Eastern Shore of Virginia Broadband Authority

Accomack and Northampton Counties Broadband Network Expansion Project FY2023

Application ID: 95706212022162108

Application Status: Pending

Program Name: Virginia Telecommunication Initiative 2023 - Application

Organization Name: Eastern Shore of Virginia Broadband Authority

Organization Address:

Profile Manager Name: Robert Bridgham **Profile Manager Phone:** (757) 414-0304

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Project Name: Accomack and Northampton Counties Broadband Network Expansion Project

FY2023

Project Contact Name: Robert Bridgham
Project Contact Phone: (757) 414-0304

Project Contact Email: rbridgham@esvba.com
Project Location: 4174 LANKFORD HWY

EXMORE, VA 23350-2644

Project Service Area: Accomack County, Northampton County

Total Requested Amount: \$9,795,137.00 **Required Annual Audit Status:** Accepted

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$9,795,137.00	\$2,910,114.00	\$12,705,251.00
Construction	\$2,476,574.00	\$2,864,542.00	\$5,341,116.00
Construction Related Soft Costs	\$5,201,021.00	\$45,572.00	\$5,246,593.00
Other: Contingencies	\$2,117,542.00	\$0.00	\$2,117,542.00
Total:	\$9,795,137.00	\$2,910,114.00	\$12,705,251.00

Budget Narrative:

The proposed project serves two main service areas in Accomack and Northampton counties. The total project cost is \$12,705,251 to build 316.78 miles covering 6,896 passings. The total fund requested from VATI is \$9,795,137, which is 77.10% of the total project cost. The cost includes 76.84 miles of underground construction. The total match is \$2,910,114, represented 22.90% of the total project cost. The counties provided \$2,380,474 of current match. In addition to the current match, the cost includes a prior expenditure match in the amount of \$529,640 for prior builds in both counties. In Accomack County, 255.9 miles covering 5931 passings will be built. The total cost is \$9,555,260.42. The cost includes 54.16 miles of underground construction. To meet the match requirement, Accomack County has provided \$1,998,298; of which \$1,839,470 is current match and \$158,828 is prior expenditure match. The contingency fund is \$1,592,543. In Northampton County, 60.93 miles including 965 passings will be built. The total cost is \$3,149,990.30 including the cost for building 22.68 miles of underground passings. To meet the required match, Northampton County has provided \$911,816; of which \$541,004 is current match and \$370,812 is prior expenditure match. A total of \$270,000 out of the \$370,812 was used to construct five (5) miles of fiber in Vaucluse Shores. An explanation was provided in the budget section (question 17) of the application. The contingency fund is \$524,998.

Questions and Responses:

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1. Project Description and Need

Describe 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:

The 2023 VATI project is designed to provide broadband coverage to areas that meet the definition of unserved and underserved areas in both Accomack County and Northampton County. The proposed project is broken down into 41 project areas represented in Attachment 1. There is a total of 6,896 passings in the proposed area; of which 2,351 are special construction. The special construction passings are not budgeted into the proposed budget. These passings will be covered by the Line Extension Customer Assistance Program (LECAP) or ESVBA Installation Assistance programs. Previous built areas included as match fund include Yarmouth, Kelly Cove, and Saltworks 2, and Vaucluse Shores in Northampton County; and Seaside Circle, Dix Farm, Bloxom Rd Ext, Wisharts Point, Bogues Bay, and McComas Hotspot in Accomack County.

Of the 6,896 passings, 4,909 are aerial passings and 1,987 are underground. The project covers 5,931 passings in Accomack County and 965 passings in Northampton County. The passings are in areas that have been unserved or underserved for decades. They either have no service or the service is drastically lower than the 100/20 required by the DHCD's new requirements in VATI. Upon completion, the planned areas will have access to symmetric speeds exceeding the 100/20 standard. Individuals can obtain up to 200/200 and with the ESVBA all-fiber network, we can continue to scale bandwidth options as the community and telecommunications needs grow. The ESVBA network is designed to provide at and above 200/200 symmetrical speeds.

It should be noted that before the final 2023 VATI guidelines, the proposed area could not be included in the application as it was federally funded by the United States Department of Agriculture (USDA). In or around 2017, a wireless provider was granted funds through the USDA ReConnect program and has serving some of the area with speed of up to 25/3Mbps. The ESVBA has continued to receive much public feedback about the substandard services offered by the wireless provider with regards to reliability, total bandwidth, pricing, and availability. Meanwhile, residents' and businesses' needs and demands have grown over the last few years. With the pandemic, residents and counties made a notable push for broadband. The COVID-19 pandemic forced residents and entities to switch over to digital lifestyle for personal, professional, and socioeconomic activities. The wireless provider's infrastructure did not provide the coverage across the USDA area and in many cases, never even achieved 25/3Mbps. With the updated bandwidth definition heightened to 100/20, the wireless ISP is far below capability to propose any salient alternative to meet the new DHCD requirement.

Upon construction of the VATI FY23 proposed project, 100% of the Eastern Shore of Virginia will have broadband coverage exceeding the new DHCD required bandwidth of 100/20. The ESVBA was awarded the 2022 VATI grant to take the infrastructure coverage from 60% to 80% by May 2024. With a 2023 VATI award, the ESVBA will complete the remaining 20% of unserved and underserved areas identified and included in application by June 2025.

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2. List existing providers in the proposed project area and the speeds offered. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

Answer:

There are five (5) major existing providers in the Eastern Shore of Virginia: Declaration Network Group (DNG) a/k/a NeuBeam, Charter Communications/Spectrum, Verizon, Eastern Shore Communications, and The Eastern Shore of Virginia Broadband Authority as the predominant operator. The information about the providers and their internet speeds were obtained from their website, press publications, and from the ESVBA's long years of experience operating alongside these providers in the Eastern Shore of Virginia.

Declaration Network Group (DNG) is a wireless internet provider that provides services in several areas in the Eastern Shore of Virginia. DNG offers services as low as 5Mbps up to 30/5Mbps. DNG was awarded the United States Department of Agriculture (USDA) ReConnect funding to build portions of Northampton and Accomack counties. The USDA area was determined using the Telecommunications Program Funded Service Areas Map. DNG uses wireless technologies as its exclusive delivery mechanism to provide services to end-users. DNG uses the ESVBA nearly exclusively as its backbone and backhaul provider around the Eastern Shore.

Charter/Spectrum Communications is one of the providers in the area. According to the Charter/Spectrum website, Charter Communications provides internet speed at 100/10Mpbs, 400/20Mbps or 940/35Mbps. Charter has services in pockets around the proposed areas however, with the use of the pole attachment data we received, our proposed coverage will supplement Charter in providing 100% ubiquitous coverage here on the Shore.

Verizon offers digital subscriber line (DSL) internet service in communities in the Eastern Shore of Virginia. Currently, the highest internet speed offered by Verizon in the Eastern Shore of Virginia is below 15 Mbps/3. Verizon also has several pockets of service areas in the proposed project area but has nearly no capacity for new subscribers and is turning away end-users needing or wanting to subscribe.

Eastern Shore Communications (ESC) is the other internet provider in the Eastern Shore of Virginia. Eastern Shore Communications provides fiber internet and praises itself as "...the first provider to utilize the fiber optic backbone built by the ESVBA (Eastern Shore of Virginia Broadband Authority) using taxpayer money and stimulus grants." ESC has sold nearly all of its residential services to DNG and no longer offers residential broadband. ESC also uses the ESVBA nearly exclusively as its backbone and backhaul provider around the Eastern Shore.

The Eastern Shore of Virginia Broadband Authority (ESVBA) operates an open access backbone, provides wholesale services to new and incumbent private providers, and provides residential and non-residential services to households and commercial entities. In October 2021, the ESVBA board of directors moved to approve a 200/200 symmetric package. According to the BroadbandNow website, the ESBVA provides the fastest internet speed on the Eastern Shore of Virginia

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3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. Label Map: Attachment 2 – Documentation on Federal Funding Area.

Answer:

Areas near the proposed project had received funding from the USDA Farm Bill in 2017 to complete construction. The Declaration Networks Group Inc. (DNG) was the recipient of the grant but has the capacity to provide a maximum speed of 30/5, which is much lower than the current DHCD and FCC requirement for a 100/20 capacity. Therefore, per the FCC requirements, the areas are eligible for the VATI 2023 application. Furthermore, after six (6) years since receiving the funds, DNG has not provided coverage to much of its designated area and all services are under the 100/20 standard. The presence of the DNG in the USDA funded areas prevented the ESVBA from including the areas in the 2022 VATI application. The ESVBA could not include these areas even though most of them were not covered and were underserved. Under the 2023 guidelines requiring 100/20, the area became eligible to be included in the ESVBA 2023 VATI application.

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4. Overlap: 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 below 100/20 Mbps and with less than 25% service overlap within the project area for wireless projects and 20% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 3 – Documentation Unserved Area VATI Criteria.

Answer:

The proposed project area is largely unserved and underserved with capacity below the 100/20 requirements. The current wireless provider (DNG) has been able to offer up only 30/5 capacity. DNG has failed to provide complete coverage in the funded area. In short, DNG does not have the wireless infrastructure to meet the 100/20 requirement. With a maximum capacity of 30/5 across the whole project area, DNG can claim as low as zero percent overlap. This information is supported by DNG' own subscriber data. DNG may still bring a challenge forth to claim overlap with its service area, which by DNG' own network data provided to us, does not meet the requirements. It is important to note that internet service providers (ISPs) and incumbents including DNG use the ESVBA open access network to provide end-user services. Therefore, it is in the interest of all providers that the broadband infrastructure is reinforced and empowered in the current proposed areas.

The other major provide on the Eastern Shore of Virginia is Charter. The ESVBA was provided access to the pole attachment records by the local power cooperative here on the Shore. An analysis of the proposed project area was done leveraging the data for Charter's pole attachments. The analysis used GIS buffering to produce Charters network reach within the project area. Buffered pole attachment data was used both inside and outside the project area to produce accurate results due to the possibility that Charters network may reach inside of the project area from outside poles. The resultant areas are all under 20% coverage of Charter/Spectrum who is the only other provider on the shore providing 100/20Mbps of wireline services.

Of note, the data used to produce Charters service coverage is indicating all poles Charter is licensed to be operating on and include areas that Charter only has Cable television and not necessarily broadband services. This analysis thereby provided an overestimate of Charter's network. The ESVBA is aware many areas are licensed with the power cooperative however, an attachment may not exist. Additionally, in many of the areas, Charter may have a wire on the pole line but does not provide Broadband as one of the services in those areas. We are confident that this provides a very conservative estimate of other providers which confirms the proposed areas have less than 20% coverage and ensures that the proposed areas are well justified to receive funding.

The ESVBA GIS analyst took the following steps to produce the analysis:

- Point shape files containing pole attachment records from a 2016 audit, a 2020 audit, and a 2021 audit were combined, a union algorithm was used to produce a point file containing multiple years of records.
- A buffer algorithm was used to place a 300 foot buffer around poles with pole point, producing Charter's maximum service access with no special install costs passings. Note: Charter's poles were not limited to the project area. All pole points were buffered to produce valid results due to the possibility that Charter's network could reach into the project area from poles outside the project area.
- An intersection algorithm was then used, input layer set as passings within the project area and overlay layer set as buffered Charter's pole points.

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- 5. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 25 Megabits per second download and 3 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 4 Passings Form.
 - a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
 - b. If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
 - c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.
 - d. If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
 - e. Provide the number of passings in the project area that have 25/3 Mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

The number of serviceable units in the proposed areas is 4,545 passings. To determine the number of passings, the ESVBA GIS Analyst analyzed pole attachment data and ran union algorithm, buffer algorithm, and intersection algorithm. The ESVBA also used data from counties and review of reports and data from its 14 years' experience operating on the Eastern Shore of Virginia.

The total number of VATI passings is 6,896. Of these passings, there are 6887 residential units and nine (9) community anchor institutions. Any passings, both underground and aerial, within 150 feet of the attachment pole or the ESVBA backbone are considered serviceable. There are 2,351 special construction passings. No funding was requested for the special construction passings because they are expected to be covered by the LECAP program or the ESVBA Installation Assistance Programs.

To determine the number of community anchor institutions, our GIS Analyst pulled the list of community anchor institutions from the Commonwealth Connection website (Mapping Virginia's Expanding Broadband Access). The list of all previously-covered anchor institutions is used against the list of anchor institutions available in the service area to get the nine (9) anchor institutions included in this application. Details are included in Attachment 4-Passings Form.

Based on our field verification, public data, and internal analysis on internet access in rural America, we determined that over 90% of the passings in the project area receive less than 25/3mbps. That includes the vast majority of residential passings, home-based businesses and community anchor institutions. The low speed in the project area is justified by the fact that it has been protected through federal funds for the last six (6) years by the provider that failed to provide coverage and the minimum speed of 100/20mbps.

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6. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area. If RDOF areas are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 5 – RDOF Awarded Areas Form in VATI Area

Answer:

No blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area.

7. **For wireless projects only:** Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed.

Answer:

Does not apply.

8. Network Design: 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. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. Label Map: Attachment 6 – Propagation Map Wireless Project.

Answer:

The ESVBA network architecture is designed to allow the provision of highly reliable and scalable services to residents in the Eastern Shore of Virginia. The ESVBA network infrastructure is currently designed at a level of performance to generally achieve a "four nines" (99.99%) availability. Four nines is less than one hour of downtime per year. The network elements are "five nines" (99.999%) capable and the ESVBA can provide network services to any customers or service providers requiring this level of service.

The ESVBA network, an all-fiber network design, calls for fiber to be built out to all areas that are unserved. The ESVBA is using GPON technology to efficiently utilize the fiber infrastructure supporting up to 32 subscribers on a single fiber strand. We have multiple network hubs as aggregation points to capitalize on the fiber asset. The ESVBA then operates a diverse and redundant 100Gbps Ethernet backbone connecting the North end of the Shore to the South. This network can failover in a sub-second timeframe to provide reliability and dependability for the needs as simple as an end-user and as complex as operating the 911 network for the Eastern Shore. The ESVBA also operates SONET and DWDM networks overlaid on the Ethernet backbone to support a myriad of telecommunications needs for those on the Shore. Each hub location contains redundant power with generators and batteries to operate >24hrs without utility power.

The equipment is all ordered with redundant cards and optics to maintain operational status during component failure. The ESVBA network is the ONLY network on the shore that has diverse paths out of the Eastern Shore to ensure that if either of our paths North or South were to fail, we can failover and continue operating where all other providers only have a single path off of the Shore. All backbone electronics are network equipment building system (NEBS) compliant and engineered to Telcordia standards. The ESVBA implements dual fully redundant diverse Internet POPs with Cisco 9K core routers as the core routing platform supporting multiple 100Gbps line cards and terabytes of data per second with many spare slots allowing growth with minimal effort and no need for a fork-lift upgrade.

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The ESVBA also implements A10 Thunder Series networks core equipment for its oversubscribed network that is monitored 24x7 by our network operations for threshold alerts, capacity profiling, and utilization monitoring to ensure that oversubscribed utilization never exceeds 80% of the capacity of any network component. It is an expectation that a shared bandwidth product will contain some moments of congestion however, the ESVBA utilizes its data gathering systems to minimize and preemptively mitigate the risk and duration of congestion. Since the broadband services are all of equal priority, capacity is constrained with a FIFO queuing strategy and traffic shapers limiting the pain of congestion experiences. The types of hardware and underlying fiber infrastructure ensure that upgrades to keep pace with capacity needs have nearly zero impact and are readily implemented to provide the highest-quality network on the Shore and one of the best networks nationwide.

The ESVBA offers Ethernet ELAN & ELINE Services, SONET services, WISP Services, Dedicated Internet, and FTTH. It is an IPV6 enabled network providing massive capability (340 undecillion addresses - 3.4×10^38). The virtual and physical network is monitored 24/7/365 for threat and mitigation. The network provides speeds up to 100 Gbps and wavelength services.

With Fiber being the backbone component, the ESVBA can allocate additional fibers to increase capacities or implement additional DWDM carding to reuse existing fibers and support capacities dozens of times the current speeds.

The proposed project is an expansion of the open access backbone across the two counties. The project will expand the regionalized and community networks connecting unserved towns and communities to the backbone. With the proposed project, the backbone network will be expanded throughout the two counties. With the backbone and the community network expanded, several thousands of residents to low-income residents will have the network closer for greater accessibility. For over a decade, the ESVBA has committed to building a network that sustains the demand of the ISP and residents using the most sophisticated technological equipment.

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9. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. 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. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 100/20 Mbps. (up to 10 points)

Answer:

The ESVBA currently offers fiber to the home (FTTH) products that exceed Virginia's current definition of broadband (100/20). Since October 2021, the ESVBA provides services that are 200/200 symmetric, which exceeds the DHCDs and the FCCs minimum speed requirements. The all-fiber network allows the ESVBA to scale-up bandwidth as needs increase without having to do a replacement of the infrastructure. Currently, the ESVBA offers speeds of 20Gbps to our commercial and wholesale customers.

The ESVBA residential broadband product is a shared internet infrastructure whereby the ESVBA builds oversubscription into its residential and small business products but manages this to ensure the highest-quality services while limiting the actual congestion due to oversubscription. Because the ESVBA's network is all fiber, the ESVBA can scale its oversubscription infrastructure with minimal changes and nearly zero lead-time to contain any capacity issues encountered.

The ESVBA also offers dedicated non-oversubscribed internet (Dedicated Internet Access (DIA)) to commercial, enterprise and wholesale consumers to best fit the broadband needs of all consumers in the region. The ESVBA network far exceeds the capacity of any and all providers on the Eastern Shore of Virginia allowing it to not only solve the current broadband needs but also all bandwidth needs in the future.

Residential Rates and Speeds

Symmetrical Service Packages- Download/ Upload Speed

- 25/25 Mbps-\$39.99 (24 months); \$45.99 (12 months)
- 50/50 Mbps- \$59.99 (24 months); \$69.99 (12 months)
- 100/100 Mbps- \$85.99 (24 months); \$99.99 (12 months)
- 200/200Mbps-\$149.99 (24 months); \$175.99 (12 months)

When the COVID-19 pandemic started to affect the Eastern Shore of Virginia, the ESVBA doubled its then current bandwidth levels at zero cost to all of its residential subscribers. In October, 2021, the ESVBA board approved permanently doubling residential subscribers download speeds, increasing upload speeds to be symmetric with download speeds all at zero cost to our subscribers. This benefit was for the good of the community and is part of our overall strategy to best serve the interest of the community.

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10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

Answer:

This proposed project achieves universal broadband coverage for the two counties because any eligible area has been included to get access to broadband. The current project adds 316.78 miles to the current existing network. The 2023 VATI application puts the total miles to be constructed by June 2025 at 1,327 miles. That is including a total of 586.78 miles covered by the 2022 and 2023 grants. This also includes 741 miles of fiber network built by the ESBVA as of 2022. With a strong presence in the communities and the VATI offering the opportunity for expansion, the ESVBA and the counties planned and designed all the unserved areas. The plan carefully prioritized microcommunities, strategic segments, and high-cost installations for low, and moderate-income individuals. Upon completion of the proposed project, over 6,896 units in currently unserved areas will have access to reliable connectivity.

The proposed project will connect residents in remote and low-density areas, community anchors, and businesses as well as bring internet service providers in areas where they could provide services without having to make exorbitant capital investment. With homes and businesses located far from the backbone associated with the low-density, the VATI grant will allow residents to connect at affordable cost and attract internet service providers, which increases the take rate.

That is why the counties work with the ESVBA in a global approach to ensure availability, quality, and affordability of services. For example, the ESVBA service package rates are extremely competitive in the region while providing the highest internet speed and reliability that is unsurpassed. Currently, there are 27 Wi-Fi hotspots available to residents free of charge. The full buildout through the VATI funds will empower all the different forces and parties on the Eastern Shore of Virginia to operate effectively and efficiently, which will inevitably lead to achieving fast and quality universal broadband coverage for all residents and entities.

11. Project Readiness

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants are encouraged to extensively discuss, where applicable, easements relating to railroad crossings, federally-owned lands and parks, partnerships with the Virginia Department of Transportation, and mobile home parks. Applicants must include Memorandums of Understanding (MOUs)or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 10 points)

Answer:

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The planning and preliminary engineering of project areas, segments, and passings and associated costs have been finalized for both the Accomack County and Northampton County. The project management team is designated and is composed of staff and employees with several years of experience in projects similar to the VATI grants. The counties have committed the financial resources to match the requirements of the VATI guidelines. The buildout will be completed within 18 months from the award date of the grant. The award date is the contract execution date between DHCD and the Accomack and Northampton Counties. The project timeline is shown in Attachment 7 – Timeline Project Management Plan.

The ESVBA has the experience and strategies to ensure timely completion of large scale projects such as the VATI program. As of May of 2022, the ESVBA had completed 741 miles of fiber network in the region. As an awardee of the 2022 VATI grant, the ESVBA anticipated and requested a prior authorization from the Department of Housing and Community Development (DHCD). With the authorization, the ESVBA purchased the materials on time and started construction on the day of the contract signature. The ESVBA has also recruited contractors with more advanced equipment and experience that are currently working on the 2022 VATI project. The contractors will work with the ESVBA during the entire VATI execution and beyond. In short, the ESVBA has maximized its capacity to acquire materials timely and to achieve a cost-effective and cost-efficient construction of the project.

A draft memorandum of understanding (MOU) between the Accomack and Northampton counties and ESVBA has been proposed. The MOU is included in Attachment 8-MOU.MOA between Applicant/Co-Applicant. A formal agreement will be signed between the Counties and the ESVBA when the grant is awarded.

Similar to previous projects completed in collaboration with counties, the role of the ESVBA is to implement the project according to the management plan. The ESVBA will report progress of work to the counties and request any necessary assistance from the counties for the completion of work. The ESVBA will also submit payments to the counties as required by contractual agreements. When the construction of segments and project areas is complete and is available for use, the ESVBA will issue a notice of service availability to the counties no later than a month prior the service availability date.

In the past, the counties have responded to requests for payment in a timely manner, assisted with securing rights of ways and required permits, and contacted citizens for additional permissions. Their assistance was key for timely completion of projects. The counties and the ESVBA have a comprehensive knowledge of the project areas, the conditions of the areas, and eventual requirements for working together for over 10 years. It is anticipated that the project will be completely executed within 18 months from the contract execution date. This timeline takes into account any normal delays based on similar projects completed in the past. However, in case of extraordinary circumstances beyond control, the ESVBA will ask for extension to complete the project. The ESVBA will send a request for extension before the expiration of the required 18-month period.

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12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

Answer:

Yes, the Eastern Shore of Virginia Broadband Authority (ESVBA) was awarded the 2022 VATI grant. The 2022 VATI award was the first VATI grant received by the ESVBA. The construction of the project is underway, and it is expected to be completed before the DHCD deadline, which is May 31, 2024.

13. Matching funds: Complete the funding sources table indicating the cash match and inkind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum20% match is required to be eligible for VATI, the private sector provider must provide10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. If applicants and co-applicants are seeking to include prior expended funds as matching funds, Attachment 11 must be completed. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding; Attachment 11 - Prior Expended Match Form

Answer:

The total cost to complete the project is \$12,705,251. The amount of VATI funds requested for the project is \$9,795,137, which represents 77.10% of the total project cost. The two counties are collectively contributing \$2,910,114, representing 22.90% of the required match. Prior expenditures were included as match fund. The breakdown of the funds and sources is included in Attachment 9-Funding Sources Table. The match fund is documented in Attachment 10-Documentation of Match Funding including three letters of funding commitment from the counties and the ESVBA. Based on previous similar projects completed, there have been no issues with accessing in-kind resources.

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

Answer:

Does not apply.

- 15. Communications Plan: Describe efforts to keep the public informed of project progress and the broadband adoption
 - a. Explain how you plan on communicating the project status to stakeholders, including but not limited to County leadership, project areas residents, etc. (Up to 10 points)
 - b. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)
 - c. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

Answer:

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The ESVBA has several ways of keeping residents and businesses informed of the project progress. The counties understand the importance of a vibrant and connected community. The most frequently used marketing strategy is the placement of door hangers at each home by well-trained sales representatives. Availability of service has always been communicated through libraries, schools, regional chamber of commerce, social services, and major institutions. Availability of service in new areas is aired on local radios and published in newspapers.

For the 2022 VATI project under construction, the ESVBA created a page on its website to update the public on places where the buildout is completed. To launch the 2022 VATI project construction, the ESVBA held a ribbon cutting event on June 29, 2022. The public, organizations, and county officials attended the public and were informed of broadband initiatives.

For over 14 years, the ESVBA has worked closely with community-minded leaders and residents, which makes it easier and more effective to inform all residents of broadband options available to them. In addition, most ESBVA employees have strong local connections, which helps with information sharing and promotion. Word-of-mouth has been important in passing the information to residents and communities. The customer service representatives are trained to not only take customers' concerns but also inform customers of the availability of broadband in new areas or new service packages. Whenever broadband becomes available in an area, the information is advertised on the website of the ESVBA and the counties for residents and retail providers. The counties obtained timely information because officials of both counties serve on the board of directors of the ESVBA.

The ESVBA has six years of experience in residential service provision. The ESVBA expects a take rate of 30% to 35% of the 6,896 units in the proposed areas during and within reasonable periods after construction. It is anticipated that retail providers that used the ESVBA open access network will expand their services to the newly-built areas, which will further increase the overall take rate. The same is true for bigger providers such as Spectrum and Verizon that have preferred to use the open access network to provide services in some areas. Once the project is completed, the ESVBA will inform all private stakeholders including the ISPs and big providers to participate in an information campaign to inform all communities.

The ESVBA currently provides the most reliable and fastest high speed internet on the Eastern Shore of Virginia. More residents than ever before are relying on their home internet connection for news, information, education, healthcare, e-entrepreneurship, telework, and entertainment. The reliability and accessibility of high speed lead residents of all ages, students, and business owners to trust the power of digital literacy in connecting them with a larger world of bigger opportunities. With reliable speed, they can digitally self-educate or participate in digital literacy activities to get the level of proficiency needed to conduct online businesses of their choice. The ESVBA receives compliments from residents, and more especially from retiree populations who are satisfied with the quality of broadband to connect with their doctors and providers.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities.

Answer:

The key individuals that are responsible for the management of the VATI project include the

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Executive Director, the Geographical and Information Systems (GIS) Analyst, the Account/Sales and Marketing Manager, and the Construction Manager. The management team is composed of experienced staff with several years of experience in the execution of similar projects including the ongoing 2022 VATI project. All the individuals work for the Eastern Shore of Virginia Broadband Authority (ESVBA). Please see the table below for the responsibilities and background of the management team members.

The ESVBA director and staff have 14 years' experience implementing large scale projects in Accomack and Northampton counties. The work includes the construction of an all-fiber network that is 741 miles long. The work includes underground and aerial installations and splicing. As an open access network, the ESBVA offers wholesale services to large and incumbent providers and to internet service providers (ISP). In late 2016, the ESVBA started offering residential services to residents on the Eastern Shore of Virginia and is currently serving over 2,400 residents.

The ESVBA and the counties have been collaborating to ensure that residents have access to broadband connectivity. They have implemented local level broadband assistance programs and federal levels programs including the Affordable Connectivity Program (ACP), which reduces the cost of connectivity to residents. As of August 2022, 86 customers were benefiting from the ACP program, collectively saving up to \$2, 580 a month in broadband cost. The counties provide in-kind resources to the ESVBA and its staff when needed, including resources for the 2023 VATI grant application.

Using their previous experience and strategic collaboration with counties, the ESVBA, staff, and counties will efficiently and effectively implement the VATI project to meet the goals of the VATI program for universal broadband access.

See Attachment 11- Letters of Support for letters from stakeholders. Attachment 10-Documentation of Match Funding includes letters from the two counties stating their committed funds and their support for the VATI project.

Name
Title and Organization
Responsibilities
Background

Robert Bridgham

Executive Director

Eastern Shore of Virginia Broadband Authority

All applicant activities including but not limited to project oversight, procurement, personnel management, vendor

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relations, network design and overall project deliverables.

Over 25 years in customer relations, Internet technologies, telecommunications, and ISP services as well as over two decades of experience in management of multiple teams, budgeting, collaboration as well as many engagements with local, regional, state and federal partners on projects and network deployments.

Nicole DeStefano

Analyst - Records and Geographical Information Systems (GIS)

Eastern Shore of Virginia Broadband Authority

Maintain all records of the network and all GIS data.

Design digital maps and analyze geospatial data

Over 5 years of experience in the telecommunications industry.

Over 3 years of experience in operations with city utility services and event planning

Kyle Bundick

Manager of Construction

Eastern Shore of Virginia Broadband Authority

Overseas jobs with internal and contract crews.

Reviews the engineering, architectural and splicing drawings to ensure that all standards and specifications are being followed.

Manages the ESVBA project management system to ensure jobs are tracked and progress communicated within the system.

Over 10 years of engineering experience in multiple industries, including 6 years as engineer at electrical cooperative, 3 years as engineer at precast/prestressed concrete company, 3 years as engineer and crew leader for surveying firm.

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Maria Stevens

Account Manager

Eastern Shore of Virginia Broadband Authority

Sales and marketing associated with customer acquisition.

Over 10 years of experience in sales, marketing, and customer service, including over 3 years of experience in sales and marketing in the telecommunication industry

17. Project Budget and Cost Appropriateness

Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates. (up to 10 points)

Answer:

The total project cost is \$12,705,251. The two counties are contributing a total of \$2,910,114 representing 22.90% of the total project cost. The remaining 77.10% representing \$9,795,137, is being requested from DHCD.

The cost for each service area has been specified. The total cost for the Accomack County project area is \$9,555,260.42. The match fund is \$1,998,298 of which \$1,839,470 is current match and \$158,828 is prior expenditure match. The cost covers 255.9 miles of construction.

The total cost for the Northampton County project area is \$3,149,990. The match fund is \$911,816 of which \$541,004 is current match and 370,812 is prior expenditure match. The cost covers 60.93 miles of construction.

A total of \$270,000 from the Vaucluse Shores community was used as a prior expenditure match. Though the construction occurred after June 2nd, 2021, it specifically occurred after December 13th, 2021, which per the VATI guidelines is disqualifying. However, the Vaucluse Shores community was being claimed by the DNG as a federally protected area and therefore could not be included in the 2022 VATI application even though the community itself pushed for it to be included in the ESVBA 2022 application. That is why Vaucluse Shores community should benefit from a special status and be considered as prior match in the 2023 VATI budget.

The ESVBA has 14 years of experience planning projects in the Eastern Shore where it implemented dozens of projects. The estimates by the ESVBA have always been accurate and three times lower than the estimates of expert groups hired to provide estimates, including the CTC Technology and Energy.

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- 18. The cost benefit index is comprised of state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following:
 - a. Total VATI funding request
 - b. Number of serviceable units (up to 125 points)

Answer:

- a. Total VATI funding request: \$12,705,251
- b. Number of serviceable units: 6,896 units
- 19. Commonwealth Priorities (Up to 50 points)

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program
- d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.
- e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

Answer:

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To date, the ESVBA has constructed 741 miles of fiber infrastructure. With that coverage, the ESVBA serves the community anchors including 23 schools, 46 government agencies and offices, and 35 medical and health facilities and sites and many more including 911 buildings, sheriff offices, library facilities, NASA, NAVY, and NOAA. The 2022 VATI covered eight (8) community anchor institutions. For the 2023 VATI application, nine new (9) community anchor institutions will be added . The broadband network expansion will have a significant impact for power companies because they will better monitor/maintain/operate the power grid. In addition, there are numerous Cell Towers that can now gain access to reliable/scalable/affordable telecommunications

With the 2023 VATI grant, the two counties in the Eastern Shore of Virginia will be completely built and ready for services, connection, and distribution to unserved and underserved communities. Broadband service connectivity will be available to residential homes, community anchor institutions, and businesses. Remote, hard-to-reach, and poor communities and areas will have access through the ESVBA open access network. Furthermore, the ISPs that currently use the ESVBA network will expand their reach to end-users. Before the 2023 VATI requiring the 100/20mbps, the areas could not be built because they were considered served as they were funded by USDA under the obsolete requirement of 25/3. With this major obstacle removed, the large extent of the 2023 VATI project is significant and impactful on communities and residents.

For the counties, the board of directors of the ESVBA, and the management of the ESVBA, digital equity is a priority. The current rates are fixed with digital equity in mind to ensure that low to moderate households can afford the cost while accessing high speed connections. When COVID-19 hit, the ESVBA doubled the speed of all residential services from their base rates to help subscribers meet the needs of conducting personal and professional business online. The rates are fixed and non-variable for residents and businesses. Furthermore, there are currently 27 ESVBA Wi -Fi hotspots for free access on the Eastern Shore region.

The counties take a proactive approach to ensure access to connectivity for residents. Accomack County is implementing a broadband assistance program that awards up to \$1,000 to low-income households to offset the installation costs. The ESVBA also implemented larger projects to help offset the installation cost for residents. The ESVBA implemented discount programs including the Affordable Connectivity Program (ACP) program which allowed residents to benefit from up to \$30 discounts on their monthly bills. As of August 2022, there were 86 residents subscribed to the ACP program, collectively saving more than \$30,000 a year. As onboarding continues, this number is expected to double in the next six months.

This proposed project contributes to the goal of ensuring universal broadband coverage to all residents, organizations, and businesses regardless of economic status, size, and geographical location on the Eastern Shore of Virginia. At the state level, this means that the Commonwealth of Virginia will achieve universal broadband access (100%) by June 2025. The 2023 VATI grant application is a planned construction of 316.78 miles. With the 270 miles from the 2022 VATI application, VATI is providing a total of 586.78 miles, which covers the whole region by June 2025. The open access network is very necessary for ensuring digital equity and opening opportunities impacting every aspect of the lives of rural Americans.

20.

Eastern Shore of Virginia Broadband Authority

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Additional Information

Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

Attachment 14 – Letters of Support.

Provide the two most recent Form 477 submitted to the FCC, or equivalent, as well as point, polygon, and, for wireless providers, RSSI shapefiles for the project area **in .zip file form**. With attachments 17 through 20, attach any other information that the applicant desires to include. Applicants are limited to four additional attachments.

Label Additional Attachments as:

- a. Attachment 15 –Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 16 Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 17 For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 18 XXXXXXX
- e. Attachment 19 XXXXXXX
- f. Attachment 20 XXXXXXX

Answer:

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Accomack and Northampton Counties Broadband Network Expansion Project FY2023

Dear Dr. Holmes:

The Accomack County and the Northampton County and the Eastern Shore of Virginia Broadband Authority (ESVBA) are pleased with the opportunity to apply for the 2023 Virginia Telecommunication Initiative (VATI) to complete the expansion of the open access fiber network on the Eastern Shore of Virginia.

Having been awarded the 2022 VATI grant which had taken the coverage rate to 80%, our 2023 VATI grant takes the coverage to 100%. The ESVBA application will cover areas that became eligible after the FCC adopted the 200/20 as the minimum speed requirement. With newly-eligible areas not meeting the requirements, our project meticulously identified the areas and communities that were still left out of the digital world because of obsolete and non-practical requirements.

I have responded to the questions that applied to my agency and the counties and uploaded all applicable documentation.

Should you need further clarifications while you are reviewing my application, please do not hesitate to reach out to my office.

I appreciate your time and consideration of this application for the 2023 VATI grant.

Sincerely,

Robert Bridgham

Executive Director, Eastern Shore of Virginia Broadband Authority (ESVBA).

Email: rbridgham@esvba.com

Phone: 757 414-0304

Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreamap825202261219.pdf

Documentation of Federal Funding (CAF/ACAM/USDA/RDOF, etc...) in and/or near proposed project area.

Attachment2DocumentationofFederalFundingArea8252022114842.pdf

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Documentation that proposed project area is unserved based on VATI criteria

Attachment3DocumentationofUnservedAreas825202261053.pdf

Passings Form (Use template provided)

Attachment4PassingsForm8252022114853.pdf

Documentation of RDOF awarded area in VATI project Area (Use template provided)

Attachment 5RDOFA warded Areas included in VATIA pplication 8252022115307. pdf

Timeline/Project Management Plan

Attachment7TimelineProjectManagementPlan8252022115431.pdf

MOU/MOA between applicant/co-applicant (can be in draft form)

Attachment8MOUMOAbetweenApplicantCoApplicant18252022121152.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourcesTable825202233506.pdf

Documentation of Match Funding

Attachment10DocumentationofMatchFunding825202233756.pdf

Prior Expended Match Form (use template provided)

Attachment11PriorExpendedMatchForm825202233548.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCosts825202233523.pdf

Documentation of Supporting Cost Estimates

Attachment13DocumentationofSupportingCostEstimates8252022114934.pdf

Letters of Support

Attachment14LettersofSupport8252022120845.pdf

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Two most recent Form 477 submitted to the FCC or equivalent

Attachment15TwomostrecentForm4778252022121309.pdf

Point and Polygon shapefiles, in zip file form, showing proposed passings and project area

Attachment16PointandPolygonShapefiles8252022121549.zip

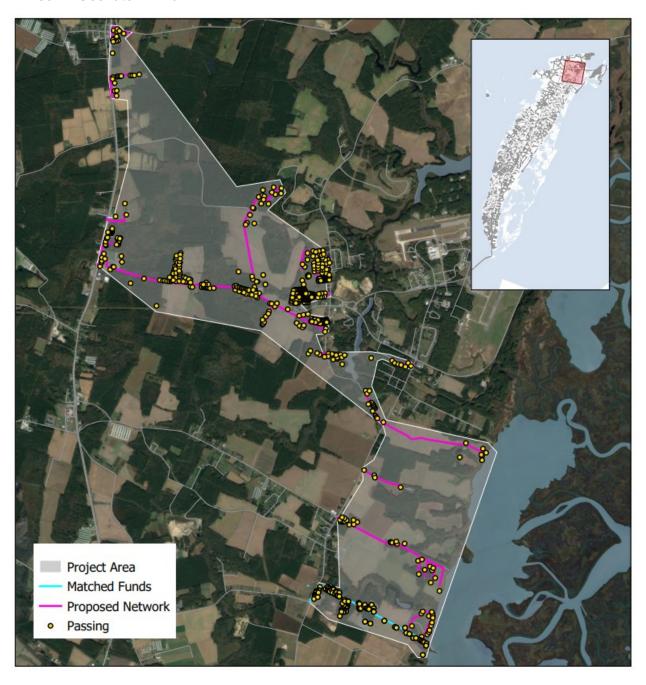
Optional

FOIAEXEMPTIONREQUEST8252022115014.pdf

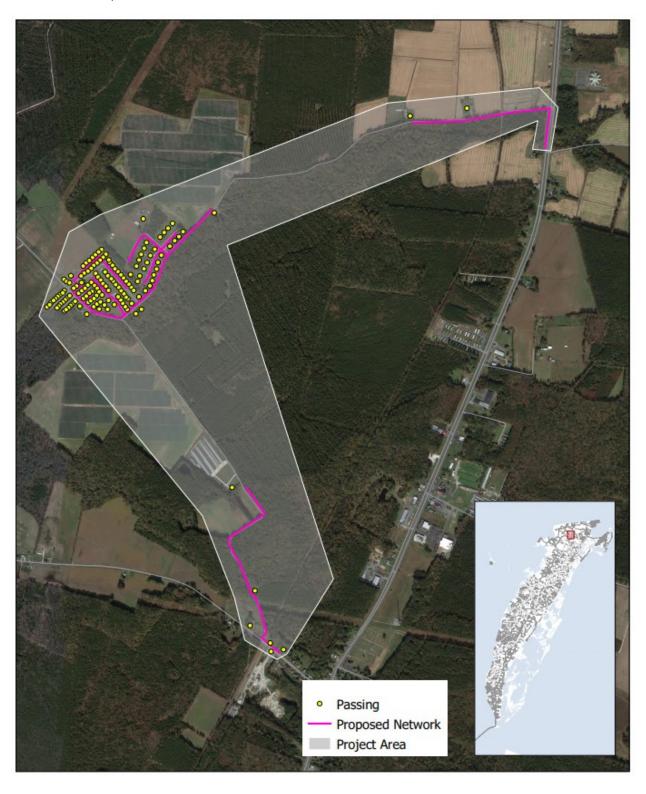
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2023 VATI PROJECT AREAS

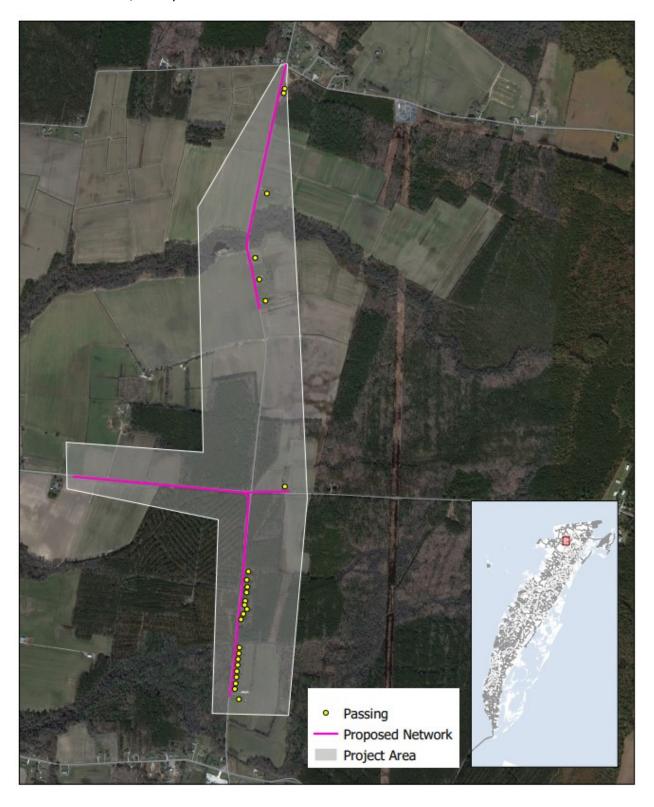
Area 1: Coardtown Rd



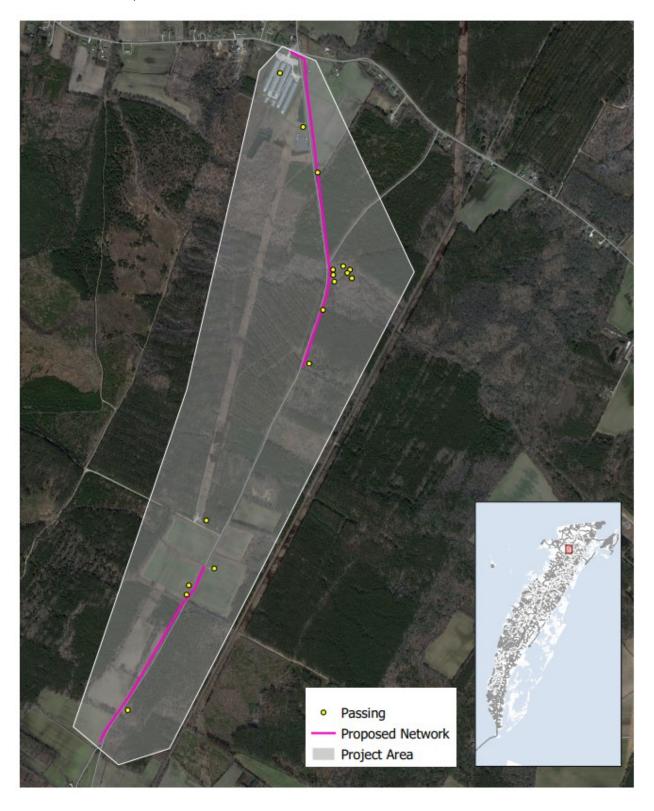
Area 2: Greenhill/Holland Rd



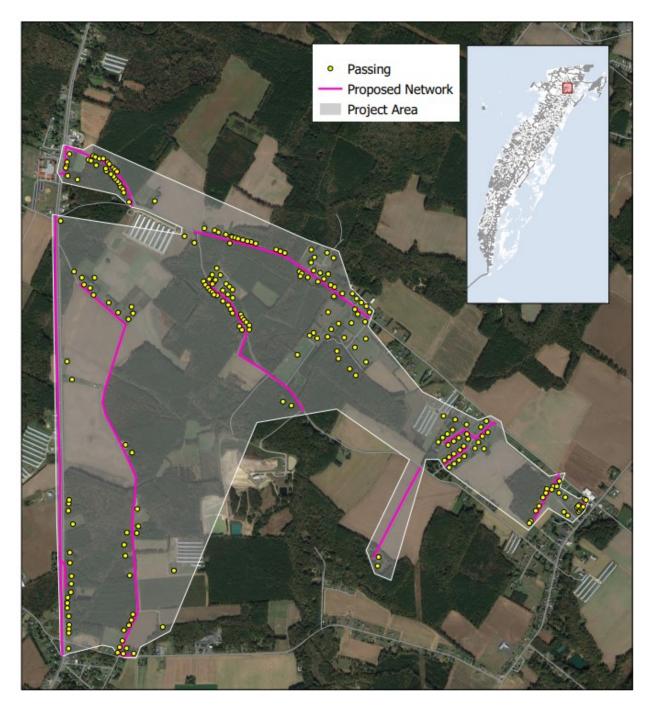
Area 3: Neal Parker/Horsey



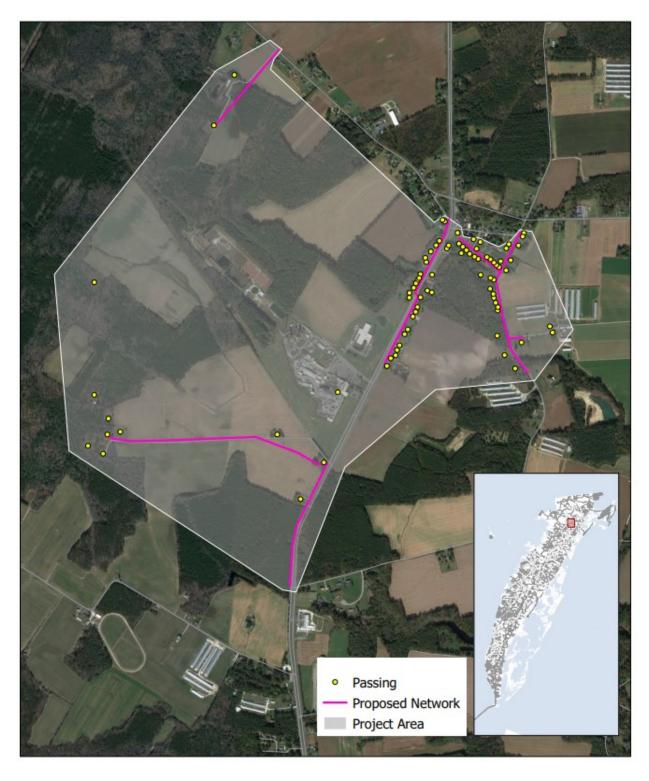
Area 4: Neal Parker /Hallwood



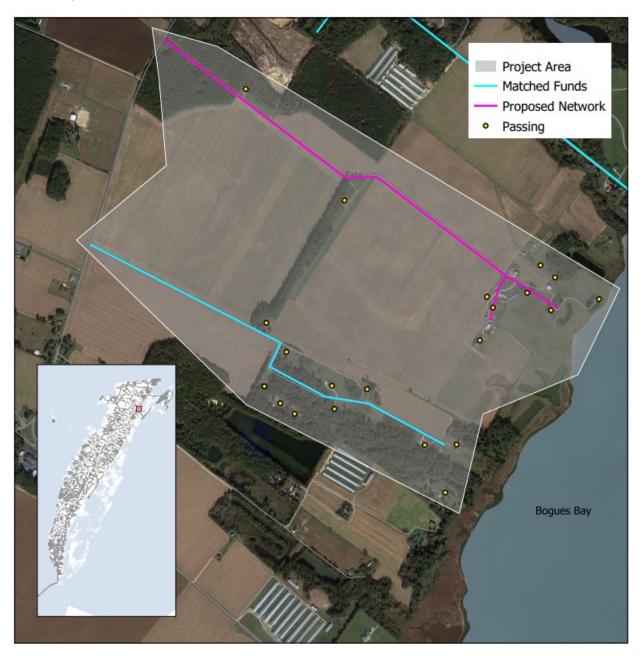
Area 5: Jerusalem Rd



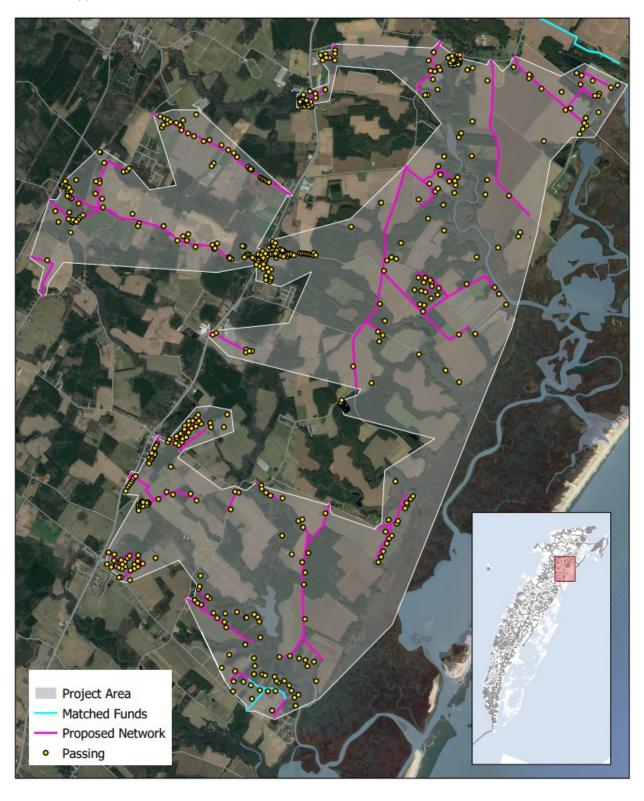
Area 6: Parks Farm



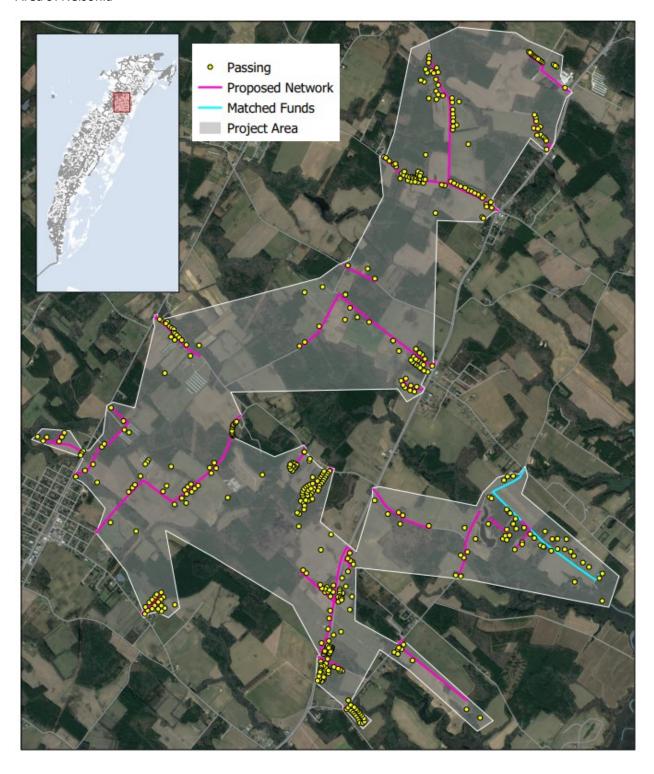
Area 7: Taylor Farm



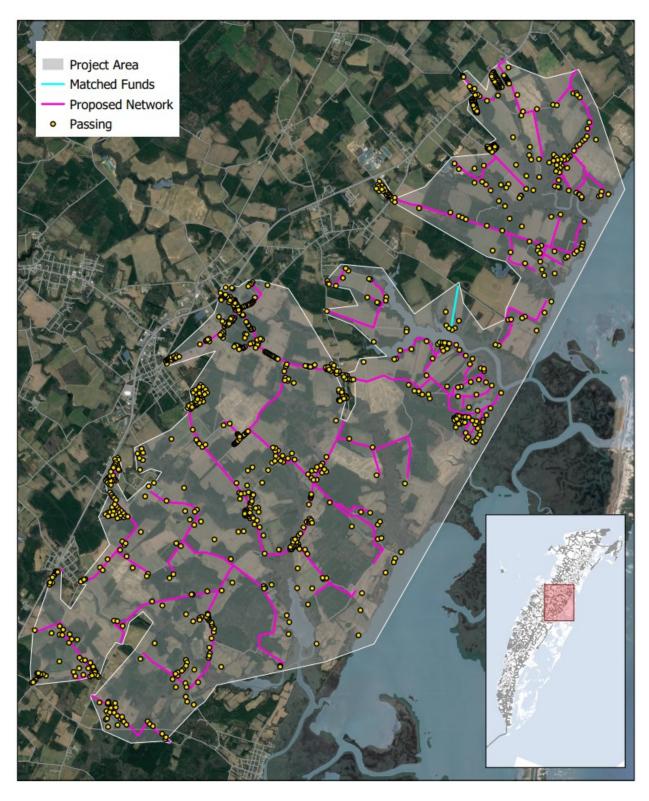
Area 8: Mappsville



Area 9: Nelsonia



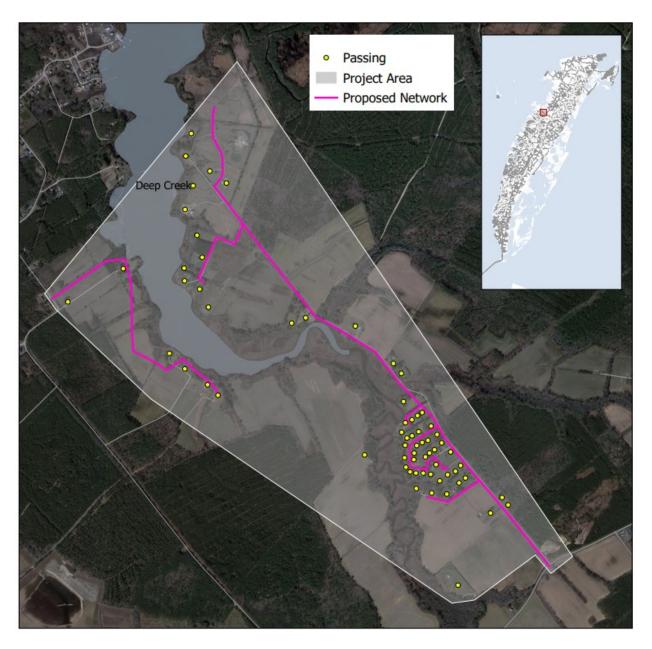
Area 10: East Accomac



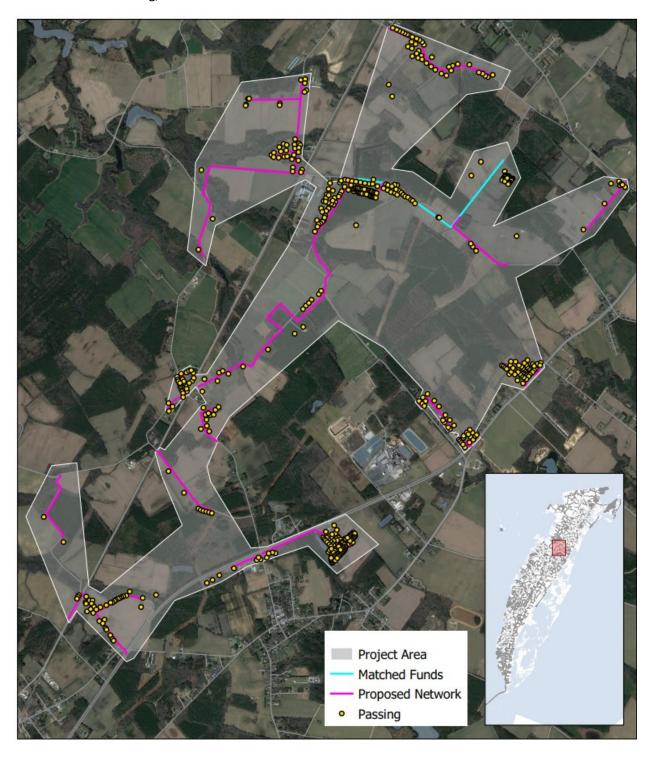
Area 11: Ocean View Way



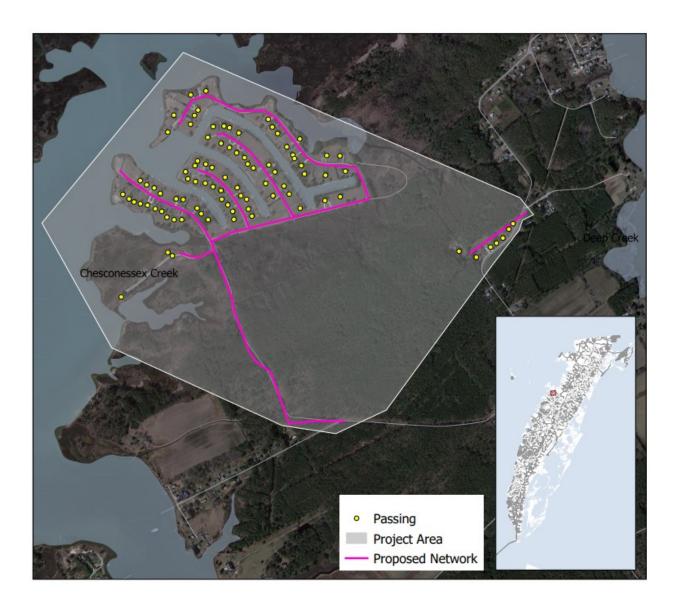
Area 12: Mink Farm



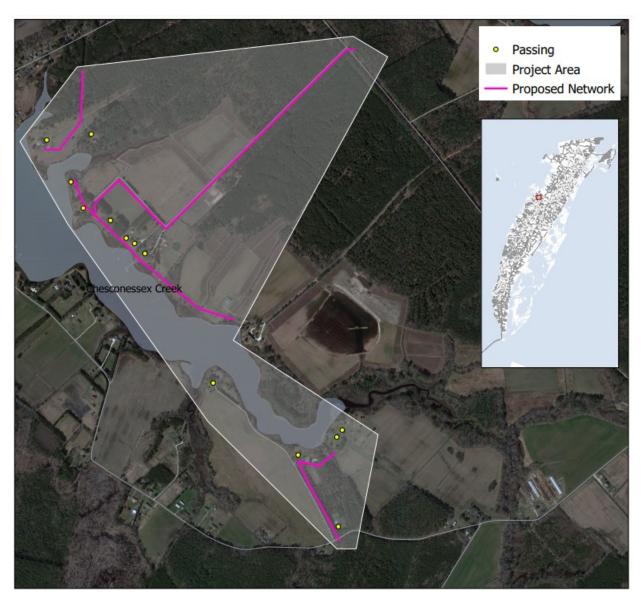
Area 13: Chase Crossing/Greenbush



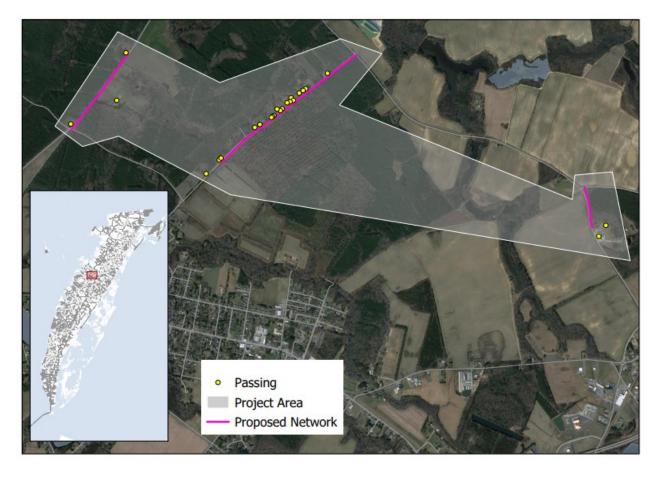
Area 14: Schooner Bay



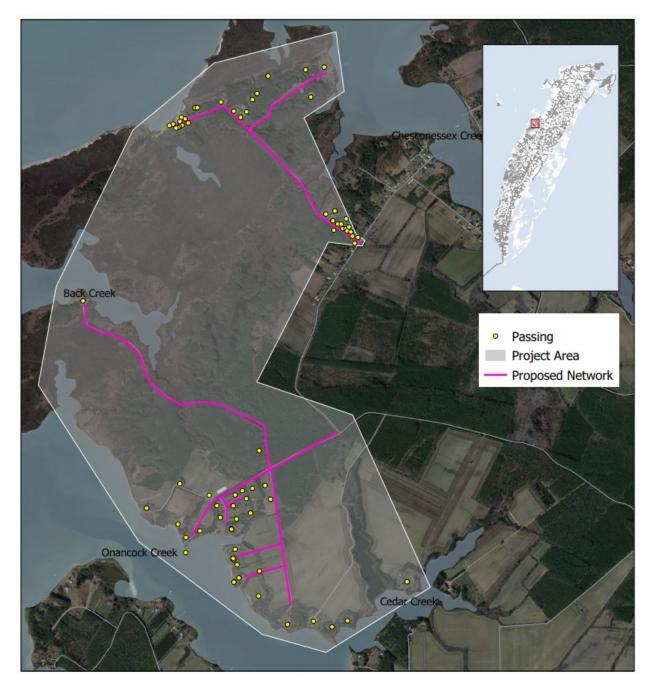
Area 15: Robbins Ln



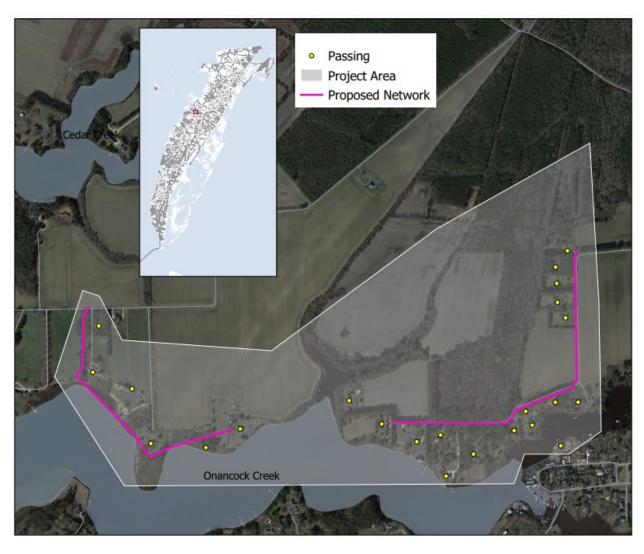
Area 16: Town Rd



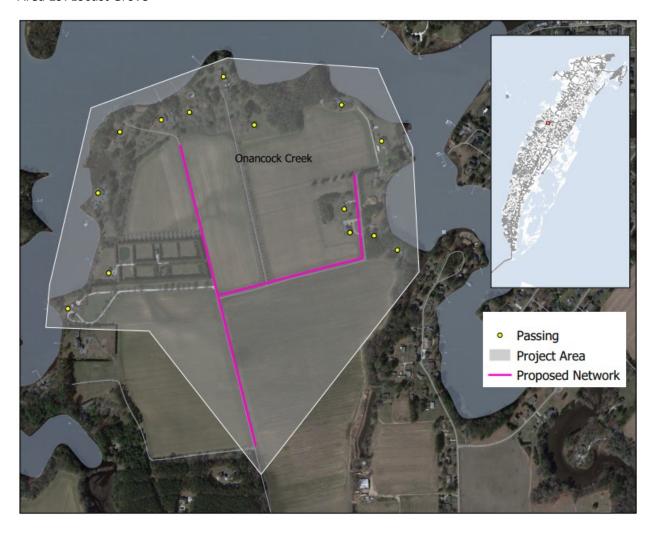
Area 17: Back Creek



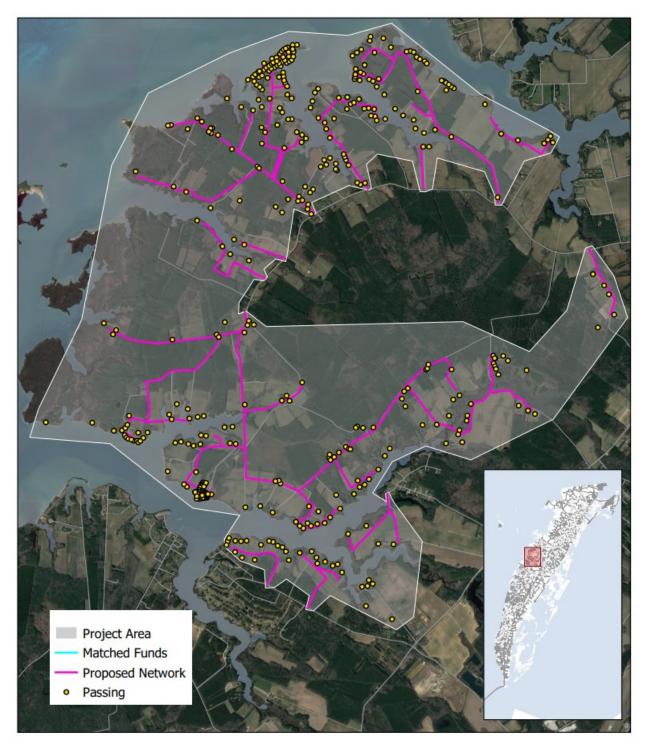
Area 18: W. Onancock

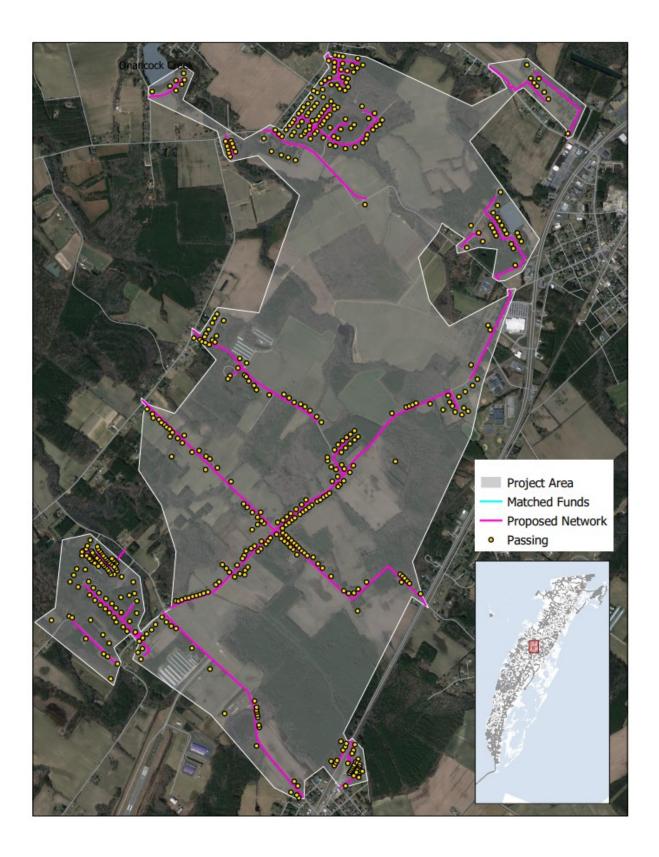


Area 19: Locust Grove

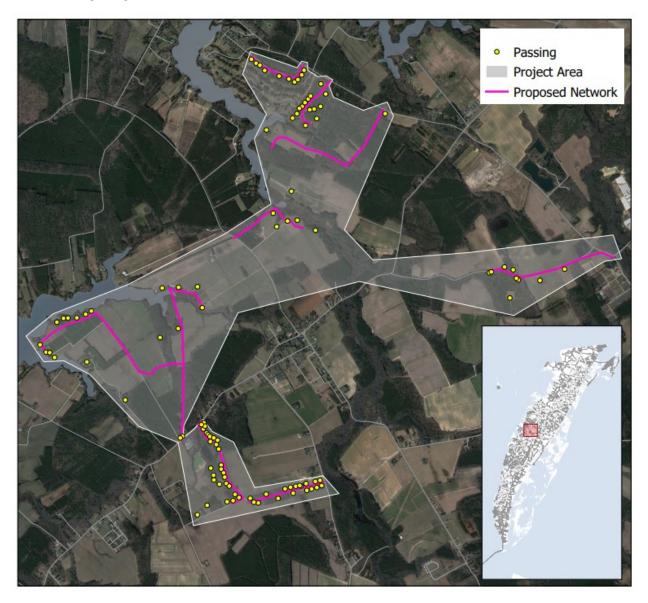


Area 20: East Point/Mt Nebo

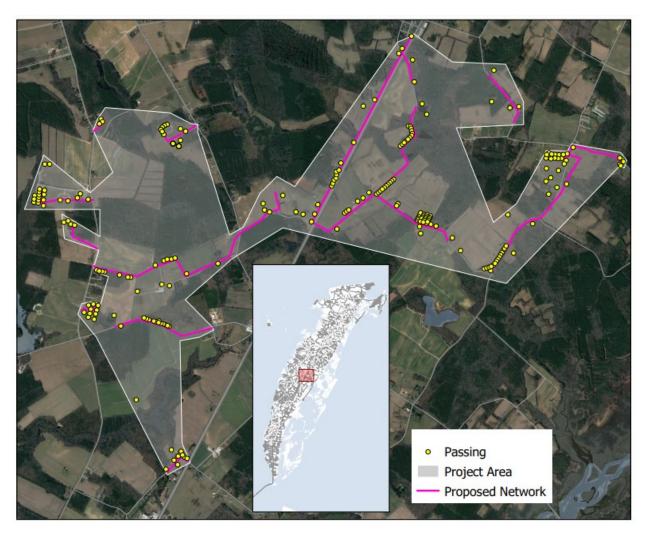




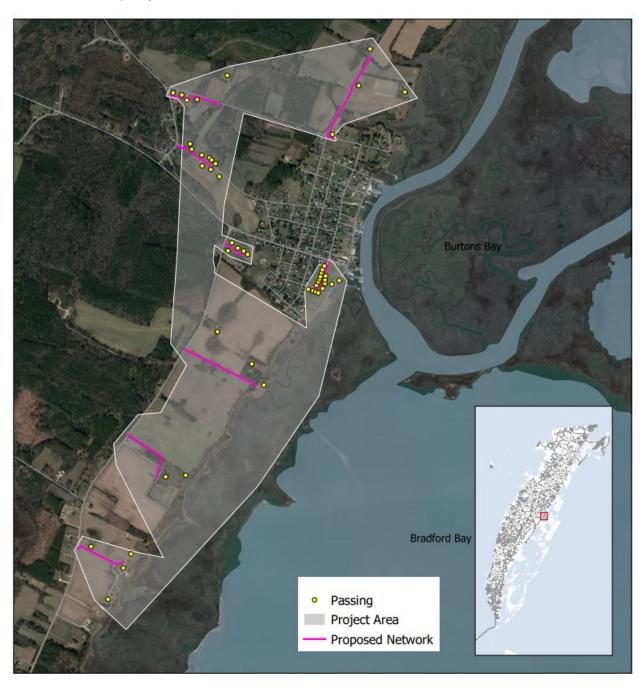
Area 22: Pungoteague



Area 23: N. Painter



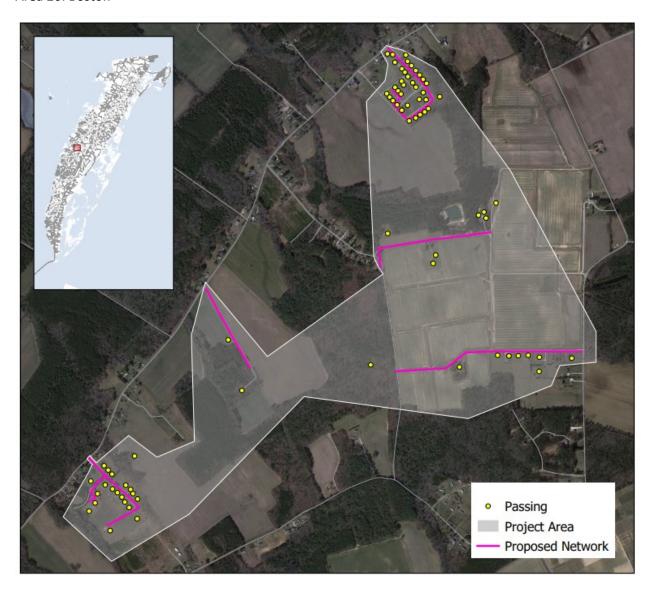
Area 24: S. Wachapreague



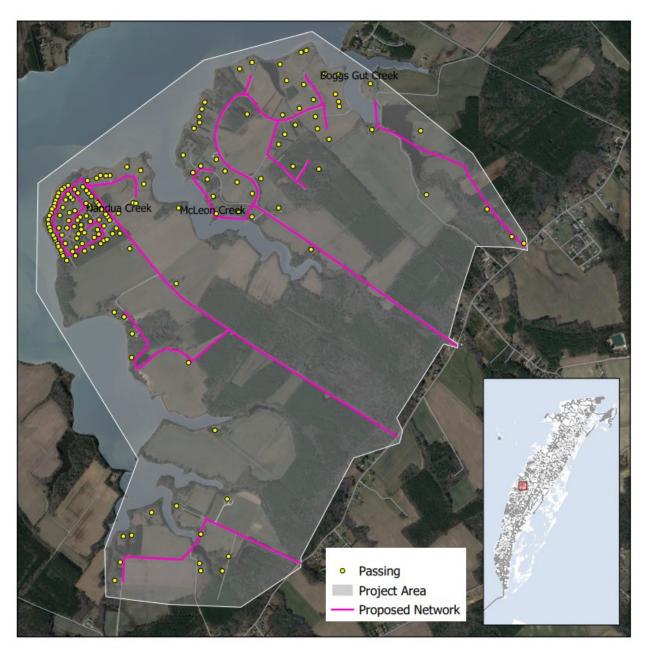
Area 25: Quinby



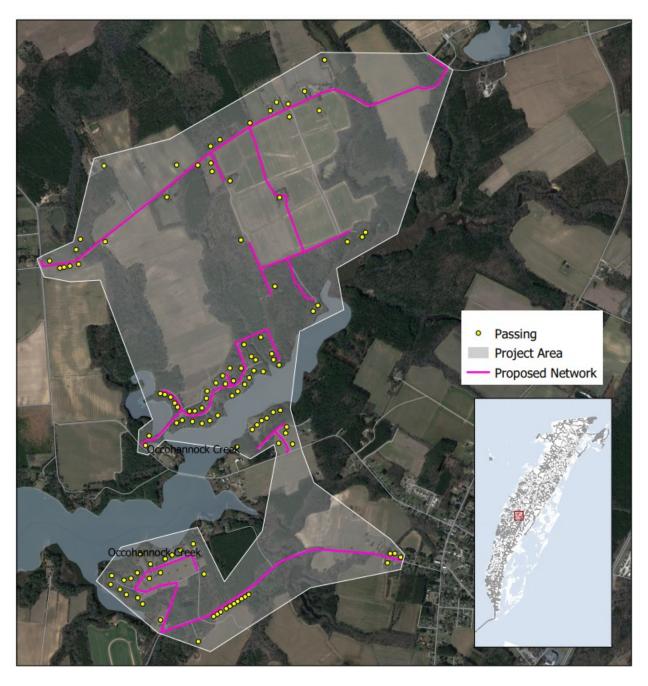
Area 26: Boston



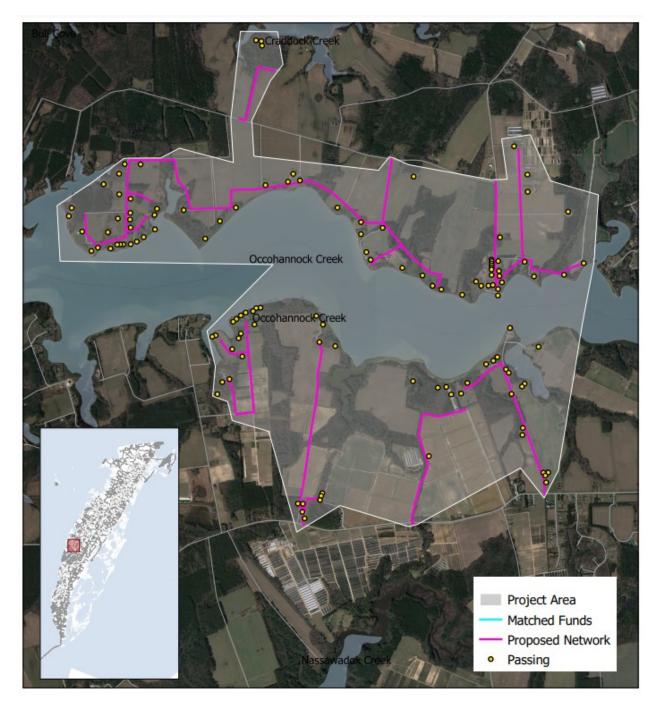
Area 27: Nandua Creek



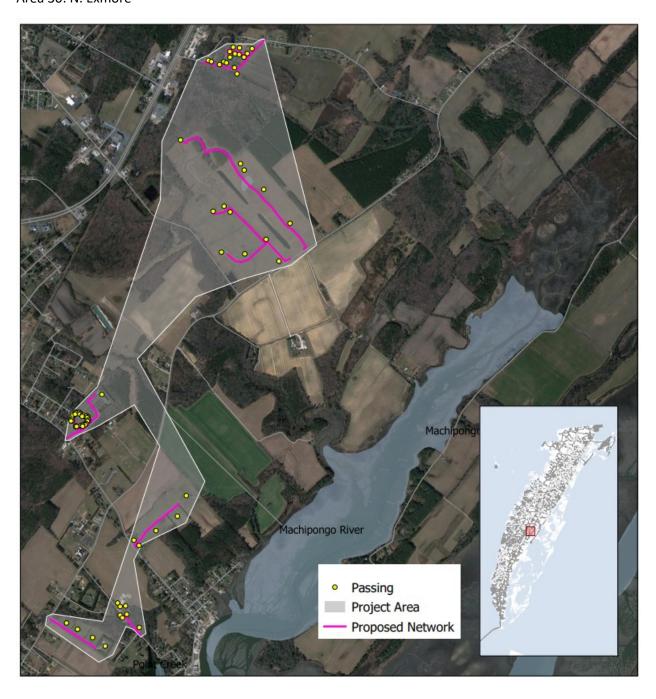
Area 28: Indian Trail



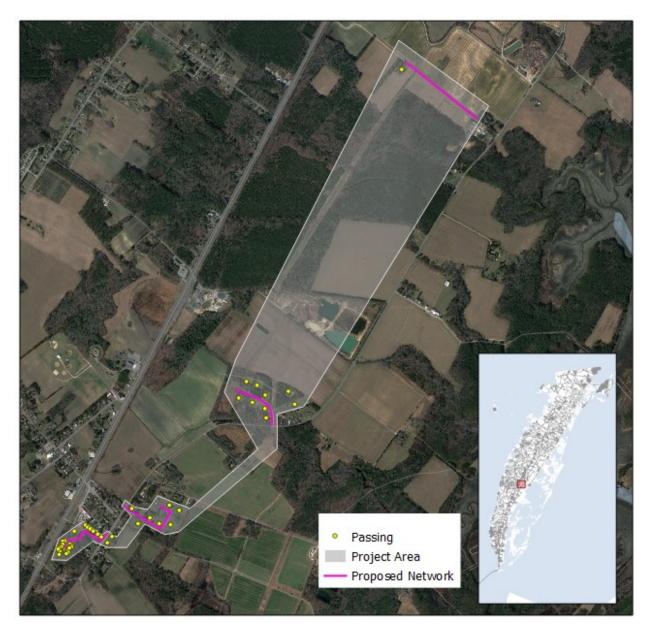
Area 29: Occohannock Creek



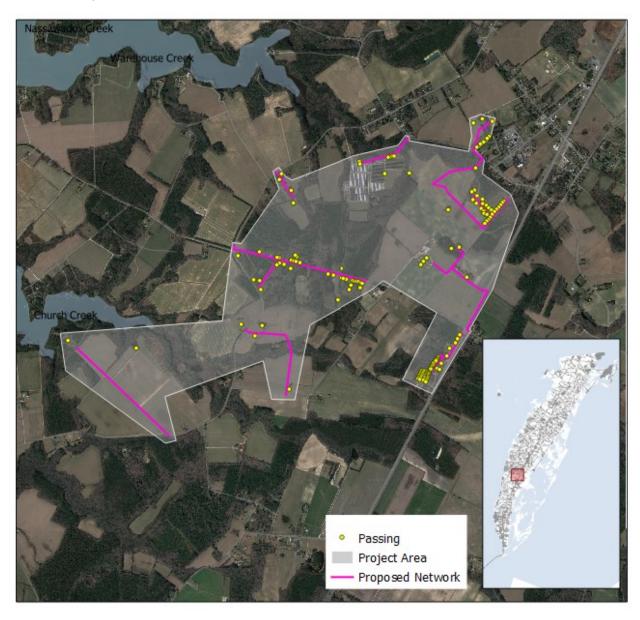
Area 30: N. Exmore



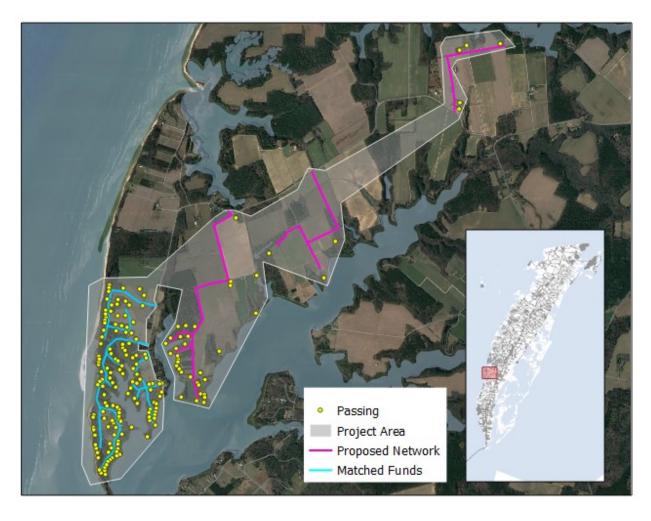
Area 31: E. Nassawadox



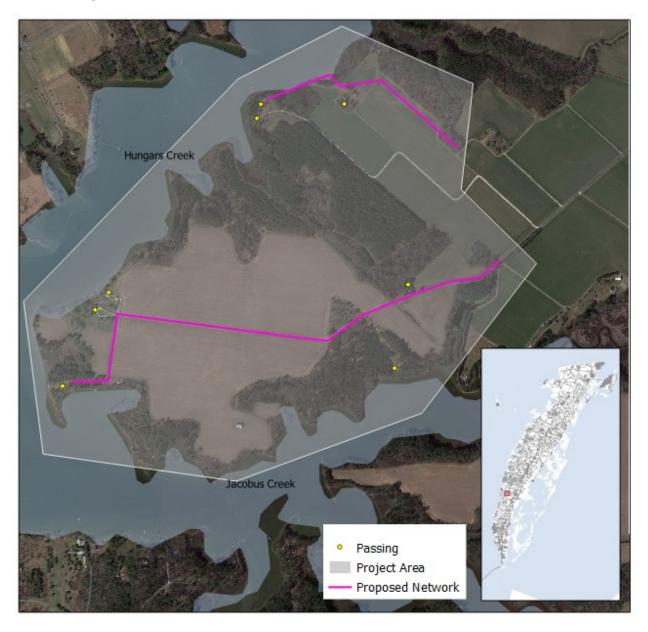
Area 32: E. Bayford Rd



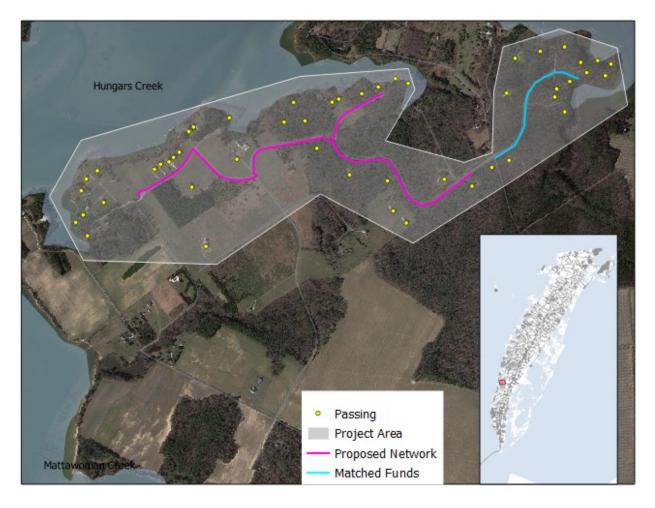
Area 33: Church Neck



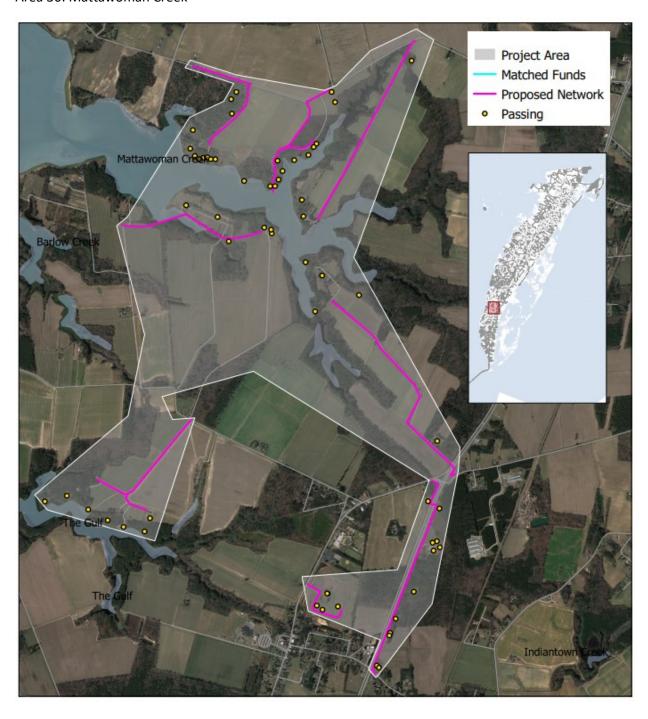
Area 34: Hungars



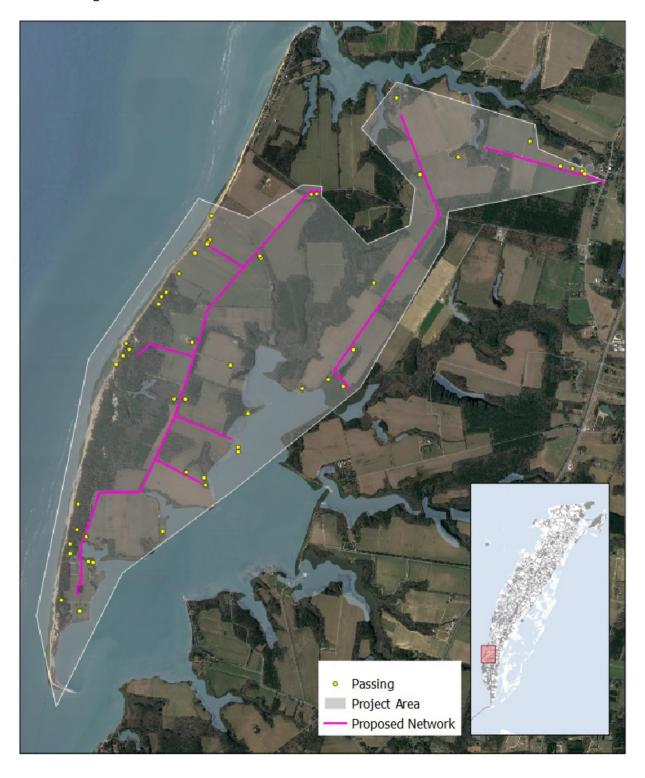
Area 35: Wilsonia Neck



Area 36: Mattawoman Creek



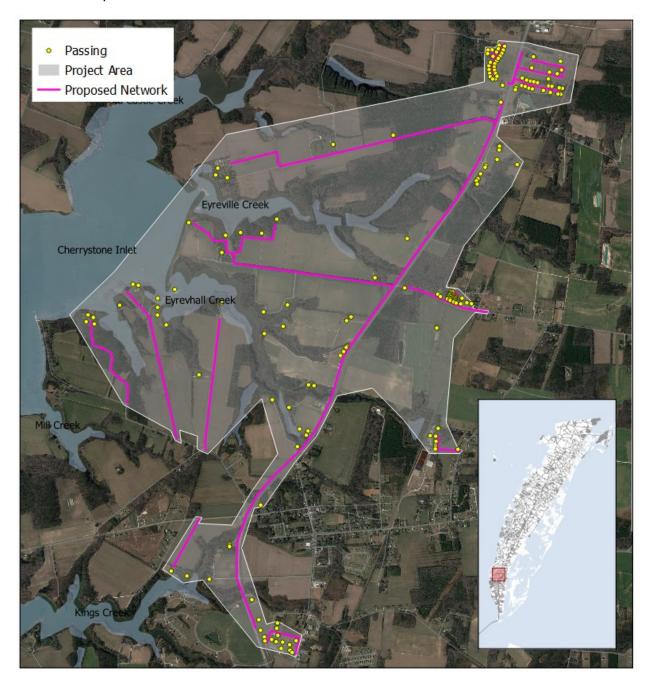
Area 37: Savage Neck



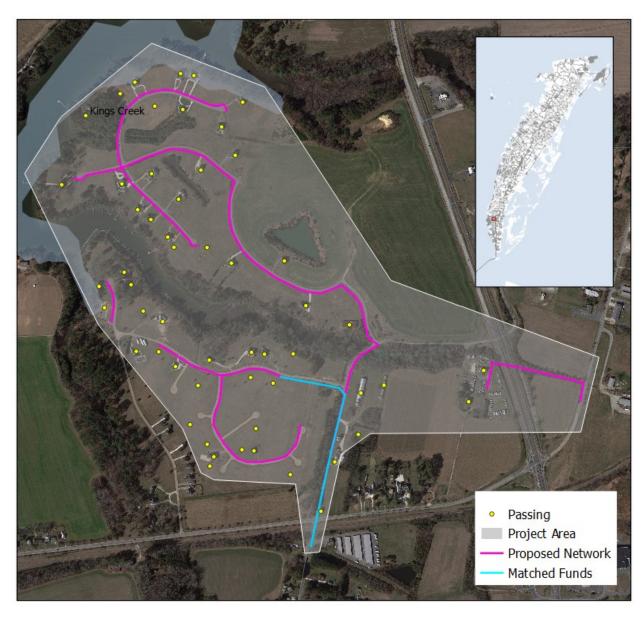
Area 38: Stumptown



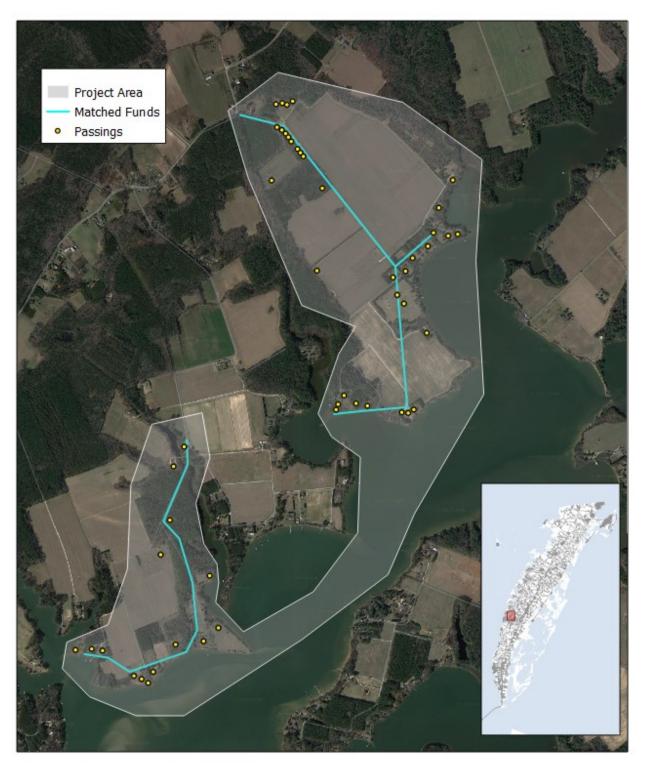
Area 39: Cherrystone Inlet

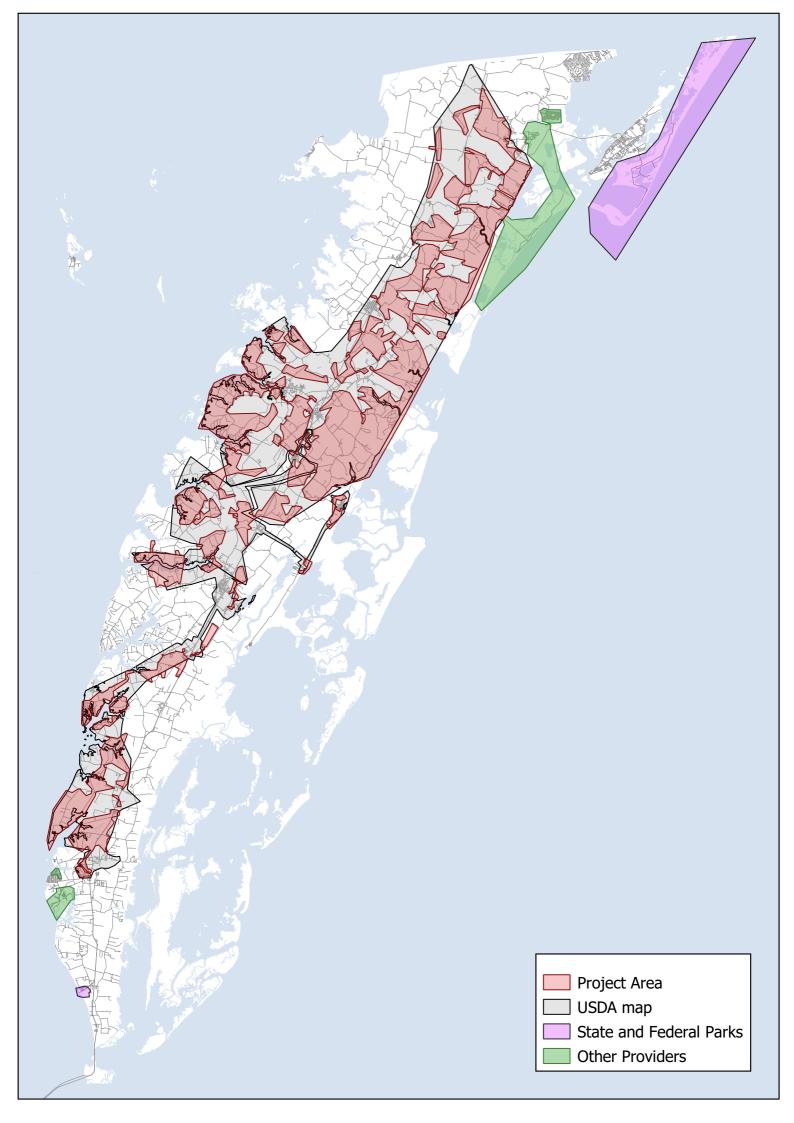


Area 40: Tower Hill



Area 41: James Whard/Saltworks





The ESVBA was provided access to the pole attachment records by the local power cooperative here on the Shore. An analysis of the proposed project area was done leveraging the data for Charter's pole attachments. The analysis used GIS buffering to produce Charters network reach within the project area. Buffered pole attachment data was used both inside and outside the project area to produce accurate results due to the possibility that Charters network may reach inside of the project area from outside poles. The resultant areas are all under 20% coverage of Charter/Spectrum who is the only other provider on the shore providing 100/20Mbps of wireline services.

Of note, the data used to produce Charters service coverage is indicating all poles Charter is licensed to be operating on and include areas that Charter only has Cable television and not necessarily broadband services. This analysis thereby provided an overestimate of Charter's network. The ESVBA is aware many areas are licensed with the power cooperative however, an attachment may not exist. Additionally, in many of the areas, Charter may have a wire on the pole line but does not provide Broadband as one of the services in those areas. We are confident that this provides a very conservative estimate of other providers which confirms the proposed areas have less than 20% coverage and ensures that the proposed areas are well justified to receive funding.

The ESVBA leveraged pole attachment data however, we do not have authorization to share this data in a public application. We will work with DHCD and the power cooperative if DHCD requires validation of data.

The steps that were taken to produce this analysis is as follows:

- Point shape files containing Charter's pole attachment records from a 2016 audit, a 2020 audit, and a 2021 audit were combined, a union algorithm was used to produce a point file containing multiple years of Charter's pole records.
- A buffer algorithm was used to place a 300-foot buffer around each Charter pole point, producing Charter's maximum service access with no special install costs passings. Note: Charter poles were not limited to the project area. All pole points were buffered to produce valid results due to the possibility that Charter's network could reach into the project area from poles outside the project area.
- An intersection algorithm was then used, input layer set as passings within the project area and overlay layer set as buffered Charter pole points.

2023 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area ¹	Passings in the Project Area, without Special Construction Costs Required ²	Passings with Special Construction Costs budgeted in the Application ³	Number of Passings with Speeds at 25/3 or below in Project Area ⁴				
Residential	6887	4537	2350	6887				
Businesses (non-home based)	Not Identifiable	Not Identifiable	Not Identifiable	Not Identifiable				
Businesses (home-based)	Not Identifiable	Not Identifiable	Not Identifiable	Not Identifiable				
Community Anchors	9	8	1	9				
Non-residential	Not Identifiable	Not Identifiable	Not Identifiable	Not Identifiable				
Total	6896	4545	2351	6896				

Note: The special construction passings are NOT budgeted into the proposed budget. These passings will be covered by the Line Extension Customer Assistance Program (LECAP).

Note: The Total Number of Passings <u>MUST</u> be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.

Note: Do not include passings in RDOF awarded areas that were awarded to the co-applicant; these passings should be included in the RDOF Passings Form. Passings included in this application in RDOF awarded areas that were not awarded to the co-applicant, unless successfully challenged, are considered unserved and should be counted as passings in this form.

¹The total number of structures in the project area that can receive service. See definition of passing below for more detail.

²The number of structures in the project area that will not require special construction costs to provide service to. These passings fall within the broadband provider's standard service connection drop length and do not require nonstandard equipment or any additional fees above normal service connection fees required to provide broadband access to a premise.

³The number of structures in the project area with all construction costs budgeted in the application. These passings will not require any additional special construction costs beyond those budgeted for in the VATI application.

⁴The number of structures in the project area that do not have access to internet at speeds of at least 25 mbps download and 3 mbps upload.

Definitions

Passing – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

Business – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

Community Anchor - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

Non-Residential Passing – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

2023 Virginia Telecommunication Initiative (VATI) RDOF Passings Form

Type of Passings	Total Number of Passings in the Project Area that lie within Preliminarily Awarded RDOF Areas ¹
Residential	0
Businesses (non-home based)	0
Businesses (home-based)	0
Community Anchors	0
Non-residential	0
Total Number of RDOF Passings	0

Note: The Total Number of RDOF Passings <u>MUST</u> be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.

Definitions

Passing – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

Business – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

Community Anchor - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

Non-Residential Passing — places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Tasks																		
Approval/ Release of funds from VATI																		
Project planning																		
Site Survey																		
Easement research and acquisition																		
Procurement																		
Design engineering																		
Permit acquisition																		
OSP fiber build																		
Equipment installation and turn up																		
Market launch																		
Special construction finalization																		

The ESVBA has been preparing for the expansion through VATI 2023 including pre-ordering materials, having some critical segments engineered and working with vendors to prepare for project launch ensuring materials and human resources being prepared for project kickoff.

Memorandum of Understanding

This Memorandum of Understanding ("MOU") is made and entered into effective this August 15, 2022 ("Effective Date") by and between County of Accomack, with office located at 23296 Courthouse Avenue, Suite 203, P.O. Box 388, Accomack, Virginia 23301; County of Northampton with office located at 6404 Courthouse Rd, Eastville, Virginia 23347; and Eastern Shore of Virginia Broadband Authority (ESVBA), with office located at 4174 Lankford Hwy, Exmore, VA 23350. Collectively, County of Accomack, County of Northampton, and Eastern Shore of Virginia Broadband Authority (ESVBA) may be referred to below as the Parties and individually referred to as Party.

WHEREAS County of Accomack, County of Northampton, and Eastern Shore of Virginia Broadband Authority (ESVBA) desire to cooperate with one another as co-applicants for a Virginia Telecommunication Initiative ("VATI") grant referred to herein as the Accomack and Northampton Counties Broadband Network Expansion Project FY2023.

NOW, THEREFORE, in recognition of their mutual interests and desires, the Parties do hereby express their desire to agree to the following:

INTENT: The Parties will collaborate as co-applicants on a VATI grant to support the building of fiber in the area identified on the map attached hereto as Exhibit A and incorporated by reference herein.

Upon grant award, County of Accomack and County of Northampton intend to act as the conduit of funds for the Accomack and Northampton Counties Broadband Network Expansion Project FY2023. Eastern Shore of Virginia Broadband Authority (ESVBA) intends to build and solely own the fiber installed for, provide the labor necessary for, and operate and maintain the fiber and customer base for the Accomack and Northampton Counties Broadband Network Expansion Project FY2023.

This MOU is not intended to create a binding contractual relationship between the Parties. The Parties agree that it would be in their best interests to negotiate a binding agreement should a grant for the Accomack and Northampton Counties Broadband Network Expansion Project FY2023 be awarded to the Parties by VATI.

EXPIRATION: This MOU expires upon the earlier occurrence of (i) two (2) years from the Effective Date above; (ii) execution by the Parties of a mutually agreed upon and fully negotiated binding agreement; (iii) an official announcement by VATI that the grant opportunity has been canceled; or (iv) the Parties do not receive a grant award from VATI.

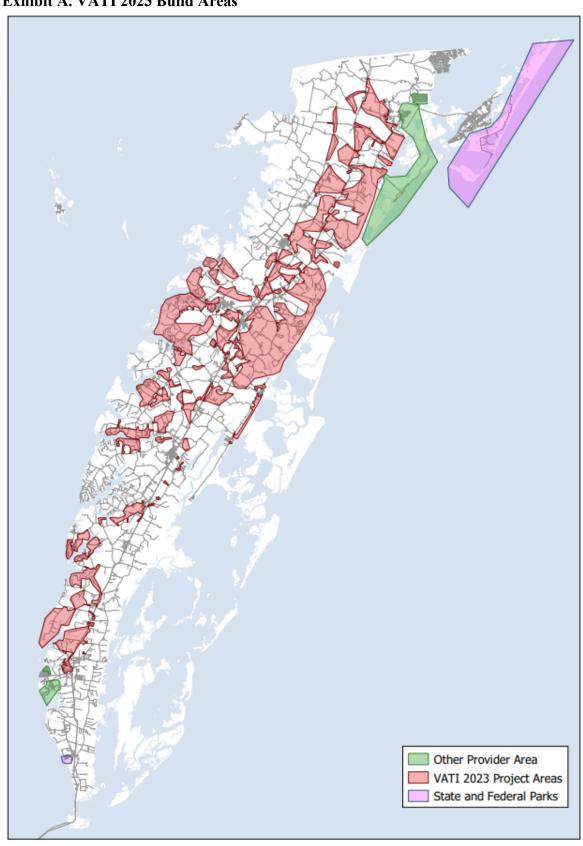
ENTIRE AGREEMENT: The foregoing paragraphs and references contain the entire MOU between the Parties and supersede any previous understandings, commitments, or agreements (oral or written) with respect to the Accomack and Northampton Counties Broadband Network Expansion Project FY2023 referenced herein. Neither this MOU as a whole, or any single portion thereof, shall be deemed binding upon the Parties, unless and until incorporated into a binding agreement properly executed by representatives of the Parties, each acting within the scope of a properly authorized delegation of authority. Notwithstanding the foregoing, the

representatives of the Parties executing this document warrant by their signatures that they will act in good faith and diligence to achieve the intent manifested herein.

The Parties hereto have caused this MOU to be executed by their authorized representatives as set forth below.

County of Accomack	
By:	
Name:	
Title:	
Date:	
County of Northampton	
By:	
Name:	
Title:	
Date:	
Eastern Shore of Virginia Broadban	d Authority (ESVBA)
By:	
Name:	
Title:	
Date	

Exhibit A. VATI 2023 Build Areas



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	\$9,795,137	77.10%	Pending
Accomack current match	\$1,839,470	14.48%	Secured
Northampton current match	\$541,004	4.26%	Secured
Accomack Prior Expend Match	\$158,828	1.25%	Expended
Northampton Prior Expend Match	\$100,812	0.79%	Expended
Vaucluse Shores	\$270,000	2.12%	Expended
TOTAL	\$12,705,251	100.00%	

COUNTY OF ACCOMACK OFFICE OF THE COUNTY ADMINISTRATOR



23296 Courthouse Ave – Room 203 | P.O. Box 388 | Accomac, Virginia 23301 (757) 787-5700 | administration@co.accomack.va.us www.co.accomack.va.us

Michael T. Mason, CPA County Administrator

August 18, 2022

Tamarah Holmes, Ph.D.
Director
Department of Housing and Community Development
Office of Broadband
600 E Main St #300, Richmond, VA 23219

Dear Dr. Holmes:

Accomack County seeks assistance from the Department of Housing and Community Development to meet the critical need for broadband service in our rural community. Please accept this letter of support for a Virginia Telecommunication Initiative (VATI) grant from Accomack County in partnership with the Eastern Shore of Virginia Broadband Authority (ESVBA). This project is designed to expand broadband access by building 255.9miles to 5,750 serviceable units.

The Accomack Board of Supervisors recognizes the need for broadband in our community to support education, healthcare, and our economic base. To this end, the Board of Supervisors voted to provide a local match of up to \$1,839,470 to support this project if the ESVBA is not able to raise the match capital in time for the VATI FY23 application.

As a community, Accomack County understands the importance of broadband in our daily lives at home and work and seeks solutions for unserved and under-served areas in our county. The pandemic has significantly emphasized the need and the importance of broadband for our school system, telehealth, and economic activity to adapt to current and future crises and pandemics. The VATI support is important to reach universal coverage and ensure access to all residents and community support organizations.

Please let me know if I can provide any further support for this application. On behalf of the Board of Supervisors and the residents of Accomack County, I appreciate your assistance and your serious consideration of this application.

Sincerely yours.

Michael T. Mason, CPA County Administrator



Poard of Supervisors of Northampton County P.O. Pox 66 • Kastville, Virginia 23347

Charles Kolakowski
County Administrator

PHONE: 757-678-0440 FAX: 757-678-0483

August 8, 2022

BOARD OF SUPERVISORS
M.E. "Betsy" Mapp, Chairman
Oliver H. Bennett, Vice Chairman
John R. Coker
L. Dixon Leatherbury
Ernest L. Smith, Jr.

Tamarah Holmes, Ph.D., Director Department of Housing and Community Development Office of Broadband 600 E Main St #300, Richmond, VA 23219

Dear Dr. Holmes:

Northampton County seeks assistance from the Department of Housing and Community Development to meet the critical need for broadband service in our rural community. Please accept this letter of support for a Virginia Telecommunication Initiative (VATI) grant from Northampton County in partnership with the Eastern Shore of Virginia Broadband Authority (ESVBA). This project is designed to expand broadband access to 952 serviceable units.

The Northampton Board of Supervisors recognizes the need for broadband in our community to support education, healthcare, and our economic base. To this end, the Board of Supervisors voted to provide a local match up to \$541,004 to support this project if the ESVBA is not able to raise the match capital in time for the VATI FY23 application.

As a community, Northampton County understands the importance of broadband in our daily lives at home and at work and seeks solutions for unserved and under-served areas in our county. The pandemic has significantly emphasized the need and the importance of broadband for our school system, telehealth, and economic activity to adapt to current and future crises and pandemics. The VATI support is important to reach universal coverage and ensure access to all residents and community support organizations.

Please let me know if I can provide any further support for this application. On behalf of the Board of Supervisors and the residents of Northampton County, I appreciate your assistance and your serious consideration of this application.

Sincerely yours,

CHARLES KOLAKOWSKI

County Administrator

Attachment 11 – Prior Expended Match Form

Local Government expenditures incurred after June 2, 2021, one year prior to the application open date, are eligible to be included in the application as match funds. Incurred expenses must be related to the proposed VATI project and meet VATI criteria. Expenditures incurred by internet service providers after December 13, 2021 are also eligible to be included in the application as match funds. For these match funds to be considered, the co-applicant internet service provider and local government applicant must have been unsuccessful in the FY22 round of VATI. Please complete the table below to explain any prior expended funds which have been considered as matching funds in this application. Incurred expenses must also be directly related to the proposed VATI project and meet VATI criteria. DHCD staff reserves the right to make administrative determinations on the validity of matching funds and accept a proportion of the funds when necessary.

	Prior Expended Match Table					
Expense Incurred By: (Local Government or Internet Service Provider)	Source: (Local, State, Federal, Other, Loan, etc.) Please list fund source (i.e. Local Fiscal Recovery Fund)	Amount:	Brief Description: (Construction, Administration Expenses, or Other)	How is this expense directly related to the proposed VATI project? If more space is needed, please describe in detail below the table with numbered references in the cells below.		
Northampton County	50% County Government; 50% Community Match	\$270,000	The fund was used to build five miles of fiber in the Vaucluse Shores community	The expense is related to the proposed project area because it was invested in an area that was underserved but left out because it was considered a federally funded area. The ESVBA had the intention of including Vaucluse Shores in the 2022 VATI application but could not do so because of restrictions. As the provider no longer claims protected status, the area has become eligible for VATI funding. However, it should be noted the expense occurred after December 2021 which per the VATI guidelines may be disqualifying. The ESVBA believes the area could benefit from exemption from the rules as it intended to build the area in 2022 but was presented to do so. In addition,		

				this community is pushing a quick finish of the construction.
Northampton County	100% County Government;	\$100,812	The funds were used to build the following areas: Yarmouth, Kelly Cove, and Saltworks 2	The expense was invested in an eligible area lacking the requirement speed. It was expended after June 2,2021.
Accomack			The funds were used	The expense was invested in eligible areas lacking
County	100% County Government;	\$158,828	to build the following areas: Seaside Circle, Dix Farm, Bloxom Rd Ext, Wisharts Point, Bogues Bay, and McComas Hotspot	the requirement speed. It was expended after June 2,2021.

Derivation of Cost (Project Budget)- FY2023 VATI

PRODUCT	TOTAL	VATI	NON-VATI	SOURCE OF ESTIMATE	DATE
OSP construction labor	\$3,914,028	\$3,914,028	\$0	Internal Engineering	8/23/2022
Fiber optics	\$2,552,623	\$1,730,183	\$822,441	Internal Engineering	8/23/2022
OSP hardware	\$2,042,102	\$0	\$2,042,102	Internal Engineering	8/23/2022
OSP passives	\$1,394	\$1,394	\$0	Internal Engineering	8/23/2022
Make ready	\$447,829	\$447,829	\$0	Internal Engineering	8/23/2022
OSP field engineering	\$1,053,764	\$1,008,192	\$45,571	Internal Engineering	8/23/2022
Design, engineering, permit,& project management	\$278,800	\$278,800	\$0	Internal Engineering	8/23/2022
Headend electronics	\$297,169	\$297,169	\$0	Internal Engineering	8/23/2022
Contingency	\$2,117,542	\$2,117,542	\$0	Internal Engineering	8/23/2022
TOTAL	\$12,705,251	\$9,795,137	\$ 2,910,114		

Note: The special construction passings are NOT budgeted into the proposed budget. These passings will be covered by the Line

Extension Customer Assistance Program (LECAP).

FOIA EXEMPTION-VATI FY23

The Eastern Shore of Virginia Broadband Authority (ESVBA) has provided materials to the Department of Housing and Community Development (DHCD) to meet the requirement for Attachment 13-Documentation of Supporting Cost Estimates.

The ESVBA requested an FOIA exemption. DHCD has granted exemption of the materials contained in Attachment 13.

Pursuant to 2.2-3705.6-32 of the Code of Virginia, the materials in Attachment 13-Documentation of Supporting Cost Estimates are excluded from the ESVBA public facing application.

4206 GREENBRIAR RD. EASTVILLE, VA 23347

August 8, 2022

Sen. Lynnwood Lewis P.O. Box 760 Accomack, VA 23301

Dear Sen. Lewis,

I am writing regarding our telecommunications infrastructure here in our area of the Eastern Shore, a micro community known as Greenbriar Farm.

As per the USDA mapping for the **USDA's Telecommunications Infrastructure Loan Program,** we were wrongly **EXCLUDED** from the 2022 VATI Grant. We received no benefit or coverage from that program. The loan was apparently granted to the "Declarations Network Group," an entity we have never heard of. For some reason, when they implemented the program they left us out.

Our present terrestrial internet access is Verizon DSL. In best case scenarios, we download at a speed of 3 mb/second and upload at 1 mb/second. This very basic, very slow service costs approximately \$100/month. And, we have been informed that Verizon plans to phase out this service, and we will be left with no internet at that time.

Greenbriar Farm has been quoted a price for broadband access by ESVBA of \$50,550.00 to be shared by the 6 residences in our community. That price is far outside of what we are able to pay, and since we believe we were skipped in the Universal Coverage through the Infrastructure Loan Program, we are asking you to help in correcting the error and include our community in the 2023 VATI Grant.

We know that time is of the essence and the deadline to apply for this grant is August 25, 2022. So, please consider our request quickly.

I would greatly appreciate a response from you regarding this matter. You can send your response to me at my mailing address which is:

Elizabeth P. Broyles 1300 N. Bay Shore Dr. Virginia Beach, VA 23451

Thank you for your consideration in this matter.

Warm Regards,

Elizabeth P. Broyler

Greenbriar Farm Resident

Senator Lynwood Lewis Address: PO Box 760 Accomac, VA 23301

Dear Senator Lewis,

I am writing to make you aware of an issue regarding broadband access in my I am writing to make, and ask your help in solving the problem. Our community was deemed ineligible to community and ask your field community and ask your field ineligible receive any benefit from the 2022 VATI Grant moneys to assist with the extreme \$50,550.00 receive any benefit from the extreme \$50,550.00 cost quoted by the cost to provide broadband Authority would have to be shared between 6 present households. Eastern Shore Broadband Addition was that our community was in an area (see attached maps) The reason given for the exclusion of the exclusion of the reason given for the exclusion of the exclusion o that had already received by "Declaration Network Group". I'm not sure but if this is the parent Infrastructure Loan But if this is the parent company to Nubeam we received no benefit from said program we do not have any Nubeam coverage.

Greenbriar Farm, our micro community, presently have no terrestrial options. We have a few legacy DSL serviced households and Verizon is in process of phasing them out. The present terrestrial service, if working have maximum speeds of 3Mbs/1Mbs.

Please help correct this "Universal Coverage" error and include Greenbriar Farm in the 2023 VATI Grant. Thank You for all of your work on our behalf. We are looking forward to your response.

Best Regards, Michael and Suzanne Noseworthy **4282 Greenbriar Court** Eastville, VA 23347-1261 noseworthy@aol.com



Kouliga Koala < kkoala@esvba.com>

Fwd: Broadband Internet

2 messages

Kyle Bundick <kbundick@esvba.com>

Wed, Aug 24, 2022 at 7:10 PM

To: Robert Bridgham <rbridgham@esvba.com>, Kouliga Koala <kkoala@esvba.com>

Below is an email from an accomack county teacher and his wife who are in vati 23 area that is desperate for our internet.

------ Forwarded message ------

From: Chad McGregor <chad.mcgregor@accomack.k12.va.us>

Date: Wed, Aug 24, 2022, 6:33 PM Subject: Broadband Internet

To: kbundick@esvba.com <kbundick@esvba.com>

My family is interested in getting broadband at our address: 24200 Folly Farm Rd. Accomac, VA 23301. We are not on a public road, therefore our internet options are very limited and inhibit us from having a reliable and consistent connection. Thank you!

Chad & Miranda McGregor

This is a staff email account managed by Accomack County Public Schools. This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.

Kouliga Koala < kkoala@esvba.com>

Thu, Aug 25, 2022 at 12:06 PM

To: Kyle Bundick <kbundick@esvba.com> Cc: Robert Bridgham <rbridgham@esvba.com>

Thank you, Kyle. [Quoted text hidden]

Kouliga Koala, PhD

Business Development Manager, ESVBA

Certified Public-Private Partnerships Professional, Foundation

Form 477 Filing Summary

FRN: 0019703131 **Data as of:** Jun 30, 2022 Operations: Non-ILEC

Submission Status: Original - Submitted

Last Updated:Jul 26, 2022 12:22

Filer Identification

Section	Field	Response
Filer Information	Company Name	Eastern Shore of Virginia Broadband Authority
	Holding Company Name	Eastern Shore of Virginia Broadband Authority
	Filing Type	Non-ILEC
	SAC ID	819002
	499 ID	828203
Data Contact Information	Data Contact Name	Robert Bridgham
	Data Contact Phone Number	(757) 414-0304
	Data Contact E-mail	rbridgham@esvba.com
Emergency Operations Contact Information	Emergency Operations Name	Robert Bridgham
	Emergency Operations Phone Number	(757) 414-0304
	Emergency Operations E-mail	rbridgham@esvba.com
Certifying Official Contact Information	Certifying Official Name	Robert Bridgham
	Certifying Official Phone Number	(757) 414-0304
	Certifying Official E-mail	rbridgham@esvba.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	6.30.2022 final deployment.csv	Jul 26, 2022 12:18 PM	2,071
Fixed Broadband Subscription	6.30.2022 final subscription.csv	Jul 26, 2022 12:19 PM	18

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Eastern Shore of Virginia Broadband Authority	Optical Carrier/Fiber to the End User	2,071
Total			2,071

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

			Subscriptions			
State	Technology	Census Tracts	Consumer	Business/Govt.	Total	
Virginia	Optical Carrier/Fiber to the End User	18	2,611	286	2,897	
Total		18	2,611	286	2,897	

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
20,000.000	20,000.000	2,611	286	2,897
Total		2,611	286	2,897

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	20,000.000	20,000.000	2,611	286	2,897
Total			2,611	286	2,897

Reminder: Use 2010 Census geographies for data as of June 30, 2021 and before. Use 2020 Census geographies for data as of December 31, 2021 and after.

For help or assistance, please contact (877) 480-3201 or (717) 338-2834 (TTY) or you may submit an online e-support ticket.

Federal Communications Commission 45 L St NE, Washington, DC 20002 Phone: 1-888-225-5322

TTY: 1-888-835-5322

Videophone: 1-844-432-2275

Fax: 1-866-418-0232

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Wireless

Wireline

Offices

Form 477 Filing Summary

FRN: 0019703131 Data as of: Dec 31, 2021 Operations: Non-ILEC

Submission Status: Original - Submitted

Last Updated: Feb 2, 2022 05:11

Filer Identification

Section	Field	Response
Filer Information	Company Name	Eastern Shore of Virginia Broadband Authority
	Holding Company Name	Eastern Shore of Virginia Broadband Authority
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	828203
Data Contact Information	Data Contact Name	Robert Bridgham
	Data Contact Phone Number	(757) 414-0304
	Data Contact E-mail	rbridgham@esvba.com
Emergency Operations Contact Information	Emergency Operations Name	Robert Bridgham
	Emergency Operations Phone Number	(518) 858-7242
	Emergency Operations E-mail	rbridgham@esvba.com
Certifying Official Contact Information	Certifying Official Name	Robert Bridgham
	Certifying Official Phone Number	(757) 414-0304
	Certifying Official E-mail	rbridgham@esvba.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Final Deployment December 2021.csv	Feb 2, 2022 05:00 PM	2,001
Fixed Broadband Subscription	Final Subscription December 2021.csv	Feb 2, 2022 05:08 PM	18

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Eastern Shore of Virginia Broadband Authority	Optical Carrier/Fiber to the End User	2,001
Total			2,001

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

			Subscriptions		
State	Technology	Census Tracts	Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	18	2,216	285	2,501
Total		18	2,216	285	2,501

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
20,000.000	20,000.000	2,216	285	2,501
Total		2,216	285	2,501

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	20,000.000	20,000.000	2,216	285	2,501
Total			2,216	285	2,501

Reminder: Use 2010 Census geographies for data as of June 30, 2021 and before. Use 2020 Census geographies for data as of December 31, 2021 and after.

For help or assistance, please contact (877) 480-3201 or (717) 338-2834 (TTY) or you may submit an online e-support ticket.

Federal Communications Commission 45 L St NE, Washington, DC 20002 Phone: 1-888-225-5322

TTY: 1-888-835-5322

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Form 477 Filing Summary

FRN: 0019703131

Data as of: Jun 30, 2021 Operations: Non-ILEC **Submission Status:** Original - Submitted

Last Updated:Jul 29, 2021 04:38

Filer Identification

Section	Field	Response
Filer Information	Company Name	Eastern Shore of Virginia Broadband Authority
	Holding Company Name	Eastern Shore of Virginia Broadband Authority
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	828203
Data Contact Information	Data Contact Name	Robert Bridgham
	Data Contact Phone Number	(757) 414-0304
	Data Contact E-mail	rbridgham@esvba.com
Emergency Operations Contact Information	Emergency Operations Name	Robert Bridgham
	Emergency Operations Phone Number	(757) 414-0304
	Emergency Operations E-mail	rbridgham@esvba.com
Certifying Official Contact Information	Certifying Official Name	Robert Bridgham
	Certifying Official Phone Number	(757) 414-0304
	Certifying Official E-mail	rbridgham@esvba.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Final Deployment June 2021.csv	Jul 29, 2021 04:33 PM	3,467
Fixed Broadband Subscription	Subscription final June2021.csv	Jul 29, 2021 04:32 PM	15

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Eastern Shore of Virginia Broadband Authority	Optical Carrier/Fiber to the End User	3,467

State	DBA Name	Technology	Blocks
Total			3,467

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

			Subscriptions		
State	Technology	Census Tracts	Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	15	1,752	284	2,036
Total		15	1,752	284	2,036

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
10,000.000	10,000.000	1,752	284	2,036
Total		1,752	284	2,036

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	10,000.000	10,000.000	1,752	284	2,036
Total			1,752	284	2,036

Reminder: You must continue to use Census 2010 geographic codes in FCC Form 477.

For help or assistance, please contact (877) 480-3201 or (717) 338-2834 (TTY) or you may submit an online e-support ticket.

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