791 Berkshire Ln	23061 No Access
124 8413 Exchange Ln	23061 No Access
125 8840 Waverley Ln	23061 No Access
126 7966 Cloister Dr	23061 No Access
127 8578 Waverley Ln	23061 No Access
128 8348 Waverley Ln	23061 No Access

96% Unserviced - 5 structures with service and 123 w/out

Zone 16		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 10065 Buckskin Trl	23061	Has Access	48 7856 Birds Nest Ct	23061	No Access
2 7440 Three Hickories Ln	23061	Has Access	49 7859 Birds Nest Ct	23061	No Access
3 8664 Field Family Ln	23061	Has Access	50 7865 Small Stream Ct	23061	No Access
4 8751 Field Family Ln	23061	Has Access	51 7891 Small Stream Ct	23061	No Access
5 8769 Field Family Ln	23061	Has Access	52 7892 Birds Nest Ct	23061	No Access
6 8787 Field Family Ln	23061	Has Access	53 7895 Small Stream Ct	23061	No Access
7 8941 Rangtang Rd	23061	Has Access	54 7902 Small Stream Ct	23061	No Access
8 9496 John Clayton Memorial Hwy	23061	Has Access	55 7905 Small Stream Ct	23061	No Access
9 9564 John Clayton Memorial Hwy	23061	Has Access	56 8021 Beaver Pond Rd	23061	No Access
10 9630 John Clayton Memorial Hwy	23061	Has Access	57 8025 Beaver Pond Rd	23061	No Access
11 9765 Figg Shop Rd	23061	Has Access	58 8037 Cole Ct	23061	No Access
12 9802 Figg Shop Rd	23061	Has Access	59 8067 Cole Ct	23061	No Access
13 9929 Buckskin Trl	23061	Has Access	60 8069 Burke Woods Ct	23061	No Access
14 10002 Buckskin Trl	23061	No Access	61 8074 Cole Ct	23061	No Access
15 10030 Buckskin Trl	23061	No Access	62 8077 Beaver Pond Rd	23061	No Access
16 10037 Buckskin Trl	23061	No Access	63 8084 Burke Woods Ct	23061	No Access
17 10085 Buckskin Trl	23061	No Access	64 8086 Beaver Pond Rd	23061	No Access
18 10086 Buckskin Trl	23061	No Access	65 8099 Cole Ct	23061	No Access
19 7373 The Ponds Rd	23061	No Access	66 8110 Burke Woods Ct	23061	No Access
20 7401 Wagon Run Rd	23061	No Access	67 8114 Burke Woods Ct	23061	No Access
21 7413 The Ponds Rd	23061	No Access	68 8115 Beaver Pond Rd	23061	No Access
22 7435 Wagon Run Rd	23061	No Access	69 8116 Cole Ct	23061	No Access
23 7472 Wagon Run Rd	23061	No Access	70 8119 Cole Ct	23061	No Access
24 7517 Three Hickories Ln	23061	No Access	71 8120 Cole Ct	23061	No Access
25 7519 Three Hickories Ln	23061	No Access	72 8126 Palmetto Rd	23061	No Access
26 7519 Wagon Run Rd	23061	No Access	73 8133 Windsor Hall Rd	23061	No Access
27 7556 Wagon Run Rd	23061	No Access	74 8135 Beaver Pond Rd	23061	No Access
28 7566 Wagon Run Rd	23061	No Access	75 8160 Beaver Pond Rd	23061	No Access
29 7587 Wagon Run Rd	23061	No Access	76 8162 Palmetto Rd	23061	No Access
30 7590 Wagon Run Rd	23061	No Access	77 8163 Beaver Pond Rd	23061	No Access
31 7611 Three Hickories Ln	23061	No Access	78 8168 Palmetto Rd	23061	No Access
32 7624 Wagon Run Rd	23061	No Access	79 8197 Beaver Pond Rd	23061	No Access
33 7635 Wagon Run Rd	23061	No Access	80 8198 Beaver Pond Rd	23061	No Access
34 7663 Three Hickories Ln	23061	No Access	81 8223 Burke Woods Ct	23061	No Access
35 7678 Wagon Run Rd	23061	No Access	82 8235 Beaver Pond Rd	23061	No Access
36 7695 Wagon Run Rd	23061	No Access	83 8236 Burke Woods Ct	23061	No Access
37 7701 Three Hickories Ln	23061	No Access	84 8240 Beaver Pond Rd	23061	No Access
38 7730 Three Hickories Ln	23061	No Access	85 8257 Beaver Pond Rd	23061	No Access
39 7730 Wagon Run Rd	23061	No Access	86 8260 Beaver Pond Rd	23061	No Access
40 7734 Three Hickories Ln	23061	No Access	87 8868 Catapult Ln	23061	No Access
41 7734 Wagon Run Rd	23061	No Access	88 8885 Rangtang Rd	23061	No Access
42 7736 Wagon Run Rd	23061	No Access	89 8909 Rangtang Rd	23061	No Access
43 7744 Wagon Run Rd	23061	No Access	90 8917 Rangtang Rd	23061	No Access
44 7746 Wagon Run Rd	23061	No Access	91 8918 Catapult Ln	23061	No Access
45 7747 Wagon Run Rd	23061	No Access	92 8920 Catapult Ln	23061	No Access
46 7845 Small Stream Ct	23061	No Access	93 8953 Rangtang Rd	23061	No Access
47 7853 Birds Nest Ct	23061	No Access	94 8981 Rangtang Rd	23061	No Access
Zone 16		Broadband			
Address	ZIPCODE	Status			
95 8993 Rangtang Rd	23061	No Access			
96 9001 Rangtang Rd	23061	No Access			
97 9013 Rangtang Rd	23061	No Access			
98 9015 Rangtang Rd	23061	No Access			

99 9019 Rangtang Rd	23061 No Access
100 9039 Rangtang Rd	23061 No Access
101 9053 Rangtang Rd	23061 No Access
102 9085 Catapult Ln	23061 No Access
103 9104 Catapult Ln	23061 No Access
104 9120 Rangtang Rd	23061 No Access
105 9124 Rangtang Rd	23061 No Access
106 9131 Rangtang Rd	23061 No Access
107 9132 Catapult Ln	23061 No Access
108 9139 Sheldon Ln	23061 No Access
109 9151 Rangtang Rd	23061 No Access
110 9196 Sheldon Ln	23061 No Access
111 9216 Rangtang Rd	23061 No Access
112 9229 Burke View Dr	23061 No Access
113 9230 Burke View Dr	23061 No Access
114 9241 Burke View Dr	23061 No Access
115 9242 Burke View Dr	23061 No Access
116 9273 Sheldon Ln	23061 No Access
117 9296 Burke View Dr	23061 No Access
118 9305 Saw Mill Ln	23061 No Access
119 9309 Sheldon Ln	23061 No Access
120 9319 Burke View Dr	23061 No Access
121 9322 Sheldon Ln	23061 No Access
122 9326 Burke View Dr	23061 No Access
123 9329 Saw Mill Ln	23061 No Access
124 9333 Sheldon Ln	23061 No Access
125 9358 Burke View Dr	23061 No Access
126 9361 Sheldon Ln	23061 No Access
127 9375 Burke View Dr	23061 No Access
128 9375 Sheldon Ln	23061 No Access
129 9377 Saw Mill Ln	23061 No Access
130 9386 Sheldon Ln	23061 No Access
131 9402 Sheldon Ln	23061 No Access
132 9414 Burke View Dr	23061 No Access
133 9430 Sheldon Ln	23061 No Access
134 9431 Sheldon Ln	23061 No Access
135 9434 Sheldon Ln	23061 No Access
136 9436 Sheldon Ln	23061 No Access
137 9458 Burke View Dr	23061 No Access
138 9471 Saw Mill Ln	23061 No Access
139 9514 Saw Mill Ln	23061 No Access
140 9536 Heron Ct	23061 No Access
141 9572 Burke View Dr	23061 No Access
142 9577 Burke View Dr	23061 No Access
143 9625 Burke View Dr	23061 No Access
144 9634 Heron Ct	23061 No Access
145 9636 Heron Ct	23061 No Access
146 9638 Heron Ct	23061 No Access
147 9642 Burke View Dr	23061 No Access
148 9660 Heron Ct	23061 No Access
149 9680 Burke View Dr	23061 No Access
150 9723 Burke View Dr	23061 No Access
151 9750 Burke View Dr	23061 No Access
152 9777 Burke View Dr	23061 No Access
153 9789 Honey Tree Ct	23061 No Access

154	9791 Honey Tree Ct	23061	No Access
155	9792 Honey Tree Ct	23061	No Access
156	9796 Honey Tree Ct	23061	No Access
157	9797 Honey Tree Ct	23061	No Access
158	9818 Burke View Dr	23061	No Access
159	9846 Buckskin Trl	23061	No Access
160	9850 Autumn Woods Ln	23061	No Access
161	9851 Autumn Woods Ln	23061	No Access
162	9859 Buckskin Trl	23061	No Access
163	9860 Burke View Dr	23061	No Access
164	9874 Buckskin Trl	23061	No Access
165	9874 Burke View Dr	23061	No Access
166	9880 Burke View Dr	23061	No Access
167	9883 Burke View Dr	23061	No Access
168	9886 Burke View Dr	23061	No Access
169	9891 Honey Tree Ct	23061	No Access
170	9930 Buckskin Trl	23061	No Access
171	9950 Buckskin Trl	23061	No Access
172	9965 Buckskin Trl	23061	No Access
173	9967 Buckskin Trl	23061	No Access
174	9993 Buckskin Trl	23061	No Access

93% Unserved - 13 structures with service and 161 w/out

Zone 17		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 10132 Bumpy Rd	23061	Has Access	48 9099 Beasley Dr	23061	No Access
2 10223 Bumpy Rd	23061	Has Access	49 9086 Beasley Dr	23061	No Access
3 10226 Bumpy Rd	23061	Has Access	50 6602 Jenkins Ln	23061	No Access
4 9929 Indian Rd	23061	Has Access	51 9216 Moran Cir	23061	No Access
5 8559 Indian Rd	23061	Has Access	52 6933 Abbey Rd	23061	No Access
6 6987 Beech Creek Rd	23061	Has Access	53 6855 Abbey Rd	23061	No Access
7 7011 Beech Creek Rd	23061	Has Access	54 6861 Abbey Rd	23061	No Access
8 6984 Deer Stand Dr	23061	Has Access	55 6883 Abbey Rd	23061	No Access
9 8607 Navajo Trl	23061	Has Access	56 9723 Indian Rd	23061	No Access
10 8473 Indian Rd	23061	Has Access	57 9712 Indian Rd	23061	No Access
11 10112 Bumpy Rd	23061	No Access	58 9570 Indian Rd	23061	No Access
12 6589 Ever Green Ln	23061	No Access	59 9492 Indian Rd	23061	No Access
13 6565 Ever Green Ln	23061	No Access	60 6817 Cherokee Ln	23061	No Access
14 10126 Indian Rd	23061	No Access	61 6808 Cherokee Ln	23061	No Access
15 10121 Indian Rd	23061	No Access	62 9192 Indian Rd	23061	No Access
16 10101 Indian Rd	23061	No Access	63 6881 Indian Creek Trl	23061	No Access
17 9731 Mohican Dr	23061	No Access	64 6849 Cherokee Ln	23061	No Access
18 9736 Mohican Dr	23061	No Access	65 6506 Jenkins Ln	23061	No Access
19 6994 Abbey Rd	23061	No Access	66 6835 Indian Creek Trl	23061	No Access
20 9761 Indian Rd	23061	No Access	67 7233 Indian Springs Ln	23061	No Access
21 9757 Indian Rd	23061	No Access	68 7151 Indian Springs Ln	23061	No Access
22 7022 Old Cabin Ln	23061	No Access	69 7214 Indian Springs Ln	23061	No Access
23 6867 Beech Creek Rd	23061	No Access	70 8816 Indian Rd	23061	No Access
24 6787 Beech Creek Rd	23061	No Access	71 8870 Indian Rd	23061	No Access
25 6773 Beech Creek Rd	23061	No Access	72 8996 Indian Rd	23061	No Access
26 6989 Deer Stand Dr	23061	No Access	73 6856 Woodland Dr	23061	No Access
27 7038 Beech Creek Rd	23061	No Access	74 9128 Indian Rd	23061	No Access
28 7218 Beech Creek Rd	23061	No Access	75 6843 Indian Creek Trl	23061	No Access
29 9879 Indian Rd	23061	No Access	76 9088 Indian Rd	23061	No Access
30 6739 Beech Creek Rd	23061	No Access	77 9064 Indian Rd	23061	No Access
31 10007 Indian Rd	23061	No Access	78 9034 Indian Rd	23061	No Access
32 10033 Indian Rd	23061	No Access	79 9006 Indian Rd	23061	No Access
33 9767 Mohican Dr	23061	No Access	80 8349 Mohawk Ln	23061	No Access
34 9750 Mohican Dr	23061	No Access	81 8345 Mohawk Ln	23061	No Access
35 6533 Marshall Way	23061	No Access	82 8307 Mohawk Ln	23061	No Access
36 6554 Jenkins Ln	23061	No Access	83 7280 Indian Springs Ln	23061	No Access
37 6510 Jenkins Ln	23061	No Access	84 8404 Mohawk Ln	23061	No Access
38 6531 Jenkins Ln	23061	No Access	85 8400 Mohawk Ln	23061	No Access
39 6553 Jenkins Ln	23061	No Access	86 8396 Mohawk Ln	23061	No Access
40 6501 Jenkins Ln	23061	No Access	87 8872 Indian Rd	23061	No Access
41 6469 Marshall Way	23061	No Access	88 10183 Bumpy Rd	23061	No Access
42 6508 Marshall Way	23061	No Access	89 6961 Indian Creek Trl	23061	No Access
43 6440 Marshall Way	23061	No Access	90 7136 Beech Creek Rd	23061	No Access
44 6431 Marshall Way	23061	No Access	91 10045 Skillman Ln	23061	No Access
45 6401 Marshall Way	23061	No Access	92 6372 Marshall Way	23061	No Access
46 9276 Beasley Dr	23061	No Access	93 6566 Jenkins Ln	23061	No Access
47 6449 Marshall Way	23061	No Access	94 6525 Beaverdam Ln	23061	No Access
Zone 17		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
95 9277 Beasley Dr	23061	No Access	142 6988 Old Cabin Ln	23061	No Access
96 9907 Indian Rd	23061	No Access	143 9823 Indian Rd	23061	No Access
97 10076 Marys Ln	23061	No Access	144 6498 Beaverdam Ln	23061	No Access
98 8522 Navajo Trl	23061	No Access	145 6574 Jenkins Ln	23061	No Access

99 8481 Navajo Trl	23061 No Access	146 6494 Jenkins Ln	23061 No Access
100 6817 Indian Creek Trl	23061 No Access	147 6643 Beaverdam Ln	23061 No Access
101 6830 Indian Creek Trl	23061 No Access	148 7247 Indian Springs Ln	23061 No Access
102 10166 Marys Ln	23061 No Access	149 6442 Beaverdam Ln	23061 No Access
103 6499 Beaverdam Ln	23061 No Access	150 7063 Indian Springs Ln	23061 No Access
104 6500 Jenkins Ln	23061 No Access	151 8978 Indian Rd	23061 No Access
105 10113 Marys Ln	23061 No Access	152 6911 Indian Creek Trl	23061 No Access
106 8443 Navajo Trl	23061 No Access	153 8944 Indian Rd	23061 No Access
107 7180 Beech Creek Rd	23061 No Access	154 6369 Marshall Way	23061 No Access
108 10143 Marys Ln	23061 No Access	155 8429 Mohawk Ln	23061 No Access
109 10123 Marys Ln	23061 No Access	156 10106 Indian Rd	23061 No Access
110 8562 Navajo Trl	23061 No Access	157 8482 Navajo Trl	23061 No Access
111 8596 Navajo Trl	23061 No Access	158 7272 Mason Way	23061 No Access
112 10200 Bumpy Rd	23061 No Access	159 7258 Mason Way	23061 No Access
113 6391 Marshall Way	23061 No Access	160 8603 Sherman Way	23061 No Access
114 9135 Beasley Dr	23061 No Access	161 8971 Days End Ln	23061 No Access
115 8382 Mohawk Ln	23061 No Access	162 7294 Beech Creek Rd	23061 No Access
116 7240 Beech Creek Rd	23061 No Access	163 9011 Days End Ln	23061 No Access
117 6935 Beech Creek Rd	23061 No Access	164 10224 Marys Ln	23061 No Access
118 9182 Moran Cir	23061 No Access	165 6992 Beech Creek Rd	23061 No Access
119 6925 Deer Stand Dr	23061 No Access	166 8623 Sherman Way	23061 No Access
120 8976 Indian Rd	23061 No Access	167 10108 Skillman Ln	23061 No Access
121 7093 Beech Creek Rd	23061 No Access	168 6812 Indian Creek Trl	23061 No Access
122 6949 Deer Stand Dr	23061 No Access	169 8444 Navajo Trl	23061 No Access
123 6809 Cherokee Ln	23061 No Access	170 7316 Mason Way	23061 No Access
124 6799 Beech Creek Rd	23061 No Access	171 8984 Indian Rd	23061 No Access
125 8553 Sherman Way	23061 No Access	172 6563 Beaverdam Ln	23061 No Access
126 9594 Indian Rd	23061 No Access	173 6892 Woodland Dr	23061 No Access
127 8822 Indian Rd	23061 No Access	174 8386 Mohawk Ln	23061 No Access
128 7264 Mason Way	23061 No Access	175 8559 Navajo Trl	23061 No Access
129 7380 Mason Way	23061 No Access	176 6827 Woodland Dr	23061 No Access
130 8848 Indian Rd	23061 No Access	177 9166 Indian Rd	23061 No Access
131 10097 Skillman Ln	23061 No Access	178 9999 Indian Rd	23061 No Access
132 10050 Skillman Ln	23061 No Access	179 10069 Indian Rd	23061 No Access
133 10042 Skillman Ln	23061 No Access	180 6789 Woodland Dr	23061 No Access
134 6833 Cherokee Ln	23061 No Access	181 6812 Cherokee Ln	23061 No Access
135 7033 Deer Stand Dr	23061 No Access	182 6855 Indian Creek Trl	23061 No Access
136 7050 Deer Stand Dr	23061 No Access	183 7114 Indian Springs Ln	23061 No Access
137 7060 Deer Stand Dr	23061 No Access	184 6867 Cherokee Ln	23061 No Access
138 6960 Old Cabin Ln	23061 No Access	185 6988 Indian Springs Ln	23061 No Access
139 10023 Indian Rd	23061 No Access	186 9085 Beasley Dr	23061 No Access
140 7070 Beech Creek Rd	23061 No Access	187 9022 Indian Rd	23061 No Access
141 7049 Beech Creek Rd	23061 No Access	188 10180 Bumpy Rd	23061 No Access

Zone 17

Broadband

Address

Status

189 9217 Moran Cir	23061 No Access
190 6501 Marshall Way	23061 No Access
191 9083 Beasley Dr	23061 No Access
192 9082 Beasley Dr	23061 No Access
193 7019 Indian Springs Ln	23061 No Access
194 8755 Indian Rd	23061 No Access
195 6886 Indian Creek Trl	23061 No Access
196 9141 Beasley Dr	23061 No Access
197 7030 Indian Springs Ln	23061 No Access
198 6850 Cherokee Ln	23061 No Access

95% Unserved - 10 structures with service and 188 w/out

Zone 18		Broadband	
Address	ZIPCODE	Status	
1 5979 Pear Field Ln	23061	No Access	
2 5977 Pear Field Ln	23061	No Access	
3 5939 Hickory Hill Ln	23061	No Access	
4 6033 Hickory Hill Ln	23061	No Access	
5 5975 Hickory Hill Ln	23061	No Access	
6 5804 Gockley Ln	23061	No Access	
7 5855 Hickory Hill Ln	23061	No Access	
8 5877 Hickory Hill Ln	23061	No Access	
9 6160 Gockley Ln	23061	No Access	
10 6034 Gockley Ln	23061	No Access	
11 6088 Gockley Ln	23061	No Access	
12 6144 Gockley Ln	23061	No Access	
13 6017 Homeplace Ln	23061	No Access	
14 5831 Pear Field Ln	23061	No Access	
15 5901 Hickory Hill Ln	23061	No Access	
16 5895 Hickory Hill Ln	23061	No Access	
17 5774 Gockley Ln	23061	No Access	
18 5972 Gockley Ln	23061	No Access	
19 6077 Gockley Ln	23061	No Access	
20 6104 Gockley Ln	23061	No Access	
21 6144 Hickory Hill Ln	23061	No Access	
22 5941 Homeplace Ln	23061	No Access	
23 5833 Homeplace Ln	23061	No Access	
24 5848 Homeplace Ln	23061	No Access	
25 6008 Gockley Ln	23061	No Access	
26 6029 Gockley Ln	23061	No Access	
27 5743 Gockley Ln	23061	No Access	
28 6022 Gockley Ln	23061	No Access	
29 6186 Gockley Ln	23061	No Access	
30 5927 Homeplace Ln	23061	No Access	
31 5822 Homeplace Ln	23061	No Access	
32 6092 Pear Field Ln	23061	No Access	
33 6027 Gockley Ln	23061	No Access	
34 5922 Homeplace Ln	23061	No Access	
35 6103 Gockley Ln	23061	No Access	
36 5748 Gockley Ln	23061	No Access	
37 6188 Hickory Hill Ln	23061	No Access	
38 5819 Gockley Ln	23061	No Access	
100% Unserved			

Zone 19		Broadband	
Address	ZIPCODE	Status	
1 10404 Robins Nest Ln	23061	No Access	
2 10238 Robins Nest Ln	23061	No Access	
3 10123 Robins Nest Ln	23061	No Access	
4 10292 Robins Nest Ln	23061	No Access	
5 10389 Robins Nest Ln	23061	No Access	
6 10405 Robins Nest Ln	23061	No Access	
7 10203 Robins Nest Ln	23061	No Access	
8 10391 Robins Nest Ln	23061	No Access	
9 10190 Robins Nest Ln	23061	No Access	
10 10122 Robins Nest Ln	23061	No Access	
11 10410 Robins Nest Ln	23061	No Access	

100% Unserved

Zone 20**Broadband**

Address	ZIPCODE	Status
1 10569 Shelby Ln	23061	No Access
2 10497 Bald Eagle Way	23061	No Access
3 10376 Shelby Ln	23061	No Access
4 10391 Shelby Ln	23061	No Access
5 10656 Shelby Ln	23061	No Access
6 10605 Shelby Ln	23061	No Access
7 10463 Shelby Ln	23061	No Access
8 10482 Shelby Ln	23061	No Access
9 10439 Shelby Ln	23061	No Access
10 10602 Shelby Ln	23061	No Access
100% Unservd		

Zone 13		Broadband		Broadband	
Address	ZIPCODE	Status	Address	ZIPCODE	Status
1 10432 Freewelcome Ln	23050	Has Access	48 8465 Freewelcome Ln W	23050	No Access
2 10975 Dancers Creek Rd	23050	No Access	49 8449 Freewelcome Ln W	23050	No Access
3 10991 Dancers Creek Rd	23050	No Access	50 8761 Freewelcome Ln W	23050	No Access
4 10996 Dancers Creek Rd	23050	No Access	51 10399 Hope Cir	23050	No Access
5 10579 Cedar Gate Ln	23050	No Access	52 10283 Hope Cir	23050	No Access
6 10518 Freewelcome Ln	23050	No Access	53 10285 Hope Cir	23050	No Access
7 10558 Freewelcome Ln	23050	No Access	98% Unserved - 1 structures with service and 52 w/out		
8 10538 Cedar Gate Ln	23050	No Access			
9 10521 Freewelcome Ln	23050	No Access			
10 9562 Dutton Rd	23050	No Access			
11 10315 Vidaurri Ln	23050	No Access			
12 10319 Vidaurri Ln	23050	No Access			
13 10232 Vidaurri Ln	23050	No Access			
14 10481 Freewelcome Ln	23050	No Access			
15 9685 Dutton Rd	23050	No Access			
16 9467 Dutton Rd	23050	No Access			
17 10500 Cedar Gate Ln	23050	No Access			
18 10622 Cedar Gate Ln	23050	No Access			
19 10282 Vidaurri Ln	23050	No Access			
20 10605 Cedar Gate Ln	23050	No Access			
21 10501 Freewelcome Ln	23050	No Access			
22 10530 Freewelcome Ln	23050	No Access			
23 10554 Freewelcome Ln	23050	No Access			
24 10535 Cedar Gate Ln	23050	No Access			
25 10520 Cedar Gate Ln	23050	No Access			
26 10877 Dancers Creek Rd	23050	No Access			
27 10525 Cedar Gate Ln	23050	No Access			
28 10929 Dancers Creek Rd	23050	No Access			
29 11020 Dancers Creek Rd	23050	No Access			
30 10284 Vidaurri Ln	23050	No Access			
31 10553 Freewelcome Ln	23061	No Access			
32 10415 Hope Cir	23050	No Access			
33 10535 Freewelcome Ln	23050	No Access			
34 10711 Piankatank Dr	23061	No Access			
35 10443 Freewelcome Ln	23050	No Access			
36 10477 Freewelcome Ln	23050	No Access			
37 8461 Freewelcome Ln W	23050	No Access			
38 8493 Freewelcome Ln W	23050	No Access			
39 8455 Freewelcome Ln W	23050	No Access			
40 8876 Freewelcome Ln W	23050	No Access			
41 10936 Freewelcome Ln E	23050	No Access			
42 10956 Freewelcome Ln E	23050	No Access			
43 10961 Freewelcome Ln E	23050	No Access			
44 8495 Freewelcome Ln W	23050	No Access			
45 8763 Freewelcome Ln W	23050	No Access			
46 8613 Freewelcome Ln	23050	No Access			
47 8639 Freewelcome Ln W	23050	No Access			

Zone 22		Broadband		
Address	ZIPCODE	Status	Address	ZIPCODE
1 7768 Haynes Dr	23061	Has Access	48 8218 Hell Neck Rd	23061
2 7604 South Shore Dr	23061	Has Access	49 8112 Hell Neck Rd	23061
3 7581 Granny Valley Rd	23061	No Access	50 11134 Eventide Ln	23061
4 7484 Hell Neck Rd	23061	No Access	51 8114 Hell Neck Rd	23061
5 7475 Hell Neck Rd	23061	No Access	52 8185 Riverview Dr	23061
6 8278 Hell Neck Rd	23061	No Access	53 8237 Covey Point Ln	23061
7 8262 Hell Neck Rd	23061	No Access	54 11361 Water View Pl	23061
8 8346 Warthen Ln	23061	No Access	55 8381 Estate Dr	23061
9 8280 Warthen Ln	23061	No Access	56 8121 Riverview Dr	23061
10 8310 Warthen Ln	23061	No Access	57 8288 Highview Dr	23061
11 8318 Warthen Ln	23061	No Access	58 8207 Riverview Dr	23061
12 11327 Water View Pl	23061	No Access	59 11289 G Washington Mem Hwy	23061
13 11307 Water View Pl	23061	No Access	60 8383 Estate Dr	23061
14 11339 Water View Pl	23061	No Access	61 8139 Riverview Dr	23061
15 11269 Water View Pl	23061	No Access	62 8140 Riverview Dr	23061
16 11257 Water View Pl	23061	No Access	63 11146 Eventide Ln	23061
17 8418 Warthen Ln	23061	No Access	64 8322 Estate Dr	23061
18 8396 Warthen Ln	23061	No Access	65 8360 Estate Dr	23061
19 11192 Eventide Ln	23061	No Access	66 8054 Riverwatch Ct	23061
20 11172 Eventide Ln	23061	No Access	67 8385 Warthen Ln	23061
21 8320 Highview Dr	23061	No Access	68 7456 Hell Neck Rd	23061
22 8331 Highview Dr	23061	No Access	69 8316 Estate Dr	23061
23 8267 Highview Dr	23061	No Access	70 8031 Riverwatch Ct	23061
24 8213 Riverview Dr	23061	No Access	71 11220 Eventide Ln	23061
25 8221 Riverview Dr	23061	No Access	72 11078 Eventide Ln	23061
26 8225 Riverview Dr	23061	No Access	73 7845 Riverwatch Dr	23061
27 8206 Riverview Dr	23061	No Access	74 7576 South Shore Dr	23061
28 8212 Riverview Dr	23061	No Access	75 8133 Riverview Dr	23061
29 8218 Riverview Dr	23061	No Access	76 7603 South Shore Dr	23061
30 11414 Landing Dr	23061	No Access	77 7616 South Shore Dr	23061
31 8253 Highview Dr	23061	No Access	78 7787 Riverwatch Dr	23061
32 8169 Riverview Dr	23061	No Access	79 8154 Riverview Dr	23061
33 8177 Riverview Dr	23061	No Access	80 11455 East West Pkwy	23061
34 8201 Riverview Dr	23061	No Access	81 7573 South Shore Dr	23061
35 8174 Riverview Dr	23061	No Access	82 11409 East West Pkwy	23061
36 8184 Riverview Dr	23061	No Access	83 8132 Riverview Dr	23061
37 8190 Riverview Dr	23061	No Access	84 8407 Warthen Ln	23061
38 8198 Riverview Dr	23061	No Access	85 11451 Coveside Pt	23061
39 8123 Riverview Dr	23061	No Access	86 8158 Riverview Dr	23061
40 8147 Riverview Dr	23061	No Access	87 8168 Riverview Dr	23061
41 8151 Riverview Dr	23061	No Access	88 8306 Estate Dr	23061
42 8161 Riverview Dr	23061	No Access	89 8053 Riverwatch Ct	23061
43 11359 Water View Pl	23061	No Access	90 8193 Riverview Dr	23061
44 8148 Riverview Dr	23061	No Access	91 7563 South Shore Dr	23061
45 8153 Highview Dr	23061	No Access	92 11555 East West Pkwy	23061
46 11375 Bristow Dr	23061	No Access	93 11522 East West Pkwy	23061
47 8055 Riverwatch Ct	23061	No Access	94 8049 Riverwatch Ct	23061

Zone 22		Broadband	
Address	ZIPCODE	Status	
95 7668 Riverwatch Dr	23061	No Access	
96 7438 Hell Neck Rd	23061	No Access	
97 7617 South Shore Dr	23061	No Access	
98 11388 Coveside Pt	23061	No Access	

99	7852 Riverwatch Dr	23061	No Access
100	11385 East West Pkwy	23061	No Access
101	7827 Riverwatch Dr	23061	No Access
102	11258 Bayport Lndg	23061	No Access
103	11463 Coveside Pt	23061	No Access
104	7608 Riverwatch Dr	23061	No Access
105	8205 Highview Dr	23061	No Access
106	8167 Highview Dr	23061	No Access
107	8243 Highview Dr	23061	No Access

98% Unserved - 2 structures with service and 105 w/out

Thousand Trails Campground

Counts as 1 structure but has 359 campsites and cabins.

They are fully booked on weekends from Memorial Day through the fall.



Efforts to Expand Broadband in Gloucester

The Gloucester County Board of Supervisors has set an aggressive target to expand broadband into unserved areas of the county. In addition to establishing a Telecommunications Committee to advise and assist the board on broadband, telecommunications and cable services, county staff have been working diligently to:

- * *Identify all unserved/underserved areas in the county*
- * *Identify all the possible and feasible means to expand broadband to unserved/underserved areas*
- * *Identify aerial assets that may be used for wireless broadband technology*
- * *Research contractual opportunities for private/public partnerships to provide additional services*
- * *Identify and apply for all available and appropriate state and federal grants*
- * *Research and develop cost estimates for expanding broadband through a variety of strategies and stages*

The county continues to apply for state funding through the Virginia Telecommunications Initiative (VATI) grant, having received \$193,094 to expand services along Route 17 north in the Glens area. This year's request was unfortunately not selected for funding in that there was only \$4.9 million dollars in funds available and an estimated \$11 million dollars in requests. Plans are underway to submit a 2020 VATI grant proposal with \$19 million state funds available.

Assistant County Administrator Carol Steele is overseeing the broadband expansion initiative with the committee and staff from the Departments of Information Technology, Community Engagement and Gloucester County Public Schools. For more information, please contact her at csteele@gloucesterra.info or 693-4042.

Gloucester County Virginia
March 21

Do You Have Access To Cox Communications' Services? Gloucester County is compiling a list of unserved addresses to be used for future study and planning for broadband access. It is essential to ensure your address is on the unserved master list if you are not in Cox Communications' service areas. For more information go here: <http://va-gloucestercounty.civicplus.com/.../Broadband-Address>



Gloucester County Virginia
April 8

Last Call for Unserved Broadband Addressed Due Wednesday April 10th!!!
Do You Have Access To Cox Communications' Services? Gloucester County is compiling a list of unserved addresses to be used for future study and planning for broadband access. It is essential to ensure your address is on the unserved master list if you are not in Cox Communications' service areas. For more information go to www.gloucesterva.info and look for Latest County News & Announcements "Broadband."



Gloucester County, VA | Official Website



Gloucester County, VA | Office

Broadband Survey Results

Gloucester County direct mailed addresses that were deemed to not have access to broadband a questionnaire with a return postage paid envelope. The survey served several purposes:

1. Validate unserved addresses.
2. Inform the unserved homes/businesses of the work the County was involved in. Understanding that much of the public may miss print and social media announcements and not follow the Board of Supervisor's meetings and would be unaware of our efforts.
3. Determine the interest in obtaining broadband service.
4. Determine pay thresholds that people would be willing to pay.
5. Provide an initial assessment on willingness to consider a new utility tax to provide new services.
6. Provide information on individual's willingness to allow an antenna pole on their property in order to receive services.

The survey results indicated broad support for broadband. Mail surveys, even with postage paid return envelopes, have a historically low response rate with return rates often in the teens. The County's return rate of 46% is outstanding and indicative of the pressing need for service.

The first objective was met as it was discovered that a number of addresses previously thought to be unserved, had access to broadband. A recheck of all of the addresses was made and addresses that had inadvertently been included or had obtained service since the original analysis were removed from the unserved list.

The handwritten notes on the forms passed along strong opinions with the vast majority thanking the County for their help, begging the County to move quickly and demanding the County to do its job by getting broadband installed throughout the County. Not all of the comments were accurate in their basis of responsibility for broadband services, but they were reassuring that the citizens want the service, want it badly and will help pay for it.

88% responded that they want broadband with another 4% answering that they were not sure. With reasonable rates, that are acceptable to the undecided, that could mean as high as **a 92% take rate!**

Ability to Pay – Fixed Wireless Project

30% stated they were willing to pay as much as \$80 per month for service. Another 26% said they will pay up to \$60 per month. 21% stated they will pay up to \$40 per month. For the Fixed Wireless Project with rates of \$39.99 a month for 25/3, **77% indicated they could afford the fee.** Another 11% was unsure. Only 4% stated they could not afford to pay for the services.

Ability to Pay – Wired Project

The cost for the service package that meets the minimum requirement of 25/5 will be \$65.99 a month. While the percent of willing to pay up to \$80 was 30%, Cox offers options for people to buy a slower speed with a cost of only \$44.99 a month that could meet many people's needs.

The **willingness to pay \$60 or higher was 56%**. The slightly higher fee could easily be acceptable to 56% of the unserved and potentially to the additional 11% who stated they were unsure of how much they would pay.

Cox also offers the *Connect2Compete* rate of \$9.95 a month for families with children who receive free or reduced lunches. This greatly reduced price needs to be considered not only for the number impacted this year but for as long as Cox continues the program. Different residents may be in the homes, people may face tighter financial times and children's ages will cause an ebb and flow of qualifying for the service.

Gloucester County Grant History Examples

Grant ID FEMA Flood	Acquisition / Elevation ⁽²⁾	Total Project Investment ⁽³⁾	BOS Accepted Grant by Resolution	Grant Close Out or Expiration
DR-1874-007	Elevation (phase 2) 8 homes	\$1,139,035	October 2, 2012 (7-0 vote)	Closed 12-21-2017
DR-1905-009	Elevation of 8 homes	\$881,390	October 2, 2012 (7-0 vote)	Closed 10-2-2017
DR-1905-010	Elevation of 6 homes	\$643,480	May 7, 2013 (7-0 vote)	Closed 10-4-2017
PJ-2017-002	Elevation of 4 homes	\$902,915	November 7, 2018 (5-0 vote, 2 absent)	Active; Expires 03-20-2021
DR-4291-VA- 002	Elevation of 6 homes	\$1,023,360	May 7, 2019 (7-0 vote)	Active; Expires 12-06-2021
DR-4291-VA- 004	Elevation of 6 homes	\$1,073,815	May 7, 2019 (7-0 vote)	Active; Expires 12-06-2021

Transportation Alternatives/Transportation Enhancement Grants (VDOT administered FHWA funds)

Reimbursement grant: 80% federal, 20% local.

Edge Hill Service Station – Restore 1930’s Texaco station and surrounding acreage to serve as an education center for Middle Peninsula history and office space for the Fairfield Foundation. \$384,000 grant awarded in June 2012. Total estimated project cost is \$481,000. Anticipate completion Winter 2019.

2017 Virginia Telecommunication Initiative Grant – Extend broadband infrastructure to previously unserved residences and businesses. \$193,094 grant awarded in April 2017. Completed December 2017.

National Park Service Chesapeake Bay Gateways and Trails Grant – Create County museum exhibits about Werowocomoco, a historic site recently acquired by the National Park Service that will not be open to the public for several years. \$60,000 grant awarded in May 2017. \$60,000 addition awarded in July 2019. Anticipate completion Summer 2020.

National Park Service American Battlefield Protection Program Battlefield Preservation Planning Project Grant – Conduct a battlefield survey to discover the extent of the Revolutionary War Hook Battlefield and develop an archeological research design to support public outreach and preservation planning. \$39,000 grant awarded in September 2018. Anticipate completion Summer 2020.

FY18 PSAP Grant – Replace call handling equipment in the County’s E911 call center. \$150,000 grant awarded in January 2017. Completed June 2019.