

# ENVIRONMENTAL REVIEW RECORD

Project: Lower Guest River Sewer Line  
Extension

Client: Wise County Public Service  
Authority

Prepared For: Department of Housing &  
Community Development

Date Completed: 3/26/15

Prepared By: LENOWISCO  
Planning District Commission



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**ENVIRONMENTAL REVIEW RECORD**

**GRANT NUMBER:**

**PROJECT NAME: Lower Guest River Sewer Line Extension  
Wise County, Virginia**

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## 1.0 Environmental Review Record

### 1.1 ERR Part 1

#### Statutory Checklist for Compliance with 24 CFR §58.5 – NEPA Related Federal Laws and Authorities

(Must be completed for each individual addressed included under overall project description)

**Use this worksheet for projects that are Categorically Excluded Subject to 24 CFR §58.5 listed at 24 CFR §58.35(a) and for projects that require an Environmental Assessment.**

Project Name: Lower Guest River Sewer Line Extension

ERR FILE # \_\_\_\_\_

Definitions: A: The project is in compliance.

B: The project requires an additional compliance step or action.

Statute, Authority, Executive Order Cited at 24 CFR §58.5	A	B	COMPLIANCE FINDING	SOURCE DOCUMENTATION
1. 58.5(a) Historic Properties [36 CFR 800]	X		No historic properties affected. No adverse impact response from Native American Tribe.	Refer to email from VDHR in Section 6.6 and email from Cherokee Indian Tribe in Section 6.13.
2. 58.5(b)(1) Floodplain Management [24 CFR 55, Executive Order 11988]		X	The project is located within a floodplain.	The 8-step decision making process for Executive Order 11988 was followed and determined no alternative available, no above the ground structures will be built and no adverse affects to the waterway during construction. Refer to FEMA maps and research letter in Section 6.10.
3. 58.5(b)(2) Wetland Protection [24 CFR 55, Executive Order 11990]		X	The project will not adversely affect any palustrine wetland.	Refer to USFWS, USACE and DCR maps and correspondence in Section 6.
4. 58.5(c) Coastal Zone Management [Coastal Zone Management Act sections 307(c) & (d)]	X		The project is in compliance. There are no coastal zones in Wise County.	Refer to map of VA showing coastal area location relative to project area location in Section 6.3.

5. 58.5(d) Sole Source Aquifers [40 CFR 149]	X		The project will not affect any Sole Source Aquifers.	Refer to EPA map in Section 6.14.
6. 58.5(e) Endangered Species [50 CFR 402]	X		The project is not likely to adversely affect T/E species that may be within project area.	Refer to Section 6.8 for USFWS; Section 6.7 for VDCR; and Section 6.9 for VDGIF correspondences.
7. 58.5(f) Wild and Scenic Rivers [36 CFR 297]	X		The project will not affect any Wild/Scenic Rivers.	There are no nationally designated Wild/Scenic Rivers in Wise County per National Park Service; The portion of Guest River that is designated Scenic River per DCR begins in Coeburn approximately 9 miles away. Maps/lists are in Section 6.15.
8. 58.5(g) Air Quality [40 CFR parts 6, 51,61, 93]	X		The project is in compliance; it will not adversely affect air quality	Refer to Section 6.1 for VDEQ response concerning air quality; project is not in a non-attainment area.
9. 58.5(h) Farmland Protection [7 CFR 658]	X		The project will not adversely impact farmland, therefore it is in compliance.	Refer to completed CPA-106 from the NRCS located in Section 6.5.
10. 58.5(i)(1) Noise Control and Abatement [24 CFR 51B]	X		The project is in compliance. The project does not involve a noise sensitive use such as a residential structure, school, hospital, nursing home, library, etc.	Refer to project abstract in Section 7.3 and Preliminary Engineering Report in Section 7.4.
11. 58.5 (i) (1) Explosive and Flammable Operations [24 CFR 51C]	X		The project is in compliance. The project does not involve development, construction, rehabilitation or land use conversion of a property intended for residential, institutional, recreational, commercial, or industrial use.	Refer to project abstract in Section 7.3 and Preliminary Engineering Report in Section 7.4.
12. 58.5(i)(1) Airport Hazards	X		The project is in	Refer to map in Section 6.11.

(Runway Clear Zones and Clear Zones/Accident Potential Zones) [24 CFR 51D]			compliance. The project is not located within specified distances from airports (civilian or military).	Nearest airport is 29,000' from project area.
13. 58.5(i)(2)(i-iv) Contamination and Toxic Substances [24 CFR 58.5(i)(2)]	X		The project is in compliance. The project is not located within the search distances of any of the types of environmental contamination sources.	Refer to Section 6.16 for EPA documentation.
14. 58.5(j) Environmental Justice [Executive Order 12898]	X		The project is not designed to serve a predominantly minority or low-income neighborhood; there would be no adverse environmental impact caused by the proposed action.	Refer to Section 6.12 for demographic and environmental justice data.

## DETERMINATION:

Box "A" has been checked for all authorities. For Categorically Excluded actions pursuant to §58.35(a) [Does not apply to EA or EIS level of review which can never convert to Exempt], the project can convert to Exempt, per §58.34(a) (12), since the project does not require any compliance measures (e.g., consultation, mitigation, permit or approval) with respect to any law or authority cited at §58.5. The project is now made Exempt and a contract may be issued by DHCD; OR

Box "B" has been checked for one or more authority. For Categorically Excluded actions pursuant to §58.35(a), the project cannot convert to Exempt since one or more authority requires compliance, including but not limited to consultation with or approval from an oversight agency, performance of a study or analysis, completion of remediation or mitigation measure, or obtaining of license or permit. Complete pertinent compliance requirement(s), publish NOI/RROF, request release of funds (HUD-7105.15), and wait for DHCD to issue a formal contract before committing funds; OR

This project is not a Categorically Excluded action pursuant to §58.35(a), or may result in a significant environmental impact to the environment, and requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

MITIGATION MEASURES AND CONDITIONS FOR PROJECT APPROVAL: (If Box B is checked, provide details regarding further consultation, mitigation, permit requirements or approvals required to be incorporated into public notices and project requirements such as contracts, grants, loan conditions, etc. as described in the Statutory Worksheet). Ensure required measures are included in 7015.15 Project Description Section.

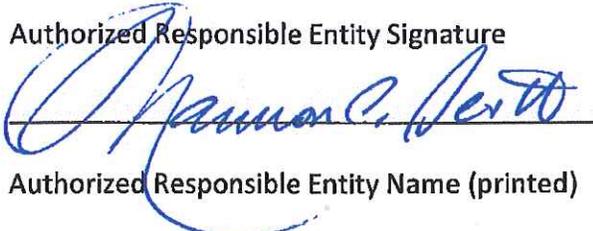
Mitigation measures listed within this document include, but are not limited to: Best Management Practices during construction, utilizing water proof manholes at connection points to interceptor in Floodplain, E & S Plans, JPA Approval, VDH Waterworks permit, Early and Final Floodplain Notices, 8-Step Decision Making Process for Executive Order 11988, Land Use Permit & Road Crossing Permit, OSHA Regulations, and Code of Virginia Regulations.

PREPARER: Jimmy Adkins

Preparer's Signature  Date: May 1<sup>st</sup>, 2015

Preparer's Name (printed) Jimmy Adkins Title (printed): Regional Planner

AUTHORIZED RESPONSIBLE ENTITY OFFICIAL: Shannon Scott, County Administrator

Authorized Responsible Entity Signature  Date May 1<sup>st</sup>, 2015

Authorized Responsible Entity Name (printed) Title (printed)

Shannon Scott County Administrator

**Worksheet for Preparing 24 CFR §58.5 Statutory Checklist**  
[Attach to Statutory Checklist]

1. *§58.5(a) Historical Properties [36 CFR Part 800]*

Historic Properties

***Does the project include the type of activity that would have the potential to affect historic properties such as acquisition, demolition, disposition, ground disturbance, new construction or rehabilitation?***

Yes  No

If Yes, continue.

If No, the project is not the type of activity that has the potential to affect historic properties. Compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

***Do the RE and State Historic Preservation Office (SHPO) have a Programmatic Agreement (PA) that does not require consultation for this type of activity?***

Yes  No

If Yes, document compliance with the PA. Compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

If No, continue.

***Is the project located within or directly adjacent to a historic district?***

Yes  No

***Is the structure or surrounding structures listed on or eligible for listing on the National Register of Historic Places (e.g. greater than 45 years old)?***

Yes  No

***Were any properties of historical, architectural, religious or cultural significance identified in the project's Area of Potential Effect (APE)?***

Yes  No

If Yes to any of the questions above, continue.

If No to all of the questions above, the project will not affect historic properties. A concurrence from the SHPO that "no historic properties will be affected" is required. Compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

***Have you consulted with the SHPO to determine whether the project will have "No Adverse Effect on Historic Properties?"***

Yes  No

If Yes, continue.

If No, consultation with the SHPO is required.

***Does the SHPO concurrence letter received for this project require mitigation or have conditions?***

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

***Have the SHPO and RE agreed on required mitigation or conditions?***

Yes  No

If Yes, include mitigation requirements and/or conditions from the SHPO in the mitigation section of the Statutory Checklist. Mark box "B" on the Statutory Checklist for this authority.

If No, continue with consultation until resolved.

Historic properties of religious and cultural significance to tribes and Native Hawaiian organizations

***Does the project include the types of activities such as those listed below that have the potential to affect historic properties of religious and cultural significance to tribes?***

- Ground disturbance (digging);
- New construction in undeveloped natural areas;
- Incongruent visual changes – impairment of the vista or viewshed from an observation point in the natural landscape;
- Incongruent audible changes – increase in noise levels above an acceptable standard in areas known for their quiet, contemplative experience;
- Incongruent atmospheric changes – introduction of lights that create skyglow in an area with a dark night sky;
- Work on a building with significant tribal association;
- Transfer, lease or sale of a historic property of religious and cultural significance.

Yes  No

If Yes, continue.

If No, tribal consultation is not required.

***Does HUD's Tribal Directory Assessment Tool indicate that tribes have an interest in the location where the project is sited? (<http://egis.hud.gov/tadat/Tribal.aspx>)***

Yes  No

If Yes, contact federally recognized tribe(s) and invite consultation.

If No, document the result in the ERR. Tribal consultation is not required.

***Did the tribe(s) respond that they want to be a consulting party?***

Yes  No

If Yes, continue.

If No, (no response within 30 days or responded that they do not wish to consult), document response or lack of response in ERR. Further consultation is not required.

***After consulting with the tribe(s) and discussing the project, were any properties of religious or cultural significance to the tribe(s) identified in the project's APE?***

Yes  No

If Yes, continue.

If No, notify tribe(s) and other consulting parties of your finding of "No Historic Properties Affected." Tribe(s) has 30 days to object to a finding.

***After consulting with the tribe(s), will the project have an adverse effect on properties of religious or cultural significance to the tribe(s)?***

Yes  No

If Yes, consult with tribe(s) and other consulting parties to resolve adverse effects, including considering alternatives and mitigation measures that would avoid or minimize adverse effects.

If No, notify tribe(s) and other consulting parties of your finding of "No Adverse Effects." Tribe(s) has 30 days to object to a finding.

***Were any objections to a finding received from a consulting tribe?***

Yes  No

If Yes, continue with consultation until resolved.

If No, consultation is complete.

Comments: VDHR stated in a letter dated September 10, 2014, that "No Historic Properties Affected" for this project, therefore it is in compliance with Section 106. The Eastern Band of Cherokee Indians in an email dated September 18, 2014 that "the EBCI THPO does not believe that cultural resources important to the Cherokee people should be adversely impacted..."

Cite and attach source documentation: (Correspondence with SHPO/THPO. How determination of "no potential to cause effects" to historic properties was made.)

Information Resources:

National Register of Historic Places:

<http://nrhp.focus.nps.gov/natreghome.do?searchtype=natreghome>

National Conference of State Historic Preservation Officers:

<http://ncshpo.org/>

Map of Currently Recognized THPO's:

<http://www.nathpo.org/map.html>

Section 106 Agreements Database:

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/section106](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/section106)

2. *§58.5(b) (1) Floodplain Management [24 CFR Part 55]*

***Does the project involved minor repairs or improvements on one to four family properties that do not meet the threshold for “substantial improvement” of §55.2(b)(8), i.e., the cost does not equal or exceed 50% of the market value of the structure before improvement or repair started, before damage occurred.***

Yes  No

If Yes, compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

If No, continue.

***Is the project located within (or have an impact on) a 100 year floodplain (Zone A) or Coastal High Hazard (Zone V) identified by FEMA maps?***

Yes  No

***Does the project involve a “critical action,” per §55.2(b) (2) (i), located within a 500 year floodplain (Zone B) identified by FEMA maps?***

Yes  No

If Yes to (b) or (c), follow HUD’s Floodplain Management Regulations 8-Step decision-making process of §55.20 to comply with 24 CFR Part 55. The 8-Step decision-making process must show that there are no practicable alternatives to locating the project in the floodplain, and if there are no alternatives, define measures to mitigate impacts to floodplains and location of the project in the floodplain. Completion of the 8-Step decision-making process must be completed before the completion of an EA per §55.10(a). See Attachment 2 for an example of the 8-Step decision-making process. The 8-step decision-making process must be included in the ERR and summarized in Part 55 and Part 58 public notices, as well as NOI/RROF and FONSI notices. Mark box “B” on the Statutory Checklist for this authority.

If No to (b) and (c), compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

***Does the project involve a critical action in a coastal high hazard area or a floodway?***

Yes  No

If, Yes, HUD assistance may not be used for this project.

**Does the project involve a non-critical action which is not a functionally dependent use that is located in a floodway?**

Yes  No

If Yes, HUD assistance may not be used for this project

**Does the project involve a non-critical action which is not a functionally dependent use that is located in a coastal high hazard area?**

Yes  No

If Yes, project is allowed *only* if it is designed for a location in a coastal high hazard area *and* is processed under Section 55.20. Design requirements must be noted in Statutory Checklist and 8-Step decision-making process.

Comments: The proposed project does occur in a floodplain. The 8-step decision making process for Executive Order 11988 was followed. The main sewer line interceptor follows the path of the Guest River, with some portions in the floodplain. The project will consist of connecting three lines with water sealed man holes to service, meter and connect the lines. The public has been made aware of the floodplain during the development of this and completion several water and wastewater projects in the same APE. Therefore, it is in compliance with Executive Order 11988.

Cite and attach source documentation: (FEMA flood map used to make this finding with the project location marked on the map. Include the community name, map panel number and date of map. As applicable, §55.20 8-Step decision-making process analysis. If FEMA has not published the appropriate flood map, the RE must make a finding based on best available data.)

For more information see:

FEMA Map Service Center:

<http://www.store.msc.fema.gov>

3. *§58.5(b) (2) Wetlands Protection (E.O. 11990)*

**Does the project involve new construction, land use conversion, major rehabilitation, or substantial improvements?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**Is the project within or adjacent to or will it affect wetlands, marshes, wet meadows, mud flats or natural ponds per field observation and maps issued by the US Fish & Wildlife Service (USFWS) or U.S. Army Corps of Engineers (Corps)?**

Yes  No

**Are there drainage ways, streams, rivers, or coastlines on or near the site?**

Yes  No

**Are there ponds, marshes, bogs, swamps or other wetlands on or near the site?**

Yes  No

**Does the project involve new construction and/or filling located within a wetland designated on a USFWS National Wetlands Inventory map?**

Yes  No

If Yes to any of b – e above, comply with wetlands decision-making process of 24 CFR §55.20. (Use proposed Part 55 published in the Federal Register January 2012 for wetland procedures). Continue.

If No to all of b - e above, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**Will the project require a permit from the Corps under Section 404 of the Clean Water Act and/or will USFWS require wetland mitigation?**

Yes  No

If Yes, ensure this is noted in Part 55 and Part 58 public notices. Include all mitigation measures and permit requirements in the mitigation section of the Statutory Checklist. Compliance with this section is complete. Mark box "B" on the Statutory Checklist for this authority.

If No, compliance with this section is complete. Mark box "B" on the Statutory Checklist for this authority.

Comments: The project will not impact wetlands. Refer to to attached USFWS Wetland map. Strict adherence to E&S control will be implemented. The project is in compliance with Executive Order 11990.

Cite and attach source documentation: (NWI Map with project location noted in reference to wetlands. §55.20 8/5-Step decision-making process analysis for new construction and/or filling, and any permits received.)

For more information see:

USFWS National Wetlands Inventory – Geospatial Wetlands Digital Data:

<http://www.FWS.gov/wetlands/data/index.html>

Recognizing wetlands:

[http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/techbio/rw\\_bro.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/techbio/rw_bro.pdf)

4. *§58.5(c) Coastal Zone Management [Coastal Zone Management Act of 1972, Sections 307(c) & (d)]*

**a. Does the project involve new construction, land use conversion, major rehabilitation, or substantial improvements?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**b. Is the project located within a Coastal Zone as defined in your state Coastal Zone Management (CZM) Plan?**

Yes  No

If Yes, the State CZM Agency must make a finding that the project is consistent with the approved State CZM Plan. Mark box "B" on the Statutory Checklist for this authority.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

Comments: There are no coastal resources located Wise County, VA. The project is compliance with the Coastal Zone Management Act. Refer to attached document for map of coastal zone in relation to the project site.

Cite and attach source documentation: (Map showing project in relation to the nearest Coastal Zone Management area. If applicable, State's findings.)

For additional information see:

States and Territories Working with NOAA on Ocean and Coastal Zone Management:

<http://coastalmanagement.noaa.gov/mystate/welcome.html>

5. *§58.5(d). Sole Source Aquifers [40 CFR Part 149]*

**a. Does the project involve new construction or land use conversion?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**b. Is the project located within a U.S. Environmental Protection Agency (EPA)-designated sole source aquifer watershed area per EPA Ground Water Office?**

Yes  No

If Yes, consult with the Water Management Division of EPA to design mitigation measures to avoid contaminating the aquifer and implement appropriate mitigation measures. Include mitigation measures in mitigation section of Statutory Checklist. Mark box “B” on the Statutory Checklist for this authority.

If No, compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

Comments: The project is not located within the boundaries of a sole source aquifer (refer to attached EPA map). The project is in compliance with Sole Source Aquifer requirements.

Cite and attach source documentation: (Map showing project in relation to the nearest Sole Source Aquifer.)

For more information see:

Region 6 Sole Source Aquifers: <http://www.epa.gov/region6/water/swp/ssa/maps.htm>

6. *§58.5(e) Endangered Species [50 CFR Part 402]*

**a. Does the project involve the type of activities that are likely to have “no effect on endangered species, such as:**

- Demolition and construction or placement of a single family residence within a developed lot, and/or any loans or mortgages affiliated with such construction, demolition or placement provided they are not within 750 feet of habitat for federally-listed species or 300 feet of mapped wetlands, wildlife refuges, fish hatcheries, wildlife management areas, or related significant fish and wildlife resources?  
 Yes  No
- Rehabilitation or renovation activities associated with existing structures (*e.g.*, houses, buildings), including additional structures attached to or associated with the primary structure, and/or any loans or mortgages affiliated with such rehabilitation or renovation?  
 Yes  No
- Acquisition of existing structures (*e.g.*, houses, buildings), including additional structures attached to or associated with the primary structure, and/or any loans or mortgages affiliated with such acquisition.  
 Yes  No
- Purchase and placement of playground equipment within existing parks?  
 Yes  No
- Resurfacing, repairing, or maintaining existing streets, sidewalks, curbs, trails, parking lots and/or any other existing paved surfaces where additional ground disturbance, outside of the existing surface is not necessary?  
 Yes  No

If Yes to any of the above, the project is likely to have “No Effect” on federally protected species and critical habitat. Informal consultation with the US Fish and Wildlife Service or the National Marine Fisheries Service (Services) is not necessary. The RE is required to make this finding and include a memorandum to the file supporting the finding (note that this finding should be made by the RE, and not by third party contractors and non-RE grant recipients). Compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

If No to all of the above, continue.

**b. Has the US Fish and Wildlife Service or the National Marine Fisheries Services identified listed species or designated critical habitat in the county where the project is located?**

Yes  No

If Yes, continue.

If No, the project is likely to have “No Effect” on federally protected species and critical habitat. Informal consultation with the Services is not necessary. The RE is required to make this finding and include a memorandum to the file supporting the finding (note that this finding should be made by the RE, and not by third party contractors). Compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

**c. Is the project located within 750 feet of habitat for federally-listed species or 300 feet of mapped wetlands, wildlife refuges, fish hatcheries, wildlife management areas, or related significant fish and wildlife resources?**

Yes  No

If Yes, conduct special studies by a qualified professional to determine whether the project may affect the species or habitat to support a May Effect finding.

If No, continue below

**d. Does the project constitute a major construction activity (a major Federal action that modifies the physical environment and would normally require the preparation of an EIS)?**

Yes  No

If Yes, formal consultation with the Services is required in accordance with procedural regulations contained in 50 CFR Part 402. Mark box “B” on the Statutory Checklist for this authority.

If No, continue.

- e. If federally protected species or critical habitat have been identified within the project area, has a special study been conducted by a qualified professional to determine the effects of the project on each species and critical habitat?**

Yes  No

If Yes, continue.

If No, a special study should be conducted to determine the effects of the project on federally protected species and critical habitat. Continue.

- f. Has the RE made a determination based on professional findings that the project is “Not Likely to Adversely Affect” any federally protected (listed or proposed) threatened or endangered species (i.e., plants or animals, fish, or invertebrates), nor adversely modify critical habitats?**

Yes  No

If Yes, Service’s concurrence with findings is required. Mark box “B” on the Statutory Checklist for this authority.

If No, continue.

- g. Has the RE determined based on professional findings that the project “May Affect” federally protected (listed or proposed) threatened or endangered species (i.e., plants or animals, fish, or invertebrates), or adversely modify critical habitats?**

Yes  No

If Yes, formal consultation is required with the Services, in accordance with procedural regulations contained in 50 CFR Part 402, which mandates formal consultation in order to preserve the species. Mark box “B” on the Statutory Checklist for this authority.

If No, contact your FEO for assistance in determining impacts to federally protected species and critical habitat.

Comments: The project will have “no effect” on listed species as there is no suitable habitat for the listed T/E species from USFWS, VDCR, and VDGIF. In addition, there is no designated critical habitat or its buffer in the action area. The project is in compliance with the Endangered Species Act. Refer to USFWS self-certified letter as an output of their review process.

Cite and attach source documentation: (Memorandum to the file by the RE supporting the finding of “No Effect.” Concurrence memo from one or both of the Services for a finding of “Not Likely to Adversely Affect.” Biological Opinion from one or both of the Services for a finding of “May Affect.”)

For additional information see: (The Endangered Species Act of 1973 (16 U.S.C. 1531 *et seq.* as amended: particularly Section 7 (b) and (c). 50 CFR 402).

USFWS ESA Species Search:

<http://www.FWS.gov/endangered/species/index.html>

NMFS ESA Species Search:

<http://www.nmfs.noaa.gov/pr/species/esa/>

USFWS Critical Habitat Maps:

<http://crithab.FWS.gov/>

NMFS Critical Habitat Maps:

<http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm>

Endangered Species Consultation Handbook:

[http://www.nmfs.noaa.gov/pr/pdfs/laws/esa\\_section7\\_handbook.pdf](http://www.nmfs.noaa.gov/pr/pdfs/laws/esa_section7_handbook.pdf)

7. *§58.5(f) Wild and Scenic Rivers [36 CFR Part 297]*

**a. Does the project involve new construction, land use conversion, major rehabilitation, or substantial improvements?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**b. Is the project is located within one (1) mile of a designated Wild & Scenic River, or river being studied as a potential component of the Wild & Scenic River system or an inventory river?**

Yes  No

If Yes, determination from the National Park Service (NPS) must be obtained, with a finding that the project will not have a direct and adverse effect on the river nor invade or diminish values associated with such rivers. For NRI Rivers, consultation with NPS is recommended to identify and eliminate direct and adverse effects. Mark box "B" on the Statutory Checklist for this authority. If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

Comments: The proposed project is not within one mile of a designated Wild, Scenic, or Recreational River. Refer to attached PDF taken from [www.rivers.gov](http://www.rivers.gov) which states Virginia has no designated wild or scenic rivers.

Cite and attach source documentation: (Maps noting project location and showing proximity to protected rivers. Relevant determinations or results of consultation)

For further information see:

National Park Service:

Designated Rivers <http://www.rivers.gov/rivers/map.php>

Study Rivers <http://www.rivers.gov/rivers/study.php>

National River Inventory (NRI) listed rivers: <http://www.nps.gov/ncrc/programs/rtca/nri/>

8. §58.5(g) Air Quality [40 CFR Parts 6, 51, 61 and 93]

**a. Does the project involve demolition or renovation of buildings likely to contain asbestos containing materials?**

Yes  No

If Yes, ensure the project is in compliance with EPA's Asbestos regulations found at 40 CFR Part 61 (NESHAP) and all State and local regulations. Continue below.

If No, continue.

**b. Does the project require and environmental assessment or environmental impact statement?**

Yes  No

If Yes, continue.

If No, compliance with CAA State Implementation Plan factor is complete. Mark Box A on the Statutory checklist.

**c. Does the project involve five or more dwelling units, acquisition of undeveloped land, a change of land use, demolition, major rehabilitation, or new construction?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**d. Is the project located in a Non-Attainment area?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**e. Is the project consistent with the air quality State Implementation Plan (SIP)?**

Yes  No

If Yes, obtain letter of consistency showing that the project is consistent with the SIP. Compliance is complete. Mark box "B" on the Statutory Checklist for this authority.

If No, continue.

**f. Has EPA determined that the proposed activity is one that requires a permit under the SIP?**

Yes  No

If Yes, continue.

If No, compliance is complete. Mark box "B" on the Statutory Checklist for this authority.

**g. Will project exceed any of the de minimis emissions levels of all non-attainment and maintenance level pollutants or exceed the screening level established by the state or air quality management district?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "B" on the Statutory Checklist for this authority. Attach all documents used to make your determination (See Conformity determination thresholds at 40 CFR 93.153(b) Include engineering/construction assessments of emissions during construction and operating phases).

**h. Can project be brought into compliance through mitigation?**

Yes  No

If Yes, list mitigation measures required to achieve conformance with SIP in the mitigation section of the Statutory Checklist. Mark box "B" on the Statutory Checklist for this authority.

If No, Federal assistance may not be used at this location.

Comments: The proposed project is not located within a non-attainment area, nor is the demolition of any structures within the scope of the project. The project is in compliance with the Clean Air Act.

Cite and attach source documentation: (Letter of consistency with SIP, assessment of emissions, air permits received, mitigation measures taken, etc.)

For further information see:

The Green Book Nonattainment Areas for Criteria Pollutants:

<http://www.epa.gov/oar/oagps/greenbk/>

Region 6 Air State Implementation Plans:

<http://www.epa.gov/region6/6pd/air/pd-l/sip.htm>

9. §58.5(h) Farmlands Protection [7 CFR Part 658]

**a. Does the project involve acquisition of undeveloped land, conversion of undeveloped land, new construction or site clearance?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**b. Is project located in an area committed (zoned) to urban uses?**

Yes  No

If Yes, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

If No, continue.

**c. Does the project site include prime or unique farmland, or other farmland of statewide or local importance as identified by the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS) (formerly the Soil Conservation Service)?**

Yes  No

If Yes, request evaluation of land type from the NRCS using Form AD-1006, and consider the resulting rating in deciding whether to approve the proposal, as well as mitigation measures (including measures to prevent adverse effects on adjacent farmlands). Mark box "B" on the Statutory Checklist for this authority. Include mitigation measures in the mitigation section of the Statutory Checklist.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

Comments: The project corridor does not contain prime, unique statewide or local important farmland. The project is in compliance with Farmland Protection Policy Act of 1981. Refer to completed NRCS-CPA-106 Farmland Conversion Impact Rating from NRCS.

Cite and attach source documentation: (Zoning map with project location noted. Form AD-1006 from NRCS.)

For additional information see:

NRCS Soil Maps:

<http://websoilsurvey.nrcs.usda.gov/app/>

Form AD-1006 and instructions:

[http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1045394.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045394.pdf)

Farmland Protection Policy Act

[http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/alphabetical/fppa/?&cid=nr cs143\\_008275](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/alphabetical/fppa/?&cid=nr cs143_008275)

10. §58.5(i) (1) *Noise Abatement and Control [24 CFR Part 51B]*

**a. Does the project involve a noise sensitive use such as a residential structure, school, hospital, nursing home, library, etc.?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**b. Is the project located within:**

- 15 miles of a civilian or military airfield with more than 9,000 carrier operations annually;  
 Yes  No
- 1000 feet of a major highway or busy road;  
 Yes  No
- within 3000 feet of a railroad.  
 Yes  No

If Yes to any the above, complete a noise calculation assessment. Use adopted DNL contours if the noise source is an airport. Continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**c. Do noise calculations or airport noise contour maps indicate noise levels above 65dB (outside)?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**d. Do noise calculations or airport noise contour maps indicate noise levels above 75dB (outside)?**

Yes  No

If No, for projects in the normally unacceptable zone (65dB – 75dB), noise attenuation measures are strongly encouraged for rehabilitation and required for new construction to reduce noise levels to below 65dB (outside). Mark box “B” on the Statutory Checklist for this authority. List all attenuation measures in the mitigation section of the Statutory Checklist.

If Yes, HUD assistance for the construction of new noise sensitive uses is generally prohibited for projects with unacceptable noise exposure (>75dB). Noise attenuation measures are strongly encouraged for rehabilitation projects with unacceptable noise exposure to reduce noise levels to below 65dB (outside). Mark box “B” on the Statutory Checklist for this authority. List all attenuation measures in the mitigation section of the Statutory Checklist.

Comments: The proposed project includes no activities that would require further consultation under HUD’s noise regulation, either during or after construction, as the project does not involve a noise sensitive use such as a residential structure, school, hospital, etc.

For more information see:

HUD noise guidebook:

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/training/guidebooks/noise](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/training/guidebooks/noise)

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/review/noise](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/review/noise)

<http://www.hud.gov/offices/cpd/environment/dnlcalculator.cfm>

<http://www.hud.gov/offices/cpd/environment/mitigation.cfm>

<http://portal.hud.gov/hudstracat/noiseCalcEntry.jsp>

FAA:

[http://www.faa.gov/airports/planning\\_capacity/npias/reports/](http://www.faa.gov/airports/planning_capacity/npias/reports/)

11. *§58.5(i) (1) Explosive and Flammable Operations [24 CFR 51C]*

- a. Does the project involve development, construction, rehabilitation, modernization or land use conversion of a property intended for residential, institutional, recreational, commercial, or industrial use?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

- b. Was a field observation performed by a qualified professional which documents there are above ground storage tanks within line of site of the project?**

Yes  No

**c. Is the project site within 1 mile of current or planned stationary aboveground storage tanks of more than 100 gallon capacity, containing common liquid industrial fuels OR of any capacity, containing hazardous liquids or gases that are not liquid industrial fuels?**

Yes  No

**d. Are industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline or other storage tanks adjacent to or visible from the project site?**

Yes  No

If Yes to any of b – d above, use HUD Hazards Guide to calculate an Acceptable Separation Distance to comply with 24 CFR Part 51, Subpart C. Continue.

If No to all of b – d above, compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

**e. Is the project located at an Acceptable Separation Distance from any above-ground explosive or flammable fuels or chemicals containers as calculated above?**

Yes  No

If Yes, compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

If No, continue.

**f. Can mitigation measures, such as construction of a barrier of adequate size and strength, reduce the blast overpressure or thermal radiation hazard to protect the project (per 24 CFR §51.205)?**

Yes  No

If Yes, Mark box “B” on the Statutory Checklist for this authority. List all mitigation measures in the mitigation section of the Statutory Checklist.

If No, HUD assistance cannot be used for this project.

Comments: The project does not involve the development, construction, rehabilitation, modernization, or land use conversion of a property intended for residential, institutional, recreational, commercial, or industrial use. The project is in compliance with Explosive and Flammable Hazard requirements.

Cite and attach source documentation: (Maps with project location noted showing distance from explosives and flammable operations. ASD calculations/worksheet.)

For additional information see:

HUD Guidance on Sitting Projects near Explosive and Flammable Facilities:

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/review/explosive](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/review/explosive)

Acceptable Separation Distance Guidebook:

<http://portal.hud.gov/hudportal/documents/huddoc?id=HUD-Guidebook.pdf>

Barrier Design Guidance for HUD Assisted Project Near Hazardous Facilities:

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/training/guidebooks/hazfacilities](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/training/guidebooks/hazfacilities)

12. §58.5(i) (1) Airport Hazards [24 CFR 51D]

- a. Will the project use HUD assistance, subsidy or insurance for construction; land development; community development or redevelopment; substantial modernization and rehabilitation which prolongs the physical or economic life of existing facilities; provide facilities and services which make land available for construction; change the use of a facility; increase the unit density or number of people at the site?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

- b. Is the property within 2,500 feet of a civilian airport, the Runway Clear Zone (RCZ)?**

Yes  No

- c. Is the project is within 15,000 feet of a military airfield, the Clear Zone (CZ) or Accident Potential Zone (APZ)?**

Yes  No

If Yes to either of the above questions, request a written finding from the airport operator stating whether or not the project is located in a RCZ, CZ or APZ.

Continue.

If No to both of the above questions, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

- d. If the project is within 15,000 feet of a military airfield or within 2,500 feet of a civilian airport, did your written confirmation from the airport operator confirm that the project is located in a RCZ, CZ or APZ?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

- e. If the project is located in a military airfield APZ, is the project consistent with the Land Use Compatibility Guidelines for Accident Potential Zones (32 CFR Part 256, DOD Instruction 4165.57).**

Yes  No

If Yes, attach copy of written assurance from airport operator. Mark box "B" on the Statutory Checklist for this authority.

If No, HUD funds may not be used for this project.

- f. If the project is in a RCZ/CZ will the project be frequently used or occupied by people?**

Yes  No

If Yes, HUD funds may not be used for this project.

If No, continue.

- g. If the project will not frequently be used by people, has the airport operator provided a written statement that there are no plans to purchase the land involved with such facilities as part of an RCZ/CZ acquisition program?**

Yes  No

If Yes, attach copy of written assurance from airport operator. Mark box "B" on the Statutory Checklist for this authority.

If No, HUD funds may not be used for this project.

Comments: The project is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements. The nearest airport (civilian) is over 29,000 ft or 5 miles away (refer to attached map).

Cite and attach source documentation: (Map with project location noted showing the distance from civilian airports and/or military airfields. Written confirmation from airport operating stating

whether or not project is located in a RCZ, CZ or APZ. Written assurance from airport operator on purchase of property.)

For further information see:

Airport Information: <http://www.airnav.com/airports/>

HUD Airport Hazards Q&A:

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/revie w/qa/airport](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/revie w/qa/airport)

13. §58.5(i) (2) Contamination and Toxic Substances

- a. Is the property located within the search distances of any of the types of environmental contamination sources?

Standard Environmental Record Sources	Approximate Minimum Search Distance (mi)	Yes	No
Federal National Priorities List (NPL)	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal Delisted NPL Site List	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) List	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal CERCLIS No Further Remedial Action Planned (NFRAP) Site List	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal RCRA Correction Action (CORRACTS) Facilities List	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal RCRA Non-CORRACTS Treatment, Storage and Disposal (TSD) Facilities List	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal RCRA Generators List	Property/Adjoining Properties	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal Institutional Control/Engineering Control Registries	Property Only	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Federal Emergency Response and Notification System (ERNS) List	Property Only	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State- and Tribal-Equivalent NPL	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State- and Tribal-Equivalent CERCLIS	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State and Tribal Landfill and/or Solid Waste Disposal Site Lists	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State and Tribal Leaking Storage Tank Lists	0.5		

Standard Environmental Record Sources	Approximate Minimum Search Distance (mi)	Yes	No
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
State and Tribal Registered Storage Tank Lists	Property/Adjoining Properties	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State and Tribal Institutional Control/Engineering Control Registries	Property Only	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State and Tribal Voluntary Cleanup Sites	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State and Trial Brownfield Sites	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**b. Did a visual inspection of the site show the following?**

	Yes	No
Distressed vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vent or Fill Pipes	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Storage Oil Tanks or Questionable Containers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pits, Ponds or Lagoons	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Stained Soil or Pavement (other than water stains)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pungent, Foul or Noxious Odors	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dumped Material or Soil, Mounds of Dirt, Rubble, Fill, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**c. Has the property ever been used for any of the following types of uses?**

	Yes	No		Yes	No
Gas Station	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vehicle Repair Shop	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Car Dealership	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Auto Garage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Depot	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Commercial Printing Facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Industrial or commercial	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dry Cleaners	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No		Yes	No
Gas Station	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vehicle Repair Shop	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Warehouses					
Photo Developing Laboratory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hospital	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Junkyard or landfill	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Agricultural/Farming Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tannery	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Livestock Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**d. Does the project have an underground storage tank other than a residential fuel tank, or known or suspected to be contaminated by toxic chemicals or radioactive materials?**

Yes  No

**e. Is the project site near an industry disposing of chemicals or hazardous wastes?**

Yes  No

If Yes to any of the above, a qualified environmental professional must undertake investigations necessary to ensure that the project is free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances such that there is no hazard which could affect the health and safety of occupants or conflict with the intended utilization of the property. Continue.

If No to all of the above, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

**f. Could nearby toxic, hazardous or radioactive substances affect the health and safety of project occupants or conflict with the intended use of the property?**

Yes or  No

**g. Are there unresolved concerns that could lead to the RE being determined to be a Potentially Responsible Party (PRP)?**

Yes  No

If Yes, continue.

If No, provide written documentation from a qualified environmental professional which documents that identified potential sources of contamination does not pose a hazard which would restrict the intended uses of the property or to the occupants.

- h. Was an ASTM Phase I Environmental Site Assessment (ESA) report completed for this project? (Note: HUD regulations do not require an ASTM Phase I ESA report for single family homes of 1-4 units. HUD requires an ASTM Phase I ESA for multifamily (5 or more units) and/or Non-residential properties for environmental review prepared under Part 50.)***

Yes  No

- i. Did the ASTM Phase I ESA or other documentation uncover any Recognized Environmental Conditions (RECs) or recommend a Phase II, special/specific Phase II, or recommend Phase III environmental site assessments?***

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

- j. Do ESAs or other documentation conclude that nearby toxic, hazardous or radioactive substances could affect the health and safety of project occupants or conflict with the intended use of the property?***

Yes or  No

If Yes, continue below.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

- k. Did any of the ESA reports or other documentation identify the need to mitigate the environmental condition by removing, stabilizing or encapsulating the toxic substances in accordance with the requirements of the appropriate Federal, state or local oversight agency?***

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

- l. Can all adverse environmental conditions identified in any of the ESAs or other documentation be mitigated?***

Yes  No

If Yes, compliance with this section is complete. List specific remedial actions or mitigations in the mitigation section of the Statutory Checklist, according to the requirements of the appropriate Federal, state, or local oversight agency. Mark box “B” on the Statutory Checklist for this authority.

If No, HUD cannot provide assistance for the project at this site.

Comments: The proposed project area is residential. Based on field observations by the Preparer with Wise County Public Service Authority, there was no indication of distressed vegetation, past industrial or commercial use, aboveground tanks, vent pipes, etc. The project is in compliance.

Cite and attach source documentation: (Maps showing project distance to contaminated sites. Phase I (ASTM) Report. All ESAs and mitigation plans performed for this project.)

For additional information see:

HUD Information on Hazardous, Toxic or Radioactive Substances

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/environment/review/hazardous](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/review/hazardous)

NEPAssist: <http://134.67.99.123/nepassist/entry.aspx>

EPA Envirofacts Data:

<http://www.epa.gov/enviro/>

EPA Toxic Release Inventory (TRI):

[http://www.epa.gov/enviro/html/toxic\\_releases.html](http://www.epa.gov/enviro/html/toxic_releases.html)

EPA Maps:

<http://www.epa.gov/emefdata/em4ef.home>

EPA CERCLIS/NPL – Superfund database:

<http://www.epa.gov/superfund/sites/query/basic.htm>

ATSDR “ToxFAQs” summaries about hazardous substances:

<http://www.atsdr.cdc.gov/toxfaqs/index.asp>

Right-To-Know Network: <http://www.rtknet.org/>

14. §58.5(j) *Environmental Justice (E.O. 12898)*

**a. Is the project located in or designed to serve a predominantly minority and low-income neighborhood?**

Yes  No

If Yes, continue.

If No, compliance with this section is complete. Mark box “A” on the Statutory Checklist for this authority.

**b. Would there be an adverse environmental impact caused by the proposed action, or would the proposed action be subject to an existing adverse environmental impact?**

Yes  No

If No, compliance with this section is complete. Mark box "A" on the Statutory Checklist for this authority.

If Yes, perform an Environmental Justice (EJ) analysis using census, geographic and other data to determine if a low-income/minority population is disproportionately impacted. Continue.

**c. Will the adverse environmental impact of the proposed action disproportionately impact minority and low-income populations relative to the community-at-large?**

Yes  No

If Yes, Mitigation or avoidance of adverse impacts must be considered to the extent practicable; and, public participation processes must involve the affected population(s) in the decision-making process. Continue.

If No, compliance with this section is complete. Document the determination of no disproportionate impacts. Mark box "A" on the Statutory Checklist for this authority.

**d. Has the mitigation plan been approved by the RE and the impacted community?**

Yes  No

If Yes, compliance with this section is complete. Include mitigation plan in the mitigation section of the Statutory Checklist. Mark box "B" on the Statutory Checklist for this authority.

If No, Project cannot move forward until EJ issue is mitigated to the satisfactory of the RE and impacted community.

Comments: The project is not designed to serve a predominantly minority or low-income based neighborhood. No adverse environmental impacts were identified in the project total environmental review. The project is in compliance with Executive Order 12898.

Cite and attach source documentation: (Mapping of low-income and minority populations in the vicinity of the project site. EJ analysis. Mitigation Plan.)

For additional information see:

EJ maps & analysis, by location:

<http://www.scorecard.org/community/ej-index.tcl>

EPA's "EJ View" Tool provides information relevant to EJ assessments:

<http://epamap14.epa.gov/eimap/entry.html>

Census data and maps also available at:

<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>

Tract-level data on race & income:

<http://www.ffiec.gov/geocode>

*15. Summary of Mitigation Measures:*

(Required for Incorporation into Project Design, included in Public Notices, and included as requirements of contracts, grants, loans, etc. Ensure final measures are included in Project Description Section of 7015.15.)

*16. References:*

Natural Resources Conservation Service; US Army Corps of Engineers; US Fish & Wildlife Service; Virginia Department of Conservation & Recreation; Virginia Department of Environmental Quality; Virginia Department of Game & Inland Fisheries; Virginia Department of Historic Resources; Virginia Department of Transportation; Virginia Marine Resources Commission; Eastern Band of Cherokee; Environmental Protection Agency; Federal Emergency Management Agency; National Wild & Scenic Rivers System.

*17. List of Major Reports Obtained:*

*18. List of Preparers and Summary of Qualifications:*

Jimmy Adkins—LENOWISCO Planning District Commission. Has completed environmental reports/assessments for USDA--Rural Development; Virginia Department of Transportation and Virginia Department of Housing and Community Development.

## 1.2 ERR Part 2

Environmental Assessment  
Determinations and Compliance Findings for HUD-assisted Projects  
24 CFR Part 58

### Project Information

Project Name: Lower Guest River Sewer Line Extension

Responsible Entity: Wise County

Grant Recipient (if different than Responsible Entity):

State/Local Identifier:

Preparer: LENOWISCO Planning District Commission

Certifying Officer Name and Title: Shannon Scott, County Administrator

Grant Recipient (if different than Responsible Entity):

Consultant (if applicable):

Direct Comments to:

**Project Location:** The larger Lower Guest River Sewer Extension area, as shown on the attached maps, lies along Guest River Road (St. Rt. 620) in central Wise County, Virginia. Wells-Boone Road, Wells-Adams Road and Eisenhower Road (representing the three proposed phases) each generally lie perpendicular to Guest River Road. This larger area lies within the Guest River sewer service area.

**Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:**

The Lower Guest River sewer line extension project is designed to extend new public sewer service into a presently unserved area of Wise County via 7,250 linear feet of 8-inch gravity sewer line and 3,260 linear feet of 4-inch service line, with related appurtenances. Phase I (Wells-Boone Road) is expected to serve 11 households, Phase II (Eisenhower Road) is expected to provide serve 12 households, and Phase III (Wells-Adams Road) is expected to serve 29 households.

**Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:** There currently is no public provision of wastewater collection service in the Lower Guest River service area, which is served by on-site septic systems with field lines. Several of the existing systems are subject to poor performance due to age, historical lack of maintenance, and soil conditions.

**Existing Conditions and Trends [24 CFR 58.40(a)]:** Elevations in the project area range from 2,100 feet to 2,200 feet. The project area, predominantly rural residential, is currently served by on-site septic systems. Little to no growth is projected for the service area.

**Funding Information:**

Grant Number	HUD Program	Funding Amount
Phase I	CDBG	\$122,652
	Non-CDBG	\$125,000
Phase II	Total Cost	\$352,570
Phase III	Total Cost	\$487,013

Estimated Total CDBG Funded Amount: \$122,652 (for Phase I only, Phases II and III are yet to be determined)

Estimated Total Project Cost (CDBG and non-CDBG funds) [24 CFR 58.32(d)]: \$1,087,235

***Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities***

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes,	Are formal	Compliance determinations
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Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	compliance steps or mitigation required?	
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project is not within 15,000' of a military airport or 2,500' of a civilian airport. The nearest airport (civilian) is 29,000' from the project area. Refer to map showing project area and airport location.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project area is not located in a CBRS Unit. Therefore the project has no potential to impact a CBRS Unit. Refer to CBRS map included with this review packet.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project area does occur in a floodplain but is in compliance with Executive Order 11988. Refer to FEMA maps included in this review packet.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Based on the project description, this project includes no activities that would require further evaluation under the Clean Air Act. Refer to response letter from VDEQ.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wise County has no coastal resources. Refer to attached map of Virginia showing coastal zone in relation to project area.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Based on a field observation visit by the Preparer there is no indication of distressed vegetation, past industrial or commercial use, aboveground tanks, vent pipes, etc.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Due to the nature of the project, there will be no impact to biological resources. There will be no clear-cutting of trees, no work within wetlands, etc. Refer to USFWS self-certification letter, as well as response from VDCR.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Based on the project description, the project does not include activities that would require further evaluation under this section.

Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project includes not activities that could potentially convert agricultural land to non-agricultural use. Refer to completed CPA-106 from from NRCS.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project area does occur in a floodplain but is in compliance with Executive Order 11988. Refer to FEMA maps included in this review packet.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	VDHR stated in a letter dated September 10, 2014, that <i>“No Historic Properties Affected”</i> for this project, therefore it is in compliance with Section 106. The Eastern Band of Cherokee Indians in an email dated September 18, 2014 that <i>“the EBCI THPO does not believe that cultural resources important to the Cherokee people should be adversely impacted...”</i>
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Based on the project description, the project does not include activities that would require further evaluation under HUD’s noise regulation. Also refer to VDEQ’s response letter.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project area is not located within the boundaries of a sole source aquifer. Refer to attached EPA map showing the approximate location of designated sole source aquifers in relation to the project area location.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The project will not impact wetlands. Refer to to attached USFWS Wetland map. Strict adherence to E&S control will be implemented. The project is in compliance with Executive Order 11990.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	There are no nationally designated Wild/Scenic Rivers in Wise County per National Park Service; The portion of Guest River that is designated Scenic River per DCR begins in Coeburn approximately 9 miles away. Maps/lists are in Section 6.15.
<b>ENVIRONMENTAL JUSTICE</b>		
Environmental Justice Executive Order 12898	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No adverse environmental impacts were identified in the project’s total environmental review.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. All conditions, attenuation or mitigation measures have been clearly identified.

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The proposed project will not adversely affect the current zoning ordinance of Wise County.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The proposed project will not adversely affect erosion or drainage. The trench will be backfilled, graded to pre-construction condition, and seeded/mulched.
Hazards and Nuisances including Site Safety and Noise	2	No impacts anticipated.
Energy Consumption	2	The completed project should not have any, or very minimal, change in energy consumption.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	N/A

Demographic Character Changes, Displacement	2	No displacement as the waterline will be on existing road rights-of-way; no demographic character changes will occur.
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Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	No impacts anticipated.
Commercial Facilities	2	No impacts anticipated.
Health Care and Social Services	2	No impacts anticipated.
Solid Waste Disposal / Recycling	2	No impacts anticipated.
Waste Water / Sanitary Sewers	1	As there is no public sanitary sewer system in the community, no impact. This project will provide public wastewater services.
Water Supply	2	No impacts anticipated.
Public Safety - Police, Fire and Emergency Medical	2	No impacts anticipated.
Parks, Open Space and Recreation	2	No impacts anticipated.
Transportation and Accessibility	2	No impacts anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	No impacts anticipated.
Vegetation, Wildlife	2	No impacts anticipated.

Other Factors	2	No impacts anticipated.
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Additional Studies Performed:

Field Inspection (Date and completed by): The preparer of this ERR, Jimmy Adkins, made a field visit to the project area on September 24, 2014.

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]: Tyler Howe-Tribal Historic Preservation Office, Eastern Band of Cherokee.

List of Permits Obtained: Joint Permit Application; Waterworks Permit Application.

Public Outreach [24 CFR 50.23 & 58.43]: There will be a public comment period for the Environmental Review Record.

Cumulative Impact Analysis [24 CFR 58.32]: The completed project will have a positive impact for the community. It will supply safe and dependable wastewater services to the Guest River community. It will not negatively impact biological, aquatic, or other natural resources.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]: There are no alternatives to the proposed action. The installation of the line work on previously disturbed existing rights-of-way will allow for the least impact, if any, to environmental resources.

No Action Alternative [24 CFR 58.40(e)]: The “no action” alternative would force the Guest River community residents to continue relying on existing on-site septic systems, which many have failed, the No Action Alternative does not resolve the issues of wastewater treatment and environmental enhancement at the headwaters of the Guest River. This alternative does not address the financial issue, as the additional customers will not be added and the interceptor cost will be covered without revenue from all the connections.

Summary of Findings and Conclusions: the completion of the proposed project is not unlikely to have any adverse effects on the environment, nor will the environment adversely affect the end users of the project. No concerns have arisen from the investigation of potential environmental impacts.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

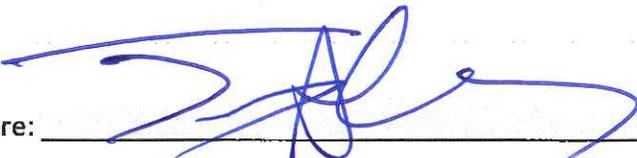
Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

## Determination:

Law, Authority, or Factor	Mitigation Measure
Erosion and Sediment Control Measures	Follow the plan described in the Virginia Erosion and Sediment Control Handbook, 1992.
General Construction Practices	Follow safety standards established by OSHA, Code of Virginia and all other industry standards.
Working within Stream Environments	Work with the US Army Corps of Engineers, Department of Environmental Quality, Virginia Department of Transportation, and any other applicable agencies to minimize impacts on the aquatic environment.
Virginia Department of Transportation	Land Use Permit and Road Crossing Permits
U.S. Army Corps of Engineers	Joint Permit Application
Wise County Building Inspector	Erosion and Sediment Control Permit

Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27]  
The project will not result in a significant impact on the quality of the human environment.

Finding of Significant Impact [24 CFR 58.40(g)(2); 40 CFR 1508.27]  
The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: May 1<sup>st</sup>, 2015

Name/Title/Organization: Jimmy Adkins / Regional Planner / LENOWISCO, PDC

Certifying Officer Signature:  Date: May 1<sup>st</sup>, 2015

Name/Title: Shannon Scott--County Administrator

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

## 2.0 PURPOSE AND NEED OF PROJECT

Wise County (hereby often referred to as the County) and The Wise County Public Service Authority (hereby often referred to as WCPSA) wishes to provide a necessary wastewater collection system to the Lower Guest River community outside of Norton City, to improve the quality of life for residents as well as improve current public health.

### 2.1 Project Description

This Lower Guest River Sewer Line Extension Project consists of the following:

- 7,250 L.F. 8" gravity sewer line
- 80 L.F. 8" gravity sewer line for road crossings
- 12 EA boring attempts
- 3,260 L.F. 4" service line
- 400 L.F. 4" service line for road crossings
- 52 service connections including piping, wyes, MH connections, cleanouts and plugs
- 40 EA standard manholes
- 60 L.F. manhole extension
- 8 EA extra charge for manhole vents
- 55 C.Y. miscellaneous trench concrete
- 125 tons miscellaneous course aggregate

The construction area is on previously disturbed land and located along Virginia Department of Transportation (VDOT) right of way with a minimum amount of easements that may be required.

The preliminary probable project cost for the Lower Guest River Sewer Line Extension Project is \$1,047,479.

### 2.2 Purpose and Need

The residents of the Lower Guest River community have expressed a desire for dependable wastewater collection service and this project has become a priority for the Wise County Public Service Authority. With completion of the three phases that make up the Lower Guest River Sewer Line Extension Project, affected stakeholders agree it is a worthwhile and sustainable project.

## 3.0 ALTERNATIVES TO THE PROPOSED ACTION

Wise County Public Service Authority, in consultation with Thompson & Litton engineering firm, the following two (2) final proposals were presented.

### 3.1 Alternative I: Do Nothing

- **General Description:** The “No-Action” Alternative is included in order to note consideration of all potential alternatives. However, because many of the existing on-site septic systems have failed, the No-Action Alternative does not resolve the issues of wastewater treatment and environmental enhancement of the headwaters of the Guest River. Alternative II does not address the financial issue, as the additional customers will not be added, and the interceptor cost will not be covered without revenue from all the connections. Therefore, this Alternative is not viable and is not developed further.

### 3.2 Alternative II: Lower Guest River Sewer Line Extension

- **General Description:** Alternative 2 generally consists of constructing 7,250 linear feet (L.F.) of 8-inch gravity sewer collection line with appurtenances to connect fifty-two (52) residential customers to the Guest River interceptor by gravity. Appurtenances including manholes, 4-inch service line, and road crossings are required to connect fifty-two (52) new users to the system.

### 3.3 Conclusion and Recommendations

Alternative 2: This Alternate would provide needed wastewater service with little operating costs, since the system is served by gravity sewer lines. Any negative impacts will be temporary during construction, and will be negligible after the construction site is stabilized. However, funding is not available to construction the entire project at this time. Therefore, a phased approach must be considered.

The Lower Guest River service area consists of three (3) adjacent subareas which must be connected to the Guest River interceptor. Each of these subareas lies on or near Guest River Road. The Wise County Public Service Authority has made the decision to divide the project into three phases. This phased-project proposal will meet identified needs of the Wise County Public Service Authority and will consist of the following:

- **Phase I: Construct the Wells-Boone/Guest River Road Sewer Line Extension**
  - This project phase consists of 1,200 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch

interceptor. Appurtenances including manholes, 4-inch service line, and road crossings required to connect eleven (11) new users to the system.

- **Phase II: Construct the Eisenhower/Guest River Road Sewer Line Extension**
  - This project phase consists of 2,450 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch interceptor. Appurtenances including manholes, 4-inch service line, and road crossings required to connect twelve (12) new users to the system.
  
- **Phase III: Construct the Wells-Adams/Guest River Road Sewer Line Extension**
  - This project phase consists of 3,600 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch interceptor. Appurtenances including manholes, 4-inch service line, and road crossings required to connect twenty-nine (29) new users to the system.

## 4.0 AFFECTED ENVIRONMENT / ENVIRONMENTAL CONSEQUENCES

The proposed Lower Guest River Sewer Line Extension Project will have its main construction focused in the Guest River area of Wise County, north of the City of Norton and southwest of the Town of Wise. Letters were sent to the various federal and state regulatory agencies requesting information regarding the presence of any environmental resources within the project area. Agency correspondences and documents received are contained in Section 6 of this report. A list of agencies contacted and information provided herein are included in Section 8 of this report. All statements contained in this report regarding any anticipated environmental impacts of the project are based on information provided by those agencies and by stakeholders with a general familiarity with the project and within the Area of Potential Effects, or APE (also referred to as impact area or project area). Those stakeholders include, but are not limited to, governmental officials, localities, engineering firms, and the general public.

### 4.1 Land Use / Important Farmland / Formally Classified Lands

#### 4.1.1 Affected Environment

The land use along the route of the proposed water line portion of the project, as well as the individual sites for installation, improvements or rehabilitation is primarily residential and commercial with no agricultural lands. The proposed project would be constructed on or near existing VDOT right of way and the entire project area is considered previously disturbed.

The Natural Resources Conservation Service (NRCS) and the Department of Conservation and Recreation (DCR) were contacted by letter for their comment on prime farmland and classified lands within the project area. Copies of these agencies' responses are contained in Section 6.

According to information obtained from the NRCS, prime or important farmland does not exist within the project area nor does local important farmland.

#### 4.1.2 Environmental Consequences

According to NRCS, the project will have no adverse impacts to prime, unique, statewide or local important farmland as identified in the Farmland Protection Policy Act (FPPA). Discharge of runoff to sinkholes or sinking stream, filling of sinkholes, and alteration of cave entrances can lead to surface collapse, flooding, erosion, and sedimentation, groundwater contamination, and degradation of subterranean habitat for natural heritage resources. No permanent loss or destruction of farmland or open space will occur directly

as a result of this project, as well as no short term or long term impacts to farmland or open spaces are anticipated as a result of the implementation of the project.

#### **4.1.3 Mitigation**

If karst features are encountered during the project, please coordinate with Wil Orndorff at the Virginia Department of Conservation and Recreation to document and minimize any adverse impacts. Mr. Orndorff may be reached at (540) 553-1235 or [Wil.Orndorff@dcr.virginia.gov](mailto:Wil.Orndorff@dcr.virginia.gov).

## **4.2 Floodplains**

### **4.2.1 Affected Environment**

The project was compared to the Federal Emergency Management Agency Flood Insurance Rate Maps utilizing Wise County's internet-based GIS mapping tool and consultation with the project engineer. There should be no above-ground improvements within the 100-year floodplain as a result of this project. Due diligence research indicated that some portions of the project's construction may occur within the 100-year floodplain, but expects no known floodplain impacts to be anticipated as a result of this project. The three portions of the project that may be located within the 100-year floodplain are the connections to the main sewer line interceptor that runs along Guest River and their given appurtenances. The 8-step decision making process for Executive Order 11988 was followed but the only option for the project is to connect to the existing main sewer interceptor that portions of construction may fall within the 100-year floodplain.

### **4.2.2 Environmental Consequences**

The project will be constructed on previously disturbed land. There will be no above-ground structures located in the 100-year floodplain, thus no adverse impacts are anticipated.

### **4.2.3 Mitigation**

All areas disturbed by construction activities will be restored to their approximate original contour and all construction activities will adhere to proper erosion and sediment control practices in order to minimize the potential for adverse impacts to the floodplain. No permanent above-ground structures will be constructed in the floodplain.

## **4.3 Wetlands**

### **4.3.1 Affected Environment**

A review of the U.S. Department of the Interior's National Wetlands Inventory mapping revealed there are no registered wetlands within the proposed project area; therefore no federally listed wetlands are expected to be encountered during construction.

#### **4.3.2 Environmental Consequences**

Since the proposed project area constructed within previously disturbed areas, no environmental consequences are anticipated to occur to wetlands. A Joint Permit Application Process to the Virginia Marine Resources Commission will need to be followed.

#### **4.3.3 Mitigation**

No dredged or fill material or mechanized land clearing in wetlands or waters of the United States will occur. All required permits would be obtained prior to construction activity, giving the US Army Corps of Engineers another opportunity to comment. Should subsequent comments from USACE indicate the presence of wetlands, efforts will be made by the design engineer to relocate facilities, where practical, away from wetlands and watercourses.

For unavoidable impacts, the DEQ recommends the following practices to minimize the impacts to wetlands and waterways: use of directional drilling from upland locations; use of synthetic mats when in-stream work is unavoidable; stockpiling of material excavated from the trench for replacement if directional drilling is not feasible; and preservation of the top 12 inches of trench material removed from wetlands for use as wetland seed and root stock in the excavated area.

If the project will impact any streams and/or wetlands, a Joint Permit Application (JPA) will be required. The Virginia Marine Resources Commission (VMRC) serves as the clearinghouse for the JPA used by: 1. United States Army Corps of Engineers for issuing permits pursuant to § 404 of the Clean Water Act and § 10 of the Rivers and Harbors Act; 2. Department of Environmental Quality for issuance of Virginia Water Protection Permit pursuant to § 401 of the Clean Water Act, Virginia Code § 62.1-44.2 et.seq., Virginia Code § 62.1-44.15:5, and Virginia Administrative Code 9 VAC 25-210-10 et.seq.; and 3. Virginia Marine Resources Commission regulates encroachments on or over state-owned subaqueous beds as well as tidal wetlands pursuant to Virginia Code § 28.2-1200 through 1400.

### **4.4 Cultural Resources**

#### **4.4.1 Affected Environment**

The Virginia Department of Historic Resources (DHR) was contacted to initiate the consultation process under Section 106 of the National Historic Preservation Act (NHPA). A

DHR archive search was performed to determine if any properties were within the project area. Copies of these correspondences are contained in Section 6.

#### **4.4.2 Environmental Consequences**

Per the Department of Historic Resources, there are no recorded historical sites within or adjacent to the project area. Accordingly, DHR made the determination that *no historic properties are affected* by this project.

#### **4.4.3 Mitigation**

In the event that a previously unidentified archaeological resource is discovered during ground disturbing activities, all construction work involving subsurface disturbance will be halted in the area of the resource and in the surrounding area where further subsurface remains can be reasonably expected to occur. Rural Development and the Virginia SHPO will be contacted immediately. The Virginia SHPO, or an archeologist approved by them, will inspect the work site and determine the area and the nature of the affected archeological property. Construction work may then continue in the project area outside the finding area. Rural Development, in consultation with the Virginia SHPO will determine the National Register eligibility of the resources. If the resource is determined to meet the National Register Criteria (36 CFR Part 60.6), the owner will ensure compliance with Section 800.11 of the Advisory Council on Historic Preservation's regulations. Work in the affected area shall not proceed until either (a) the development and implementation of appropriate data recovery or other recommended mitigation procedures, or (b) the determination is made that the located remains are not eligible for inclusion on the National Register.

### **4.5 Biological Resources**

#### **4.5.1 Affected Environment**

The United States Fish and Wildlife Service, the Virginia Department of Game and Inland Fisheries (DGIF) and the Virginia Department of Conservation and Recreation (DCR) were contacted for their comment on the proposed project. Copies of these agencies responses are contained in Section 6.

#### **4.5.2 Environmental Consequences**

Under a Memorandum of Agreement established between the DACS and DCR, DCR represents DACS in comments regarding potential on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects. DCR's files do not indicate the presence of any State Natural Area Preserves under DCR's jurisdiction in the project vicinity. Also, the majority of the project's impact area is located along existing public road right-of-ways and/or other

previously disturbed areas, thus no adverse impacts to the wildlife in the project area are anticipated. Finally, due to the geographic location of the project, no marine life is anticipated to be affected.

According to DCR, the Tangerine darter (*Percina aurantiaca*, G4/S2S3/NL/NL) has been historically documented in the Guest River. There are also no State natural Area Preserves under DCR's jurisdiction in the project vicinity.

A search of DGIF's online Fish and Wildlife Information service was conducted on each individual site. There was reported that 459 "Known or Likely Species" exist within a three (3) mile radius of the proposed project site. A VMRC permit will be required prior to construction and DGIF will further review this project at that time.

The U.S. Fish and Wildlife Service (USFWS) online database tool was used to compare the project area for this project to federally listed threatened or endangered species or habitats. The USFWS review concluded that "no effect" and/or "not likely to adversely affect" and/or "no Eagle Act permit required" for the proposed project area. Forty-two (42) species were confirmed to potentially be within the project area based on a review of the Virginia Department of Game and Inland Fisheries information. Those identified are:

<a href="#">BOVA Code</a>	<a href="#">Status*</a>	<a href="#">Tier**</a>	<a href="#">Common Name</a>	<a href="#">Scientific Name</a>
50021	FESE	II	<a href="#">Bat, gray</a>	Myotis grisescens
50023	FESE	I	<a href="#">Bat, Indiana</a>	Myotis sodalis
50022	FP		<a href="#">Bat, northern long-eared</a>	Myotis septentrionalis
60146	FESE	II	<a href="#">Bean, Rayed</a>	Villosa fabalis
100653	FS	II	<a href="#">BEETLE, CAVE</a>	Pseudanophthalmus seclusus
100330	FS	II	<a href="#">Beetle, Little Kennedy Cave</a>	Pseudanophthalmus cordicollis
100347	FS	II	<a href="#">Beetle, Overlooked cave</a>	Pseudanophthalmus praetermissus
70118	FSSE	II	<a href="#">Crayfish, Big Sandy</a>	Cambarus veteranus
70146	FS	II	<a href="#">Crayfish, Powell River</a>	Cambarus jezerinaci
40052		II	<a href="#">Duck, American black</a>	Anas rubripes
40093	FS	II	<a href="#">Eagle, bald</a>	Haliaeetus leucocephalus
60230		II	<a href="#">Elimia, coal</a>	Elimia aterina
60055	SE	II	<a href="#">Elimia, spider</a>	Elimia arachnoidea
60006	SE	II	<a href="#">Floater, brook</a>	Alasmidonta varicosa
100001	FS	IV	<a href="#">fritillary, Diana</a>	Speyeria diana
20011		II	<a href="#">Frog, mountain chorus</a>	Pseudacris brachyphona
60080	SE	II	<a href="#">Heelsplitter, Tennessee</a>	Lasmigona holstonia
20020	CC	II	<a href="#">Hellbender, eastern</a>	Cryptobranchus alleganiensis alleganiensis

60121	FESE	II	<a href="#">Kidneyshell, fluted</a>	Ptychobranthus subtentum
10341	FS	II	<a href="#">Loggerch, blotchside</a>	Percina burtoni
10331	FTST	I	<a href="#">Madtom, yellowfin</a>	Noturus flavipinnis
60083	FESE	II	<a href="#">Pearlymussel, slabside</a>	Lexingtonia dolabelloides
60052	FESE	I	<a href="#">Pigtoe, shiny</a>	Fusconaia cor
60050	FS	II	<a href="#">Pigtoe, Tennessee</a>	Fusconaia barnesiana
60122	FESE	I	<a href="#">Rabbitsfoot, rough</a>	Quadrula cylindrica strigillata
30012	CC	IV	<a href="#">Rattlesnake, timber</a>	Crotalus horridus
60069	FSST	III	<a href="#">Riversnail, spiny</a>	Io fluvialis
20030		II	<a href="#">Salamander, green</a>	Aneides aeneus
40225		I	<a href="#">Sapsucker, yellow-bellied</a>	Sphyrapicus varius
10428	FS	III	<a href="#">Sculpin, Clinch</a>	Cottus sp. 4
10076	ST	III	<a href="#">Shiner, emerald</a>	Notropis atherinoides
10075		II	<a href="#">Shiner, popeye</a>	Notropis ariommus
40293	ST	I	<a href="#">Shrike, loggerhead</a>	Lanius ludovicianus
40292	ST		<a href="#">Shrike, migrant loggerhead</a>	Lanius ludovicianus migrans
100155	FSST	I	<a href="#">Skipper, Appalachian grizzled</a>	Pyrgus wyandot
100634	FS	II	<a href="#">SPRINGTAIL, CAVE</a>	Arrhopalites commorus
40319		I	<a href="#">Warbler, black-throated green</a>	Dendroica virens
40320		II	<a href="#">Warbler, cerulean</a>	Dendroica cerulea
40306		I	<a href="#">Warbler, golden-winged</a>	Vermivora chrysoptera
40304		II	<a href="#">Warbler, Swainson's</a>	Limnothlypis swainsonii
40267	SE	I	<a href="#">Wren, Bewick's</a>	Thryomanes bewickii
40266		II	<a href="#">Wren, winter</a>	Troglodytes troglodytes

However, upon further review of those species' habitats, a conclusion has been made that the project area does not contain any suitable habitat for these species. Furthermore, the work will be performed in existing VDOT Right of Way and clear of any bodies of water, caves or wooded areas. Further information and documentation from DCR, USFWS and VDGIF can be found in Section 6.

#### 4.5.3 Mitigation

In regards to threatened and endangered species and critical habitat, no mitigation is required as the project area does not contain any identified threatened or endangered species, federally listed species or designated critical habitat. DCR states that to minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations.

All permits must be obtained prior to the start of construction activities. Any recommendations from DGIF relating to endangered/threatened species and their critical habitat, as a result of the permitting process, will be adopted and strictly adhered to prior to the start of construction. If the scope of the project changes and in-stream work is required, DCR DGIF, and USFWS will be contacted for mitigation measures. Additional details can be found in Section 6.

## **4.6 Water Quality Issues**

### **4.6.1 Affected Environment**

The proposed project does not require in-stream work therefore there will be no affected water quality issues. The Virginia Department of Environmental Quality (DEQ) was contacted for comment on the proposed project. A copy of this correspondence is contained in Section 6.

### **4.6.2 Environmental Consequences**

The Department of Environmental Quality has no objections to the project provided that the applicant abides by all applicable state, Federal, and local laws and regulations. DEQ does acknowledge that short term impacts due to construction will occur to water quality. Prior to construction, all permits and approvals must be obtained. In general, development must incorporate features which prevent significant adverse impacts on ambient air quality, water quality, wetlands, historic structures, fish wildlife, and species of plants, animals, or insects listed by state agencies as rare, threatened, or endangered.

### **4.6.3 Mitigation**

For any land disturbing activities equal to or exceeding 10,000 square feet, or equal to or exceeding 2,500 square feet in all areas subject to the Chesapeake Bay Preservation Act, an erosion and sediment control plan must be approved by the appropriate agencies and approval officials. All Erosion and Sediment Control measures will be implemented in accordance with the current edition of the Virginia Erosion and Sediment Control Handbook and the Virginia Erosion and Sediment Control Regulation which are available from the Virginia Department of Conservation and Recreation.

For any land disturbing activities equal to or exceeding one acre, or equal to or exceeding 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act, must comply with the Virginia Stormwater Management Act and the Virginia Stormwater Management Program (VSMP) Permit Regulations adopted in accordance with the Act.

Solid wastes generated at the site will be reduced at the source, reused, or recycled. All hazardous wastes will be minimized otherwise, all solid waste, hazardous waste, and hazardous material will be managed in accordance with all applicable federal, state, and local environmental regulations.

If the project will impact any streams and/or wetlands, a Joint Permit Application (JPA) will be required. The Virginia Marine Resources Commission (VMRC) serves as the clearinghouse for the JPA used by 1. United States Army Corps of Engineers for issuing permits pursuant to § 404 of the Clean Water Act and § 10 of the Rivers and Harbors Act; 2. Department of Environmental Quality for issuance of Virginia Water Protection Permit pursuant to § 401 of the Clean Water Act, Virginia Code § 62.1-44.2 et.seq., Virginia Code § 62.1-44.15:5, and Virginia Administrative Code 9 VAC 25-210-10 et.seq.; and 3. Virginia Marine Resources Commission regulates encroachments on or over state-owned subaqueous beds as well as tidal wetlands pursuant to Virginia Code § 28.2-1200 through 1400.

Recommendations made by DEQ include the operation of machinery and construction vehicles outside of streambeds and wetlands, the use of directional drilling from upland locations for the installation of utilities, and the use of synthetic mats when in-stream work is unavoidable. In areas where directional drilling is not feasible, DEQ recommends that trench backfill consist of the original material removed. The top twelve inches of trench material removed from wetlands will be stockpiled on mats or filter cloth for final placement as wetland seed and rootstock in the excavated area.

The use of herbicide and pesticide during construction or for landscape maintenance will in accordance with the principles of integrated pest management. The least toxic pesticides that are effective in controlling the target species will be used. The use of these chemicals near waterways will be avoided and the use of petroleum products, other chemicals or other hazardous materials will be carefully monitored.

## **4.7 Coastal Resources**

### **4.7.1 Affected Environment**

The entire project area is located within the boundaries of Wise County, Virginia, where there are no coastal zones or coastal barrier resource systems due to its geographic location.

### **4.7.2 Environmental Consequences**

No environmental consequences are anticipated.

### **4.7.3 Mitigation**

No mitigation measures are required.

## **4.8 Socio-Economic / Environmental Justice Issues**

### **4.8.1 Affected Environment**

The Wise County Public Service Authority will use revenue from their customer base for operation costs and debt retirement for the proposed project. The proposed project will have no disproportionately high adverse human health or environmental effects on the community. DEQ states in their intergovernmental review response: "The Department of Environmental Quality fully supports the referenced water system project in Wise County. The completed project will have a positive impact on the quality of life of Virginia's citizens." A copy of the DEQ's comments, Intergovernmental Review and research memos are in Section 6. The LENOWISCO Planning District Commission also commented support for the project during the intergovernmental review process. That correspondence is also in Section 6.

### **4.8.2 Environmental Consequences**

During construction the contractor employee's wages and the purchase of materials will be a positive short-term economic impact to the community. In addition, the long-term economic impacts will be a positive as Wise County will be strengthening its ability to attract development to the County and region.

This project will only have positive impacts on the residents of the community. No short-term or long-term adverse impacts to the socio-economic composition of the project area are anticipated.

### **4.8.3 Mitigation**

No mitigation measures will be required.

## **4.9 Miscellaneous Issues – Air Quality**

### **4.9.1 Affected Environment**

Air quality in the surrounding area will be affected temporarily due to construction activity and heavy equipment operation.

### **4.9.2 Environmental Consequences**

Project construction activities will require the use of fossil fuel burning equipment (i.e. backhoes). The use of such equipment will produce normal engine exhaust, a by-product of gasoline and diesel fuel combustion. Normal engine emissions occur every day and

dissipate in to the atmosphere at acceptable quality levels. The emissions produced as part of construction activities are not unusual events, and will have only short-term and negligible impacts upon air quality. Also, fugitive dust from construction equipment and ground breaking activities during construction will need to be minimized as needed.

#### **4.9.3 Mitigation**

Fugitive dust caused by the movement of construction materials and construction equipment will be controlled by adherence to the Virginia Department of Environmental Quality regulations and 9 VAC 5-50-60 et.seq., which governs the abatement of visible emissions and fugitive dust emissions. Land clearing wastes (vegetative debris) generated during construction should be properly managed in accordance with applicable regulations and local ordinances. Shredding/chipping of vegetative debris and reuse on-site is recommended over open burning. Any open burning of vegetative debris must be performed in accordance with 9 VAC 5-40-5600 et. seq. and will be coordinated with the local fire official to ensure any local ordinances are met.

#### **4.10 Miscellaneous Issues – Noise**

##### **4.10.1 Affected Environment**

During the construction phase, some nuisance levels may be produced by the engines of construction equipment representing short-term negative impacts to areas in closest proximity to the equipment.

##### **4.10.2 Environmental Consequences**

Noise levels produced during construction will have limited duration times and occur only during working hours. The noise levels produced will not be at any health-endangering thresholds.

##### **4.10.3 Mitigation**

Contractors will be encouraged to use noise control devices and all activities will be limited to normal daylight hours only.

#### **4.11 Miscellaneous Issues – Transportation**

##### **4.11.1 Affected Environment**

The proposed project will have construction along previously disturbed land adjacent to Route 620 / Guest River Road.

##### **4.11.2 Environmental Consequences**

Impacts to transportation facilities will be limited to the temporary disruption of traffic flow associated with the construction of this project. Any land use requirements, lane closures, traffic control or work zone safety issues will be closely coordinated with the local VDOT office. All traffic patterns are expected to return to normal after construction is complete. Therefore, VDOT indicates no adverse impacts to transportation facilities are to be expected.

Mr. Jeff Sams Permit Specialist in the Wise Residency Office (276) 321-2804 should be notified early in the planning, design, and construction process in order to alleviate potential impacts.

#### **4.11.3 Mitigation**

The proposed project will be closely coordinated with the local VDOT office. All aboveground improvements should be made in the 'clear zone' of the roadway. All of VDOT's recommendations and requirements will be implemented.

#### 4.12 Anticipated Impacts to Environmental Resources by Alternatives Table

<u>Resource</u>	<u>Alternative 1</u>	<u>Alternative 2</u>
Land Use / Farmland	No	No
Floodplains	No	No
Wetlands	No	No
Cultural Resources	No	No
Biological Resources	No	No
Water Quality Issues	No	No
Coastal Resources	N/A	N/A
Socio-Economic /Environmental Justice Issues	No	No
Air Quality	No	No
Noise	No	No
Transportation	No	No

## 5.0 SUMMARY OF MITIGATION

### 5.1 Regulations & Permit Information

Construction activities will follow all applicable local, state, and federal regulations to minimize/mitigate potential adverse impacts to the environment. This will include, but is not limited to the following:

- *Erosion and Sediment Control Measures* – A plan, as described in the Virginia Erosion and Sediment Control Handbook, 1992, Virginia Department of Conservation and Recreation, will be developed, approved, and implemented prior to any construction.
- *General Construction Practices* – Construction activities will follow state and federal safety standards (i.e., OSHA), best management practices and accepted industry guidelines to protect not only the environment, but construction personnel as well.
- *Working within Stream Environments* – For water line stream crossing, accepted state guidelines as outlined in stream crossing permits, will be followed to minimize adverse impacts to the aquatic environment.

The following permits will be obtained prior to any construction activity. The agency from which these permits can be obtained is also listed.

- Land Use Permit & Road Crossing Permit – Virginia Department of Transportation
- Erosion and Sediment Control Permit – Wise County Building Inspector
- Joint Permit Application – U.S. Army Corps of Engineers

### 5.2 Mitigation Measures

The proposed Lower Guest River Sewer Line Project is not anticipated to significantly impact any environmental resources within the project area. However, in order to ensure and minimize the impacts of the project, the following mitigation measures will be followed:

- **5.2.1 Land Use / Important Farmland / Formally Classified Lands**

If karst features are encountered during the project, please coordinate with Wil Orndorff at the Virginia Department of Conservation and Recreation to document and minimize any adverse impacts. Mr. Orndorff may be reached at (540) 553-1235 or [Wil.Orndorff@dcr.virginia.gov](mailto:Wil.Orndorff@dcr.virginia.gov).

- **5.2.2 Wetlands**

No dredged or fill material or mechanized land clearing in wetlands or waters of the United States will occur. All required permits would be obtained prior to construction activity, giving the US Army Corps of Engineers another opportunity to comment. Should subsequent comments from USACE indicate the presence of wetlands, efforts will be made by the design engineer to relocate facilities, where practical, away from wetlands and watercourses.

For unavoidable impacts, the DEQ recommends the following practices to minimize the impacts to wetlands and waterways: use of directional drilling from upland locations; use of synthetic mats when in-stream work is unavoidable; stockpiling of material excavated from the trench for replacement if directional drilling is not feasible; and preservation of the top 12 inches of trench material removed from wetlands for use as wetland seed and root stock in the excavated area.

If the project will impact any streams and/or wetlands, a Joint Permit Application (JPA) will be required. The Virginia Marine Resources Commission (VMRC) serves as the clearinghouse for the JPA used by: 1. United States Army Corps of Engineers for issuing permits pursuant to § 404 of the Clean Water Act and § 10 of the Rivers and Harbors Act; 2. Department of Environmental Quality for issuance of Virginia Water Protection Permit pursuant to § 401 of the Clean Water Act, Virginia Code § 62.1-44.2 et.seq., Virginia Code § 62.1-44.15:5, and Virginia Administrative Code 9 VAC 25-210-10 et.seq.; and 3. Virginia Marine Resources Commission regulates encroachments on or over state-owned subaqueous beds as well as tidal wetlands pursuant to Virginia Code § 28.2-1200 through 1400.

- **5.2.3 Cultural Resources**

In the event that a previously unidentified archaeological resource is discovered during ground disturbing activities, all construction work involving subsurface disturbance will be halted in the area of the resource and in the surrounding area where further subsurface remains can be reasonably expected to occur. Rural Development and the Virginia SHPO will be contacted immediately. The Virginia SHPO, or an archeologist approved by them, will inspect the work site and determine the area and the nature of the affected archeological property. Construction work may then continue in the project area outside the finding area. Rural Development, in consultation with the Virginia SHPO will determine the National Register eligibility of the resources. If the resource is determined to meet the National Register Criteria (36 CFR Part 60.6), the owner will ensure compliance with Section 800.11 of the Advisory Council on Historic Preservation's regulations. Work in the affected area shall not proceed until either (a) the development and implementation of appropriate data recovery or other recommended mitigation procedures, or (b) the determination is made that the located remains are not eligible for inclusion on the National Register.

- **5.2.4 Biological Resources**

In regards to threatened and endangered species and critical habitat, no mitigation is required as the project area does not contain any identified threatened or endangered species, federally listed species or designated critical habitat. DCR states that to minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations.

All permits must be obtained prior to the start of construction activities. Any recommendations from DGIF relating to endangered/threatened species and their critical habitat, as a result of the permitting process, will be adopted and strictly adhered to prior to the start of construction. If the scope of the project changes and in-stream work is required, DCR, DGIF, and USFWS will be contacted for mitigation measures. Additional details can be found in Section 6.

- **5.2.5 Water Quality Issues**

For any land disturbing activities equal to or exceeding 10,000 square feet, or equal to or exceeding 2,500 square feet in all areas subject to the Chesapeake Bay Preservation Act, an erosion and sediment control plan must be approved by the appropriate agencies and approval officials. All Erosion and Sediment Control measures will be implemented in accordance with the current edition of the Virginia Erosion and Sediment Control Handbook and the Virginia Erosion and Sediment Control Regulation which are available from the Virginia Department of Conservation and Recreation.

For any land disturbing activities equal to or exceeding one acre, or equal to or exceeding 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act, must comply with the Virginia Stormwater Management Act and the Virginia Stormwater Management Program (VSMP) Permit Regulations adopted in accordance with the Act.

Solid wastes generated at the site will be reduced at the source, reused, or recycled. All hazardous wastes will be minimized otherwise, all solid waste, hazardous waste, and hazardous material will be managed in accordance with all applicable federal, state, and local environmental regulations.

If the project will impact any streams and/or wetlands, a Joint Permit Application (JPA) will be required. The Virginia Marine Resources Commission (VMRC) serves as the clearinghouse for the JPA used by 1. United States Army Corps of Engineers for issuing permits pursuant to § 404 of the Clean Water Act and § 10 of the Rivers and Harbors Act; 2. Department of Environmental Quality for issuance of Virginia Water Protection Permit pursuant to § 401 of the Clean Water Act, Virginia Code § 62.1-44.2 et.seq., Virginia Code § 62.1-44.15:5, and Virginia Administrative Code 9 VAC 25-210-10 et.seq.; and 3. Virginia Marine Resources Commission regulates encroachments on or over state-owned

subaqueous beds as well as tidal wetlands pursuant to Virginia Code § 28.2-1200 through 1400.

Recommendations made by DEQ include the operation of machinery and construction vehicles outside of streambeds and wetlands, the use of directional drilling from upland locations for the installation of utilities, and the use of synthetic mats when in-stream work is unavoidable. In areas where directional drilling is not feasible, DEQ recommends that trench backfill consist of the original material removed. The top twelve inches of trench material removed from wetlands will be stockpiled on mats or filter cloth for final placement as wetland seed and rootstock in the excavated area.

The use of herbicide and pesticide during construction or for landscape maintenance will in accordance with the principles of integrated pest management. The least toxic pesticides that are effective in controlling the target species will be used. The use of these chemicals near waterways will be avoided and the use of petroleum products, other chemicals or other hazardous materials will be carefully monitored.

- **5.2.6 Air Quality**

Fugitive dust caused by the movement of construction materials and construction equipment will be controlled by adherence to the Virginia Department of Environmental Quality regulations and 9 VAC 5-50-60 et.seq., which governs the abatement of visible emissions and fugitive dust emissions. Land clearing wastes (vegetative debris) generated during construction should be properly managed in accordance with applicable regulations and local ordinances. Shredding/chipping of vegetative debris and reuse on-site is recommended over open burning. Any open burning of vegetative debris must be performed in accordance with 9 VAC 5-40-5600 et. seq. and will be coordinated with the local fire official to ensure any local ordinances are met.

- **5.2.7 Noise**

Contractors will be encouraged to use noise control devices and all activities will be limited to normal daylight hours only.

- **5.2.8 Transportation**

The proposed project will be closely coordinated with the local VDOT office. All aboveground improvements should be made in the 'clear zone' of the roadway. All of VDOT's recommendations and requirements will be implemented.

- **5.2.9 Visual Aesthetics**

Thorough cleanup and restoration of all disturbed areas is required prior to project completion.

- **5.2.10 Monitoring**

In order to determine the effectiveness of the planned mitigation efforts, respective permitting agencies are anticipated to conduct periodic inspections during and immediately following construction completion.

## 6.0 CORRESPONDENCE

Letters were sent to various regulatory agencies requesting their comments on the environmental resources within the project area. There were both internal and external search tools used in accordance to several regulatory agencies. The following agencies were contacted and/or provided research pertinent to this Environmental Review:

- 6.1 Department of Environmental Quality (DEQ)
- 6.2 United States Army Corps of Engineers (USACE)
- 6.3 Virginia Marine Resources Commission (VMRC)
- 6.4 Virginia Department of Transportation (VDOT)
- 6.5 Natural Resources Conservation Service(NRCS)
- 6.6 Department of Historical Resources (DHR)
- 6.7 Department of Conservation and Recreation (DCR)
- 6.8 United States Fish and Wildlife Service (USFWS)
- 6.9 Virginia Department of Game & Inland Fisheries (VDGIF)
- 6.10 Floodplain Management Research
- 6.11 Airport Research
- 6.12 Environmental Justice/Executive Order 12898 Memo
- 6.13 Eastern Band of Cherokee Indians
- 6.14 EPA Map of Sole Source Aquifers
- 6.15 Scenic Rivers of Virginia
- 6.16 EPA EnviorMapper

## 7.0 EXHIBITS

- 7.1 Overall Project Map
- 7.2 Project Scope Letter
- 7.3 Project Abstract
- 7.4 Preliminary Engineering Report

## 8.0 LIST OF PREPARERS

Agency correspondence submittals, online research, various exhibit preparation, and Environmental Review/Assessment document assembly was performed by:

LENOWISCO Planning District Commission  
P.O. Box 366  
Duffield, VA 24244  
276.431.2206 (w)  
276.431.2208 (f)

Regulatory agencies contacted for information presented in this assessment include:

Department of Environmental Quality  
United States Army Corps of Engineers  
Virginia Marine Resources Commission  
Virginia Department of Transportation  
Natural Resources Conservation Service  
Department of Historical Resources  
Department of Conservation and Recreation  
United States Fish and Wildlife Service  
Virginia Department of Game & Inland Fisheries



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

### SOUTHWEST REGIONAL OFFICE

355-A Deadmore Street, Abingdon, Virginia 24210

Phone (276) 676-4800 Fax (276) 676-4899

[www.deq.virginia.gov](http://www.deq.virginia.gov)

Molly Joseph Ward  
Secretary of Natural Resources

David K. Paylor  
Director

Allen J. Newman, P.E.  
Regional Director

July 31, 2014

Jimmy Adkins, Regional Planner  
Lenowisco Planning District Commission  
PO Box 366  
Duffield, Virginia 24244-0366

Re: Wise County: Lower Guest River Sewer Extension

Dear Mr. Adkins:

The Department of Environmental Quality fully supports the referenced sewer system project in Wise County. The completed project will have a positive impact on the quality of life of Virginia's citizens. This project includes installation of 7,250 feet of eight-inch gravity sewer collection line and associated appurtenances to connect 52 residential customers in three phases. The entire project is located in HUC 06010205-P11R. This Section 2 Class IV segment of the Guest River is impaired for the Recreation Use due to excessive bacteria and for the Aquatic Life Use because benthic communities are poor. The bacteria TMDL is not complete, however, the TMDL is complete for the benthic impairment and sedimentation was identified as the cause. This document may be viewed at:

<http://www.deq.virginia.gov/portals/0/DEQ/Water/TMDL/apptmdls/tenbigrvr/guestbc.pdf>

The following discussion is provided as a guideline of programs administered by the DEQ and other agencies of the Commonwealth, which could be applicable to the proposed action. Final determination concerning potential impacts on these programs rests with DEQ's Southwest Regional Office and the appropriate agency administering each program. It is the responsibility of the applicant to coordinate development with these agencies. Native seed mixtures are recommended for the sites once the excavation work is completed.

The Department of Environmental Quality has no objections to the project provided that the applicant abides by all applicable state, Federal, and local laws and regulations. Prior to construction, all permits and approvals must be obtained. In general, development must incorporate features which prevent significant adverse impacts on ambient air

quality, water quality, wetlands, historic structures, fish wildlife, and species of plants, animals, or insects listed by state agencies as rare, threatened, or endangered.

**1. Water Quality and Wetlands.** Although no long-term adverse impacts to water quality are anticipated from this project, potential short-term adverse impacts resulting from surface runoff due to construction must be minimized. This can be achieved by using Best Management Practices (BMPs).

Federal and state governments regulate impacts to streams and wetlands. The Virginia Marine Resources Commission serves as the clearinghouse for the Joint Permit Application (JPA) used by: (1) U.S. Army Corps of Engineers for issuing permits pursuant to § 404 of the Clean Water Act and § 10 of the Rivers and Harbors Act, (2) Department of Environmental Quality for issuance of Virginia Water Protection Permit pursuant to § 401 of the Clean Water Act, Virginia Code § 62.1-44.2 et seq., Virginia Code § 62.1-44.15:5, and Virginia Administrative Code 9 VAC 25-210-10 et seq.; and (3) Virginia Marine Resources Commission regulates encroachments on or over state-owned subaqueous beds as well as tidal wetlands pursuant to Virginia Code § 28.2-1200 through 1400. Contact VMRC at (757) 247-2200 to determine the need for a JPA for this project. VMRC will distribute the application to the appropriate agencies. Each agency will conduct its review and respond.

In general, DEQ recommends that the amount of stream and wetland impacts be avoided to the maximum extent practicable. For unavoidable impacts, DEQ encourages the following practices to minimize the impacts to wetlands and waterways: use of directional drilling from upland locations; operation of machinery and construction vehicles outside of stream-beds and wetlands; use of synthetic mats when in-stream work is unavoidable; stockpiling of material excavated from the trench for replacement if directional drilling is not feasible; and preservation of the top 12 inches of trench material removed from wetlands for use as wetland seed and root stock in the excavated area. The Southwest Regional contact is Clairise Shaheen at (276) 676-4809 or email [crshaheen@deq.virginia.gov](mailto:crshaheen@deq.virginia.gov), if a permit is necessary to go forward with the project.

**2. Erosion and Sediment Control and Stormwater Management.** Erosion and sediment control measures must be implemented in accordance with the current edition of the Virginia Erosion and Sediment Control Handbook and the Virginia Erosion and Sediment Control Regulations, which are available online: <http://www.deq.virginia.gov/Programs/Water/LawsRegulationsGuidance.aspx>. If the total land disturbance exceeds 10,000 square feet, an erosion and sediment control plan will be required. Erosion and sediment control requirements are regulated by the local government where your land disturbing activity is occurring. Please contact the appropriate county, city or town for information and compliance requirements.

Stormwater management planning and permitting is required through our Department should your land disturbance be greater than one (1) acre or lie within the boundaries of a common plan of development. Information, permit application, and regulations on our

stormwater management program is available online at:

<http://www.deq.virginia.gov/Programs/Water/StormwaterManagement.aspx>.

Please contact Kelly Miller at our Southwest Regional Office at (276) 676-4879 or email [Kelly.Miller@deq.virginia.gov](mailto:Kelly.Miller@deq.virginia.gov) for more information.

**3. Air Quality.** This project is not likely to adversely affect air quality. However, during construction fugitive dust must be kept at a minimum. This requires, but is not limited to, measures such as application of water to suppress dust and washing down construction vehicles and paved roadways immediately adjacent to the construction site. The following sections of Virginia Administrative Code (VAC) may be applicable: 9 VAC 5-50-60 *et. seq.*, governs abatement of visible emissions and fugitive dust emissions, and 9 VAC 5-40-5600 *et. seq.* addresses open burning. The Southwest Regional contact is Crystal Bazyk at (276) 676-4829, email [ccbazyk@deq.virginia.gov](mailto:ccbazyk@deq.virginia.gov).

**4. Solid and Hazardous Wastes, and Hazardous Substances.** DEQ administers the Virginia Solid Waste Management Regulations and the Virginia Hazardous Waste Management Regulations. We recommend that all solid wastes generated at the site be reduced at the source, reused, or recycled. All hazardous wastes should be minimized. Otherwise, all solid waste, hazardous waste, and hazardous material must be managed in accordance with all applicable federal, state, and local environmental regulations. Please contact DEQ's Southwest Regional Office at (276) 676-4800 concerning location and availability of waste management facilities in the project area.

**5. Pesticides and Herbicides.** DEQ recommends that the use of herbicides or pesticides for construction or landscape maintenance should be in accordance with the principles of integrated pest management. The least toxic pesticides that are effective in controlling the target species should be used. Please contact the Department of Agriculture and Consumer Services at (804) 786-3501 for more information.

**6. Pollution Prevention.** DEQ recommends that construction projects incorporate the principles of pollution prevention including the following recommendations:

- Consider environmental attributes when purchasing materials. For example, the extent of recycled material content and toxicity level should be considered.
- Choose sustainable practices and materials in infrastructure and construction and design.
- Integrate pollution prevention techniques into maintenance and operation activities to include source reduction (fixing leaks, energy efficient products).

Pollution prevention measures are likely to reduce potential environmental impacts and reduce costs for material purchasing and waste disposal. For more information, contact Sharon Baxter, DEQ's Office of Pollution Prevention, at (804) 698-4344.

**7. Natural Heritage Resources.** The Department of Conservation and Recreation's Division of Natural Heritage (DNH) can search its Biotics Data System (BDS) for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered animal and plant species, unique or exemplary natural communities, and significant geologic communities.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the Department of Conservation and Recreation (DCR), DCR has the authority to report for VDACS on state-listed plant and insect species. We recommend that the DNH be contacted at (804) 786-7951, to secure updated information on natural heritage resources before the project is implemented.

**8. Wildlife Resources.** The Department of Game and Inland Fisheries (DGIF), as the Commonwealth's wildlife and freshwater fish management agency, exercises enforcement and regulatory jurisdiction over wildlife and freshwater fish, including state or federally listed endangered or threatened species, but excluding listed insects (*Virginia Code Title 29.1*). DGIF is a consulting agency under the U.S. Fish and Wildlife Coordination Act (16 U.S.C. sections 661 *et seq.*), and provides environmental analysis of projects or permit applications coordinated through DEQ and several other state and federal agencies. DGIF determines likely impacts upon fish and wildlife resources and habitat, and recommends appropriate measures to avoid, reduce, or compensate for those impacts. For more information, see the DGIF website at [www.dgif.state.va.us](http://www.dgif.state.va.us) or contact Ray Fernald at (804) 367-6913.

**9. Historic and Archaeological Resources.** *Section 106 of the National Historic and Preservation Act of 1966*, as amended, requires that activities that receive federal funding must consider effects to properties that are listed or eligible for listing on the National Register of Historic Places. The Department of Historic Resources (DHR) conducts reviews of projects to determine their effect on historic structures or cultural resources. If applicable, contact DHR. In the event that archaeological resources are encountered during construction, immediately contact Ms. Ethel Eaton, DHR, at (804) 367-2323.

**10. Renewable Energy.** The Department of Environmental Quality (DEQ) was authorized to develop permit-by-rule (PBR) regulations to address natural-resource impacts of renewable energy projects pursuant to the Commonwealth's Small Renewable Energy Projects Act of 2009. There is a PBR regulation for wind energy projects up to a rated capacity of 100 megawatts (9VAC15-40), a PBR regulation for solar energy projects up to a rated capacity of 100 megawatts (9VAC15-60), and a third PBR regulation for combustion energy projects up to a rated capacity of 20 megawatts (9VAC15-70). The last category includes projects that generate electricity from biomass, energy from waste, and municipal solid waste. Each of these renewable energy PBR regulations provides "up front" the specific requirements that all projects must meet. If the prescribed pre-construction analyses show a likelihood of significant adverse impact to wildlife and/or historic resources, then permit requirements will include a mitigation

plan. The renewable energy PBRs do not abrogate the applicant's need to obtain all other necessary environmental permits. Renewable energy projects with a rated capacity of 5 megawatts and less have few if any substantive PBR requirements (see Section 130 of each PBR regulation). For additional information, or to request a pre-application meeting for a proposed renewable project, contact Carol Wampler (Central Office) at 804-698-4579 or [carol.wampler@deq.virginia.gov](mailto:carol.wampler@deq.virginia.gov). Please also consult DEQ's website at <http://www.deq.virginia.gov/Programs/RenewableEnergy.aspx>.

**11. Sewerage Regulations.** Sewage treatment works must be designed in accordance with the Department of Environmental Quality's Sewage Collection and Treatment (SCAT) Regulations (12 VAC 5-581). Information concerning regulations may be found at the Department of Environmental Quality Wastewater Engineering web site: <http://www.deq.virginia.gov/wastewater/homepage.html>

Thank you for your inquiry. We appreciate your interest in complying with Virginia's environmental legislation. If you have any further questions please do not hesitate to call Teresa Frazier at (276) 676-4805.

Sincerely,

A handwritten signature in blue ink that reads "Allen J. Newman". The signature is written in a cursive style with a long horizontal stroke at the end.

Allen J. Newman, P.E.  
Water Permit Manager

cc. file

## Jimmy Adkins

---

**From:** Jimmy Adkins [jadkins@lenowisco.org]  
**Sent:** Thursday, July 31, 2014 2:10 PM  
**To:** 'Frazier, Teresa (DEQ)'  
**Subject:** RE: Environmental Review: Lower Guest River Sewer Line Extension Project

I've got it and works great! No worries and an easy fix.

You remain as awesome as ever! Thanks a bushel!

Jimmy

---

**From:** Frazier, Teresa (DEQ) [mailto:Teresa.Frazier@deq.virginia.gov]  
**Sent:** Thursday, July 31, 2014 2:05 PM  
**To:** Jimmy Adkins  
**Subject:** RE: Environmental Review: Lower Guest River Sewer Line Extension Project

Oops. I had a little trouble with it. Sorry for your trouble.  
Second try! Please let me know if this one works.

---

**From:** Jimmy Adkins [mailto:jadkins@lenowisco.org]  
**Sent:** Thursday, July 31, 2014 2:03 PM  
**To:** Frazier, Teresa (DEQ)  
**Subject:** RE: Environmental Review: Lower Guest River Sewer Line Extension Project

Great afternoon, ma'am!

Thank you so much for completing this for me. Good news is I received the file. Bad news is it wouldn't open. It may have something to do with it being saved with two file extensions. It's (.docx.pdf) and I kept getting a "could not read file error 109" code. I forwarded it to another staff member here and it did the same thing.

It may be as simple as resaving the original. My apologies.

Jimmy

---

**From:** Frazier, Teresa (DEQ) [mailto:Teresa.Frazier@deq.virginia.gov]  
**Sent:** Thursday, July 31, 2014 1:44 PM  
**To:** Jimmy Adkins  
**Subject:** RE: Environmental Review: Lower Guest River Sewer Line Extension Project

Jimmy,  
The SWRO environmental impact response is attached.  
Please acknowledge receipt for my records.

Have a great day!

 Teresa Frazier

DEQ Southwest Regional Office | 276.676.4805 | [Teresa.Frazier@deq.virginia.gov](mailto:Teresa.Frazier@deq.virginia.gov)  
355-A Deadmore Street, Abingdon, VA 24210

<http://www.deq.virginia.gov>

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**From:** Jimmy Adkins [<mailto:jadkins@lenowisco.org>]  
**Sent:** Wednesday, July 30, 2014 3:07 PM  
**To:** Frazier, Teresa (DEQ)  
**Subject:** Environmental Review: Lower Guest River Sewer Line Extension Project

Good afternoon, Ms. Frazier.

Please find attached the scope letter, project abstract, topographic map, and satellite image of project area for the Lower Guest River Sewer Line Extension Project.

This will be a construction ready application to DHCD in September. What that entails is complete design/specs complete and VDH approved, permits received and the environmental review completed.

I certainly hope the opportunity arises for your agency's response to be processed and returned within the 30 day request period. If there is any further information you may need, please let me know.

I greatly appreciate your time and consideration in helping us in this expedited process.

*Jimmy*

Jimmy Adkins  
Regional Planner  
LENOWISCO  
PO Box 366  
Duffield, VA 24244  
276.431.2206 ext 16



\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10177 (20140730)  
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The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10183 (20140731)  
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The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

## Jimmy Adkins

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**From:** Poore, Annette J NAO [Annette.J.Poore@usace.army.mil]  
**Sent:** Friday, August 01, 2014 4:11 PM  
**To:** Jimmy Adkins  
**Subject:** Score(\*\*\*\*\*)RE: [EXTERNAL] Lower Guest River Sewer Line Extension Environmental Review (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

The Corps of Engineers has jurisdiction over certain activities undertaken in waters of the United States (WOUS - waterways and/or wetlands) as regulated under the Rivers and Harbors Act of 1899 and/or the Clean Water Act of 1972. Any work in jurisdictional areas which is considered structure, fill (dirt, rock, mulch, etc), dredging and/or excavation may require a Department of the Army permit and possibly authorization by state and local authorities. Activities that involve discharges of dredged or fill material into WOUS require detailed project plans along with site specific information to determine appropriate permitting.

Any work at this location may require a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ) and/or a permit from the Virginia Marine Resources Commission (VMRC) as well as authorization from your local authorities. You may contact the DEQ at (276) 676-4800 and VMRC at (757) 247-2200 regarding their permitting requirements.

You are encouraged to design your project to avoid impacts to WOUS. If you cannot avoid impacts to WOUS, you should minimize impacts to jurisdictional areas to the maximum extent practicable. (For example, on a utility line project, you should consider directional drill or boring under the stream bed and/or wetlands to avoid impacts. If neither of those alternatives are practical, you should design your work to comply with the Corps nationwide permit number 12 for utility line activities to ensure project impacts to WOUS are minimal.)

Southwest Virginia rivers are home to many endangered and threatened species and critical habitat has been designated for several of those animals. You are encouraged to coordinate any activity that would involve a discharge of dredged or fill material into WOUS with the resource agencies (U.S. Fish and Wildlife Service, Virginia Department of Game and Inland Fisheries) early in your planning process and allocate sufficient time and funding for any species surveys they might request.

The Norfolk District Corps of Engineers issued a regional condition that any discharge of dredged and/or fill material authorized by the nationwide permits which would occur in waterways designated critical habitat or wetlands contiguous to those waterways would require notification to the Corps of Engineers. The following waters that may be in the vicinity of your project area are subject to this requirement:

Clinch River - from the Tennessee-Virginia state line upstream to Route 632 at Pisgah in Tazewell County and one mile upstream of the mouth of any tributary adjacent to this portion of the River, the Little River to its confluence with Maiden Spring Creek, and one mile upstream of the mouth of any tributary adjacent to this portion of Little River.

Notification must be in writing and include the following information (the joint permit application may also be used - be sure to mark it with the letters PCN at the top of the first page):

- a. Name, address, and telephone number of the prospective permittee.
- b. Location of the proposed project.
- c. Vicinity map and project drawings (plan view, profile, & cross section).

- d. Brief description of the proposed project and the project purpose.
- e. Where required by the terms of the nationwide permit, a delineation of affected special aquatic sites, including wetlands.

When all required information is received by the appropriate office, the Corps will notify the prospective permittee within 45 days whether the project may proceed under the nationwide permit or whether an individual permit is required. If, after reviewing the notification, the District Engineer determines that the proposed activity would have more than a minimal individual or cumulative adverse impact on the aquatic environment or otherwise may be contrary to the public interest, then she will either condition the nationwide permit authorization to reduce or eliminate the adverse impacts, or notify the prospective permittee that the activity is not authorized by the nationwide permit and provide the permittee with instructions on how to seek authorization under an individual permit. If the permittee is not notified otherwise within the 45-day period, the permittee may begin the activity.

Notifications should be mailed to: U. S. Army Corps of Engineers, Clinch Valley Field Office, POB 338, Abingdon, Virginia 24210.

In addition, there are several small streams in the vicinity of your project boundaries that may be subject to our regional condition regarding trout waters. Coordination with the Virginia Department of Game and Inland Fisheries will be required for any crossings of these waterways. In addition to strict adherence to erosion and sedimentation controls, you should anticipate we will impose time of year restrictions on any permits for crossings of these streams.

Please note that any mechanized landclearing, stumping or grading (such as with a bulldozer and/or root rake) and/or filling in jurisdictional areas will require a Department of the Army permit prior to such work occurring. This letter does not authorize the placement of dredged or fill material or mechanized land clearing in wetlands or waters of the United States. The term discharge of dredged material is defined as "any addition, including any redeposit, of dredged material, including excavated material, into waters of the United States which is incidental to any activity including mechanized landclearing, ditching, channelization, or other excavation (33 CFR Part 232.2(1)(iii)).

Annette Poore  
Norfolk District, Corps of Engineers  
Clinch Valley Regulatory Field Office  
P. O. Box 338  
Abingdon, VA 24212  
276-623-5259

-----Original Message-----

From: Jimmy Adkins [mailto:jadkins@lenowisco.org]  
Sent: Wednesday, July 30, 2014 3:04 PM  
To: Poore, Annette J NAO  
Subject: [EXTERNAL] Lower Guest River Sewer Line Extension Environmental Review

Good afternoon, Ms. Poore.

Please find attached the scope letter, project abstract, topographic map, and satellite image of project area for the Lower Guest River Sewer Line Extension Project.

This will be a construction ready application to DHCD in September. What that entails is complete design/specs complete and VDH approved, permits received and the environmental review completed.

I certainly hope the opportunity arises for your agency's response to be processed and returned within the 30 day request period. If there is any further information you may need, please let me know.

I greatly appreciate your time and consideration in helping us in this expedited process.

Jimmy

Jimmy Adkins

Regional Planner

LENOWISCO

PO Box 366

Duffield, VA 24244

276.431.2206 ext 16

LNWSlogo365-2sm

Information from ESET NOD32 Antivirus, version of virus signature database 10177  
(20140730)

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<http://www.eset.com>

Classification: UNCLASSIFIED

Caveats: NONE

Information from ESET NOD32 Antivirus, version of virus signature database 10190  
(20140801)

## Jimmy Adkins

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**From:** Necessary, Donny Jr. (VDOT) [Donald.Necessary@VDOT.Virginia.gov]  
**Sent:** Thursday, July 31, 2014 8:15 AM  
**To:** Jimmy Adkins  
**Cc:** Sams, Jeff (VDOT); Heath, Pamela, P.E. (VDOT)  
**Subject:** FW: Environmental Review: Lower Guest River Sewer Line Extension Project  
**Attachments:** Lower Guest River Scope VDOT letter.pdf; Lower Guest River Environmental Review Project Abstract.pdf; Lower Guest River EA Map.pdf; Lower\_Gst\_Rivr\_Swr.pdf

Jimmy:

The Virginia Department of Transportation Planning and Investment Management Division has reviewed the attached sewer project in the Lower Guest River area of Wise County. The project will have no impact to transportation infrastructure except during construction. Below find several links to standard requirements which must be addressed in the design:

- All above ground items in the right of way shall be installed outside the clear zone of the roadway or protected by appropriate guardrail treatment. The guardrail installation guidelines can be found at the following web site: [http://insidenvdot/sites/CRL/Manuals/Guardrail%20Installation%20Training%20Manual%20\(GRIT\).pdf](http://insidenvdot/sites/CRL/Manuals/Guardrail%20Installation%20Training%20Manual%20(GRIT).pdf) Please refer to Page 2-3 for the clear zone guidelines.
- All construction within the right of way must be in compliance with the Virginia Work Area Protection Manual. A link to the manual can be found at: [http://www.virginiadot.org/business/resources/WAPM-2005-Revised10\\_05.pdf](http://www.virginiadot.org/business/resources/WAPM-2005-Revised10_05.pdf)
- Land Use Permits and associated costs are outlined in the Land Use Manual. A link to land permits is as follows <http://www.virginiadot.org/business/bu-landUsePermits.asp>

Mr. Jeff Sams Bristol District Permits Specialist (276) 321-2804 from the Bristol Planning and Investment Division should be engaged early in the planning, design, and construction process in order to alleviate potential impacts.

Should you have any questions, please advise.

*D. A. "Donny" Necessary, Jr.*

Virginia Department of Transportation  
Bristol District Planner  
870 Bonham Road  
Bristol, VA

Office (276) 669-9956  
Cell (276) 591-9545

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**From:** Jimmy Adkins [mailto:[jadkins@lenowisco.org](mailto:jadkins@lenowisco.org)]  
**Sent:** Wednesday, July 30, 2014 3:09 PM  
**To:** Necessary, Donny Jr. (VDOT)  
**Subject:** Environmental Review: Lower Guest River Sewer Line Extension Project

Good afternoon, ~~Mr. Necessary~~.....Donny.

Please find attached the scope letter, project abstract, topographic map, and satellite image of project area for the Lower Guest River Sewer Line Extension Project.

This will be a construction ready application to DHCD in September. What that entails is complete design/specs complete and VDH approved, permits received and the environmental review completed.

I certainly hope the opportunity arises for your agency's response to be processed and returned within the 30 day request period. If there is any further information you may need, please let me know.

I greatly appreciate your time and consideration in helping us in this expedited process.

*Jimmy*

Jimmy Adkins  
Regional Planner  
LENOWISCO  
PO Box 366  
Duffield, VA 24244  
276.431.2206 ext 16



\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10177 (20140730)  
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The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10182 (20140731)  
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The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

## Jimmy Adkins

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**From:** Madden, Jeff (MRC) [Jeff.Madden@mrc.virginia.gov]  
**Sent:** Tuesday, September 16, 2014 3:18 PM  
**To:** Jimmy Adkins  
**Subject:** RE: Environmental Review: Lower Guest River Sewer Line Extension Project

Thank you for allowing us to comment on you proposed project. The VMRC is responsible for issuing permits for encroachments channelward of ordinary high water. Should the scope of your project include encroachment over State-owned submerged lands, a permit may be required.

---

**From:** Jimmy Adkins [mailto:jadkins@lenowisco.org]  
**Sent:** Monday, September 15, 2014 2:13 PM  
**To:** Madden, Jeff (MRC)  
**Subject:** FW: Environmental Review: Lower Guest River Sewer Line Extension Project

Good afternoon, Jeff.

I believe this one may have fell through the cracks. I couldn't find a VMRC response while compiling the Environmental Review Record. Would you mind to send me your response? Thanks a bushel!

Jimmy

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**From:** Jimmy Adkins [mailto:jadkins@lenowisco.org]  
**Sent:** Wednesday, July 30, 2014 3:11 PM  
**To:** 'Madden, Jeff (MRC)'  
**Subject:** Environmental Review: Lower Guest River Sewer Line Extension Project

Good afternoon, Mr. Madden.

Please find attached the scope letter, project abstract, topographic map, and satellite image of project area for the Lower Guest River Sewer Line Extension Project.

This will be a construction ready application to DHCD in September. What that entails is complete design/specs complete and VDH approved, permits received and the environmental review completed.

I certainly hope the opportunity arises for your agency's response to be processed and returned within the 30 day request period. If there is any further information you may need, please let me know.

I greatly appreciate your time and consideration in helping us in this expedited process.

*Jimmy*

Jimmy Adkins  
Regional Planner  
LENOWISCO  
PO Box 366  
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Columbus

Appalachian Mountains

Philadelphia

Delaware Bay

Maryland

Delaware

Washington

Chesapeake Bay

West Virginia

Richmond

Virginia

Virginia Beach

Project Area

Blue Ridge Mountains

Greensboro

Roanoke Island

Knoxville

North Carolina

Pamlico Sound

Charlotte

© 2015 Google  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
Image Landsat

Google earth

Imagery Date: 4/9/2013 37°41'54.65" N 79°17'01.43" W elev 999 ft eye alt 448.88 mi

## Jimmy Adkins

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**From:** Freyman, Jeannine - NRCS, Christiansburg, VA [Jeannine.Freyman@va.usda.gov]  
**Sent:** Monday, August 04, 2014 11:40 AM  
**To:** Jimmy Adkins  
**Subject:** RE: Environmental Review: Lower Guest River Sewer Line Extension Project  
**Attachments:** Phase\_II\_\_EisenhowerRoad\_LowerGuestRvier\_CPA106.pdf; Phase\_III\_\_Wells-Adam\_LowerGuestRvier\_CPA106.pdf; Phase\_I\_\_Wells-BoonesRoad\_LowerGuestRvier\_CPA106.pdf

Good Morning Jimmy!

I hope this finds you doing well!

Please find attached for the above Project three completed CPA\_106 FPPA determinations.

Best regards,

Jeannine C. Freyman  
Soil Resource Specialist  
USDA NRCS - Area Office  
75 Hampton Blvd.  
Christiansburg, VA 24073  
(540)381-4221 ext. 124

---

**From:** Jimmy Adkins [mailto:jadkins@lenowisco.org]  
**Sent:** Wednesday, July 30, 2014 3:06 PM  
**To:** Freyman, Jeannine - NRCS, Christiansburg, VA  
**Subject:** Environmental Review: Lower Guest River Sewer Line Extension Project

Good afternoon, Ms. Freyman.

Please find attached the scope letter, project abstract, topographic map, and satellite image of project area for the Lower Guest River Sewer Line Extension Project.

This will be a construction ready application to DHCD in September. What that entails is complete design/specs complete and VDH approved, permits received and the environmental review completed.

I certainly hope the opportunity arises for your agency's response to be processed and returned within the 30 day request period. If there is any further information you may need, please let me know.

I greatly appreciate your time and consideration in helping us in this expedited process.

*Jimmy*

Jimmy Adkins  
Regional Planner  
LENOWISCO  
PO Box 366  
Duffield, VA 24244  
276.431.2206 ext 16

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 1 of _____
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1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
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	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor				

<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>	
--	--

A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				

<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>	
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	Maximum Points				
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1. Area in Nonurban Use	15				
2. Perimeter in Nonurban Use	10				
3. Percent Of Corridor Being Farmed	20				
4. Protection Provided By State And Local Government	20				
5. Size of Present Farm Unit Compared To Average	10				
6. Creation Of Nonfarmable Farmland	25				
7. Availability Of Farm Support Services	5				
8. On-Farm Investments	20				
9. Effects Of Conversion On Farm Support Services	25				
10. Compatibility With Existing Agricultural Use	10				
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>				

<b>PART VII (To be completed by Federal Agency)</b>	
---	--

Relative Value Of Farmland (From Part V)	100				
--	-----	--	--	--	--

Total Corridor Assessment (From Part VI above or a local site assessment)	160				
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<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>				
--	------------	--	--	--	--

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

## CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points  
90 to 20 percent - 14 to 1 point(s)  
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points  
90 to 20 percent - 9 to 1 point(s)  
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points  
90 to 20 percent - 19 to 1 point(s)  
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points  
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)  
As large or larger - 10 points  
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points  
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)  
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points  
Some required services are available - 4 to 1 point(s)  
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points  
Moderate amount of on-farm investment - 19 to 1 point(s)  
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points  
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)  
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points  
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)  
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

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**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 1 of _____
---	------------------------------------	---------------------

1. Name of Project	5. Federal Agency Involved
--------------------	----------------------------

2. Type of Project	6. County and State
--------------------	---------------------

<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
--	----------------------------------	---------------------------

3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
---	--

5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %
------------------	---	--

8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
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	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor				

<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>	
--	--

A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				

<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>	
--	--

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points			
1. Area in Nonurban Use	15			
2. Perimeter in Nonurban Use	10			
3. Percent Of Corridor Being Farmed	20			
4. Protection Provided By State And Local Government	20			
5. Size of Present Farm Unit Compared To Average	10			
6. Creation Of Nonfarmable Farmland	25			
7. Availability Of Farm Support Services	5			
8. On-Farm Investments	20			
9. Effects Of Conversion On Farm Support Services	25			
10. Compatibility With Existing Agricultural Use	10			
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>			

<b>PART VII (To be completed by Federal Agency)</b>	
---	--

Relative Value Of Farmland (From Part V)	100			
Total Corridor Assessment (From Part VI above or a local site assessment)	160			
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>			

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
-----------------------	---	-----------------------	--

5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
---	------

**NOTE: Complete a form for each segment with more than one Alternate Corridor**

## CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points  
90 to 20 percent - 14 to 1 point(s)  
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points  
90 to 20 percent - 9 to 1 point(s)  
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points  
90 to 20 percent - 19 to 1 point(s)  
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points  
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)

As large or larger - 10 points  
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points  
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)  
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points  
Some required services are available - 4 to 1 point(s)  
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points  
Moderate amount of on-farm investment - 19 to 1 point(s)  
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points  
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)  
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points  
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)  
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

---

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 1 of _____
---	------------------------------------	---------------------

1. Name of Project	5. Federal Agency Involved
--------------------	----------------------------

2. Type of Project	6. County and State
--------------------	---------------------

<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
--	----------------------------------	---------------------------

3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
---	--

5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %
------------------	---	--

8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
--	---	---

<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
---	---	--	--	--

	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor				

<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>	
--	--

A. Total Acres Prime And Unique Farmland	
B. Total Acres Statewide And Local Important Farmland	
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	

<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>	
--	--

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points	Corridor A	Corridor B	Corridor C	Corridor D
1. Area in Nonurban Use	15				
2. Perimeter in Nonurban Use	10				
3. Percent Of Corridor Being Farmed	20				
4. Protection Provided By State And Local Government	20				
5. Size of Present Farm Unit Compared To Average	10				
6. Creation Of Nonfarmable Farmland	25				
7. Availability Of Farm Support Services	5				
8. On-Farm Investments	20				
9. Effects Of Conversion On Farm Support Services	25				
10. Compatibility With Existing Agricultural Use	10				
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>				

<b>PART VII (To be completed by Federal Agency)</b>	
---	--

Relative Value Of Farmland (From Part V)	100				
Total Corridor Assessment (From Part VI above or a local site assessment)	160				
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>				

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
-----------------------	---	-----------------------	--

5. Reason For Selection:
--------------------------

Signature of Person Completing this Part:	DATE
---	------

**NOTE: Complete a form for each segment with more than one Alternate Corridor**

## CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points  
90 to 20 percent - 14 to 1 point(s)  
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points  
90 to 20 percent - 9 to 1 point(s)  
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points  
90 to 20 percent - 19 to 1 point(s)  
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points  
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)  
As large or larger - 10 points  
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points  
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)  
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points  
Some required services are available - 4 to 1 point(s)  
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points  
Moderate amount of on-farm investment - 19 to 1 point(s)  
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points  
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)  
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

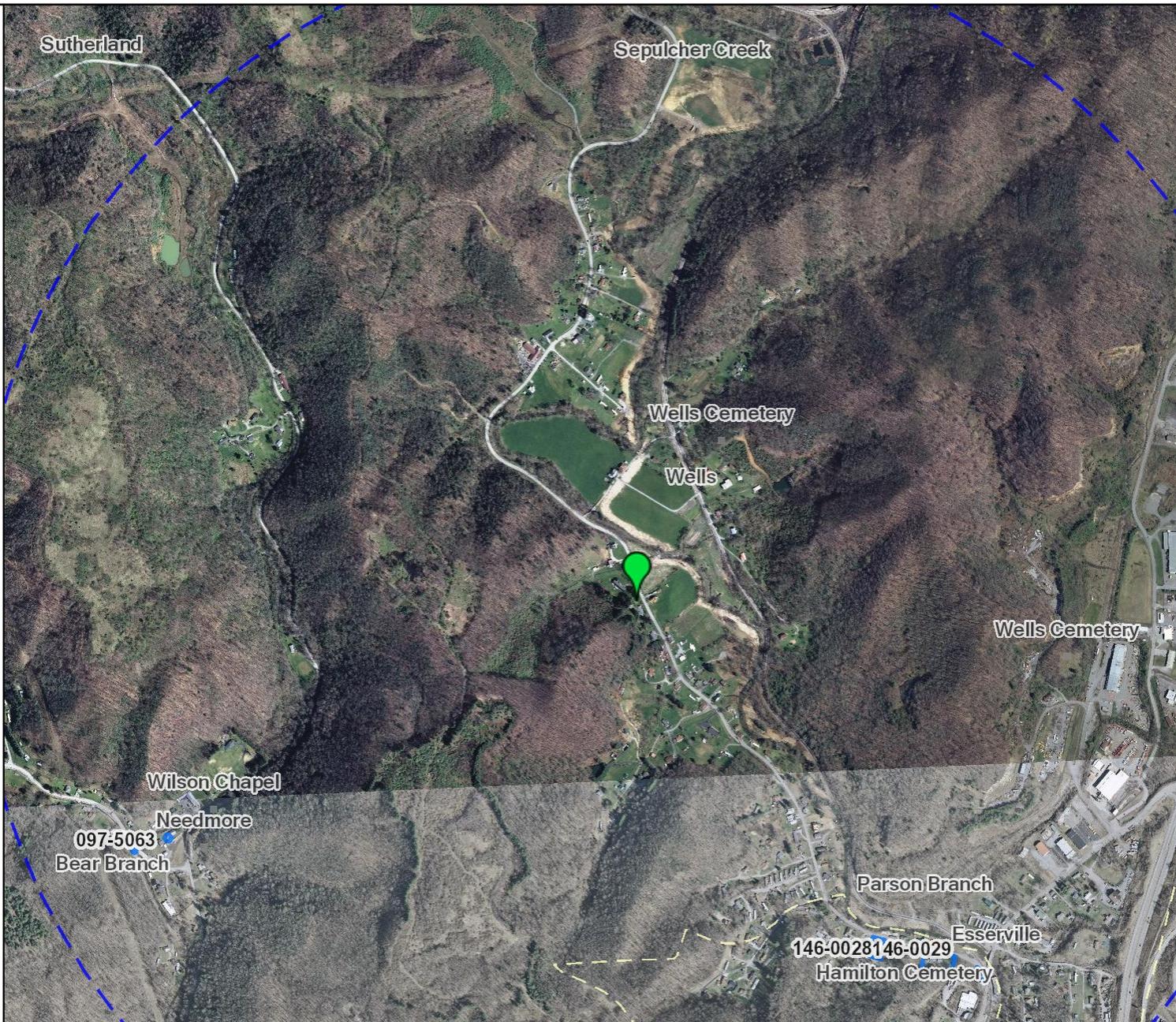
Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points  
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)  
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

---



**Legend**

-  Architecture Resources
- Architecture Labels
-  Individual Historic District Properties
-  Archaeological Resources
- Archaeology Labels
-  USGS GIS Place names
-  County Boundaries



**Title: Lower Guest River**

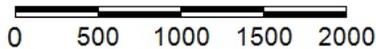
**Date: 8/7/2014**

*DISCLAIMER: Records of the Virginia Department of Historic Resources (DHR) have been gathered over many years from a variety of sources and the representation depicted is a cumulative view of field observations over time and may not reflect current ground conditions. The map is for general information purposes and is not intended for engineering, legal or other site-specific uses. Map may contain errors and is provided "as-is". More information is available in the DHR Archives located at DHR's Richmond office.*

*Notice if AE sites: Locations of archaeological sites may be sensitive the National Historic Preservation Act (NHPA), and the Archaeological Resources Protection Act (ARPA) and Code of Virginia §2.2-3705.7 (10). Release of precise locations may threaten archaeological sites and historic resources.*



Feet



1:18,056 / 1"=1,505 Feet

## Jimmy Adkins

---

**From:** Lee, Amanda (DHR) [amanda.lee@dhr.virginia.gov]  
**Sent:** Wednesday, September 10, 2014 10:10 AM  
**To:** Jimmy Adkins  
**Subject:** Lower Guest River Sewer Line Extension Project, Wise County, DHR File No. 2014-3561 | e-Mail #00834  
**Attachments:** 2014-3561\_10Sept2014.pdf

Dear Mr. Adkins,

Please see the attached letter for the above referenced project. A hard copy will not follow. Retain the attachment for your records.

Sincerely,  
M. Amanda Lee

---

**M. Amanda Lee**, Historic Preservationist  
Division of Review & Compliance  
Virginia Department of Historic Resources  
2801 Kensington Avenue  
Richmond, VA 23221  
P: 804.482.6092  
F: 804.367.2391

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10395 (20140910)  
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The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>



# COMMONWEALTH of VIRGINIA

## Department of Historic Resources

2801 Kensington Avenue, Richmond, Virginia 23221

Molly Joseph Ward  
*Secretary of Natural Resources*

Julie V. Langan  
*Director*

Tel: (804) 367-2323  
Fax: (804) 367-2391  
[www.dhr.virginia.gov](http://www.dhr.virginia.gov)

September 10, 2014

Mr. Jimmy Adkins  
Regional Planner  
LENOWISCO  
P.O. Box 366  
Duffield, VA 24244

Re: Lower Guest Rive Sewer Line Project  
Wise County  
DHR File No. 2014-3561

Dear Mr. Adkins,

The Virginia Department of Historic Resources (DHR) received information regarding the above referenced project for our review and comment pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended.

DHR understands that the proposed project consists of approximately 7,250 linear feet of 8-inch gravity sewer collection line and applicable appurtenances to connect 52 residential customers to the Guest River service area interceptor. Based upon a review of the information provided, DHR recommends no historic properties affected by the proposed project.

Sincerely,

M. Amanda Lee, Historic Preservationist  
Division of Review and Compliance

Administrative Services  
10 Courthouse Ave.  
Petersburg, VA 23803  
Tel: (804) 862-6408  
Fax: (804) 862-6196

Capital Region Office  
2801 Kensington Avenue  
Richmond, VA 23221  
Tel: (804) 367-2323  
Fax: (804) 367-2391

Tidewater Region Office  
14415 Old Courthouse Way  
2<sup>nd</sup> Floor  
Newport News, VA 23608  
Tel: (757) 886-2818  
Fax: (757) 886-2808

Western Region Office  
962 Kime Lane  
Salem, VA 24153  
Tel: (540) 387-5443  
Fax: (540) 387-5446

Northern Region Office  
5357 Main Street  
PO Box 519  
Stephens City, VA 22655  
Tel: (540) 868-7029  
Fax: (540) 868-7033



Department of Conservation & Recreation

CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

Web Project ID: WEB0000002393

Client Project Number:

***PROJECT INFORMATION***

---

TITLE: Lower Guest River Sewer Line Extension Project

DESCRIPTION: Project consists of approximately 7,250 linear feet of 8-inch gravity sewer collection line and applicable appurtenances to connect 52 residents to public sewer.

EXISTING SITE CONDITIONS: Previously disturbed

QUADRANGLES: Wise, Norton

COUNTIES: Wise

Latitude/Longitude (DMS): 36°57'39.2237"N / 82°37'12.9609"W

Acreage: 75 acres

Comments:

***REQUESTOR INFORMATION***

---

Priority: Y

Tier Level: Tier II

Tax ID:

Contact Name: Jimmy Adkins

Company Name: LENOWISCO Planning District Commission

Address: 372 Technology Trail Ln

City: Duffield

State: VA

Zip: 24244

Phone: 2764312206

Fax: 2764312208

Email: [jadkins@lenowisco.org](mailto:jadkins@lenowisco.org)

Conservation Site	Site Type	Brank	Acreage	Listed Species Presence
	GLNHR	NA	0	NL
	GLNHR	NA	0	SL
PICKEM MOUNTAIN	Conservation Site	B4	783	NL

Natural Heritage Screening Features within Search Radius

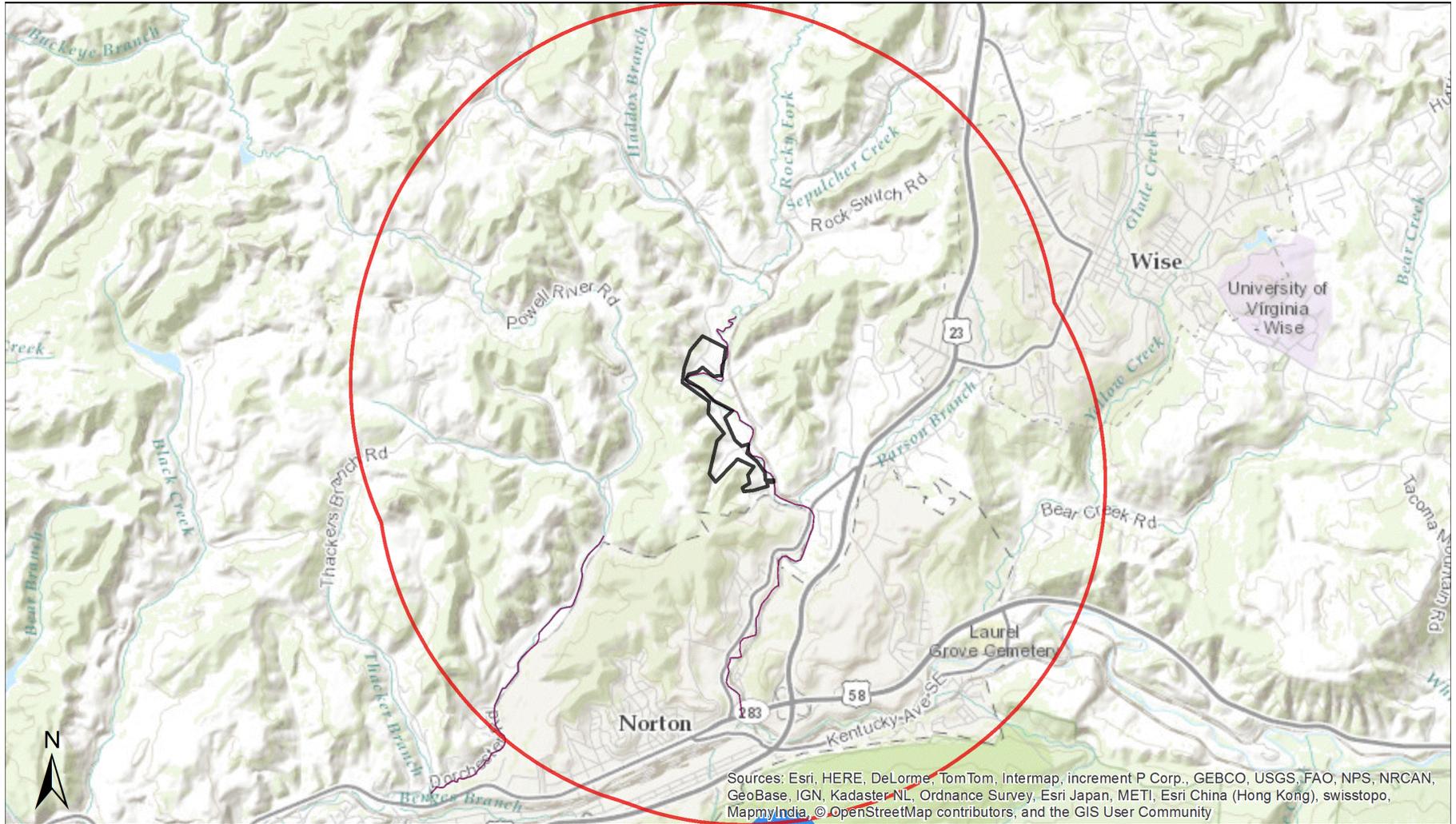
Site Name	Group Name	Common Name	Scientific Name	GRANK	SRANK	Fed Status	State Status	EO Rank	Last Obs Date	Precision
	Vertebrate Animal	Tangerine Darter	Percina aurantiaca	G4	S2S3			H		M
	Invertebrate Animal	Tennessee Heelsplitter	Lasmigona holstonia	G3	S1		LE	H		M

Natural Heritage Resources within Search Radius

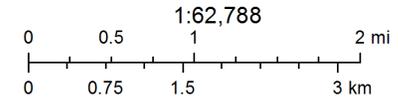
Intersecting Predictive Models

Predictive Model Results

# Lower Guest River Sewer Line Extension Project



- Project Area
- Buffered Project Area
- Conservation Site
- GLNHR
- SCU
- NH Screening Features



Quads: Wise, Norton  
 Counties: Wise

Company: LENOWISCO Planning District Comm  
 Lat/Long: 365739 / -823712



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF CONSERVATION AND RECREATION

The project mapped as part of this report has been searched against the Department of Conservation and Recreation's Biotics Data System for occurrences of natural heritage resources from the area indicated for this project. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics files, NATURAL HERITAGE RESOURCES HAVE BEEN DOCUMENTED within two miles of the indicated project boundaries and/or POTENTIAL HABITAT FOR NATURAL HERITAGE RESOURCES intersect the project area.

You have submitted this project to DCR for a more detailed review for potential impacts to natural heritage resources. DCR will review the submitted project to identify the specific natural heritage resources in the vicinity of the proposed project. Using the expertise of our biologists, DCR will evaluate whether your specific project is likely to impact these resources, and if so how. DCR's response will indicate whether any negative impacts are likely and, if so, make recommendations to avoid, minimize and/or mitigate these impacts. If the potential negative impacts are to species that are state- or federally-listed as threatened or endangered, DCR will also recommend coordination with the appropriate regulatory agencies: the Virginia Department of Game and Inland Fisheries for state-listed animals, the Virginia Department of Agriculture and Consumer Services for state-listed plants and insects, and the United States Fish and Wildlife Service for federally listed plants and animals. If your project is expected to have positive impacts we will report those to you with recommendations for enhancing these benefits.

**There will be a charge for this service for "for profit companies": \$60, plus an additional charge of \$35 for 1-5 occurrences and \$60 for 6 or more occurrences.**

Please allow up to 30 days for a response, unless you requested a priority response (in 5 business days) at an additional surcharge of \$500. An invoice will be provided with your response.

We will review the project based on the information you included in the Project Info submittal form, which is included in this report. Also any additional information including photographs, survey documents, etc. attached during the project submittal process and/or sent via email referencing the project title (from the first page of this report).

Thank you for submitting your project for review to the Virginia Natural Heritage Program through the NH Data Explorer. Should you have any questions or concerns about DCR, the Data Explorer, or this report, please contact the Natural Heritage Project Review Unit at 804-371-2708.

## Jimmy Adkins

---

**From:** nhreview (DCR) [nhreview@dcr.virginia.gov]  
**Sent:** Wednesday, September 03, 2014 5:45 PM  
**To:** jadkins@Lenowisco.org  
**Cc:** ProjectReview (DGIF)  
**Subject:** Lower Guest River Sewer Line Extension Project  
**Attachments:** 67401, LPD, Lower Guest River Sewer Line Extension Project.pdf

Mr. Adkins,

Please find attached the DCR-DNH comments for the above referenced project. The comments are in pdf format and can be printed for your records. Also species rank information is available at [http://www.dcr.virginia.gov/natural\\_heritage/help.shtml](http://www.dcr.virginia.gov/natural_heritage/help.shtml) for your reference.

Thank you for the opportunity to comment on this project.

Rene'

S. Rene' Hypes  
Project Review Coordinator  
Department of Conservation and Recreation  
Division of Natural Heritage  
600 East Main Street, 24<sup>th</sup> Floor  
Richmond, Virginia 23219  
304-371-2708 (phone)  
804-371-2674 (fax)  
[rene.hypes@dcr.virginia.gov](mailto:rene.hypes@dcr.virginia.gov)



**Conserving VA's Biodiversity through  
Inventory, Protection and Stewardship**  
[www.dcr.virginia.gov/natural\\_heritage](http://www.dcr.virginia.gov/natural_heritage)  
[Virginia Natural Heritage Program on Facebook](#)

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10365 (20140904)  
\_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

Molly Joseph Ward  
Secretary of Natural Resources

Clyde E. Cristman  
Director



Joe Elton  
Deputy Director of Operations

Rochelle Altholz  
Deputy Director of Administration  
and Finance

**COMMONWEALTH of VIRGINIA**  
**DEPARTMENT OF CONSERVATION AND RECREATION**

600 East Main Street, 24<sup>th</sup> Floor  
Richmond, Virginia 23219  
(804)786-6124

September 3, 2014

Jimmy Adkins  
Lenowisco Planning District Commission  
372 Technology Trail Lane  
Duffield, VA 24244

Re: Lower Guest River Sewer Line Extension Project

Dear Mr. Adkins:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information in our files, the Tangerine darter (*Percina aurantiaca*, G4/S2S3/NL/NL) has been historically documented in the Guest River. The Tangerine darter has several disjunct populations distributed in tributaries of the upper Tennessee River in Georgia, North Carolina, Tennessee, and Virginia (NatureServe, 2009). In Virginia, this species inhabits the South and North forks of the Holston River, as well as the Clinch and Powell Rivers (Jenkins and Burkhead). Tangerine darters inhabit clear pools and slow runs of substrate and occasionally found in swifter, shallower areas (Jenkins and Burkhead, 1993).

Threats to the Tangerine darter include population fragmentation by impoundments and water quality degradation.

To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

New and updated information is continually added to Biotics. Please re-submit project information and map for an update on this natural heritage information if the scope of the project changes and/or six months has passed

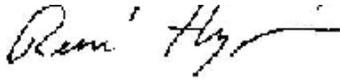
*State Parks • Soil and Water Conservation • Outdoor Recreation Planning  
Natural Heritage • Dam Safety and Floodplain Management • Land Conservation*

before it is utilized.

The Virginia Department of Game and Inland Fisheries (VDGIF) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from <http://vafwis.org/fwis/> or contact Gladys Cason (804-367-0909 or [Gladys.Cason@dgif.virginia.gov](mailto:Gladys.Cason@dgif.virginia.gov)). This project is located within 2 miles of a documented occurrence of a state listed animal. Therefore, DCR recommends coordination with VDGIF, Virginia's regulatory authority for the management and protection of this or these species to ensure compliance with the Virginia Endangered Species Act (VA ST §§ 29.1-563 – 570).

Should you have any questions or concerns, feel free to contact me at 804-371-2708. Thank you for the opportunity to comment on this project.

Sincerely,

A handwritten signature in cursive script, appearing to read "S. Rene' Hypes".

S. Rene' Hypes  
Project Review Coordinator

CC: Ernie Aschenbach, VDGIF

### Literature Cited

Jenkins, R.E., and N.M. Burkhead. 1993. Freshwater fishes of Virginia. American Fisheries Society, Bethesda, Maryland.

NatureServe. 2009. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available <http://www.natureserve.org/explorer>. (Accessed: June 21, 2010).



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

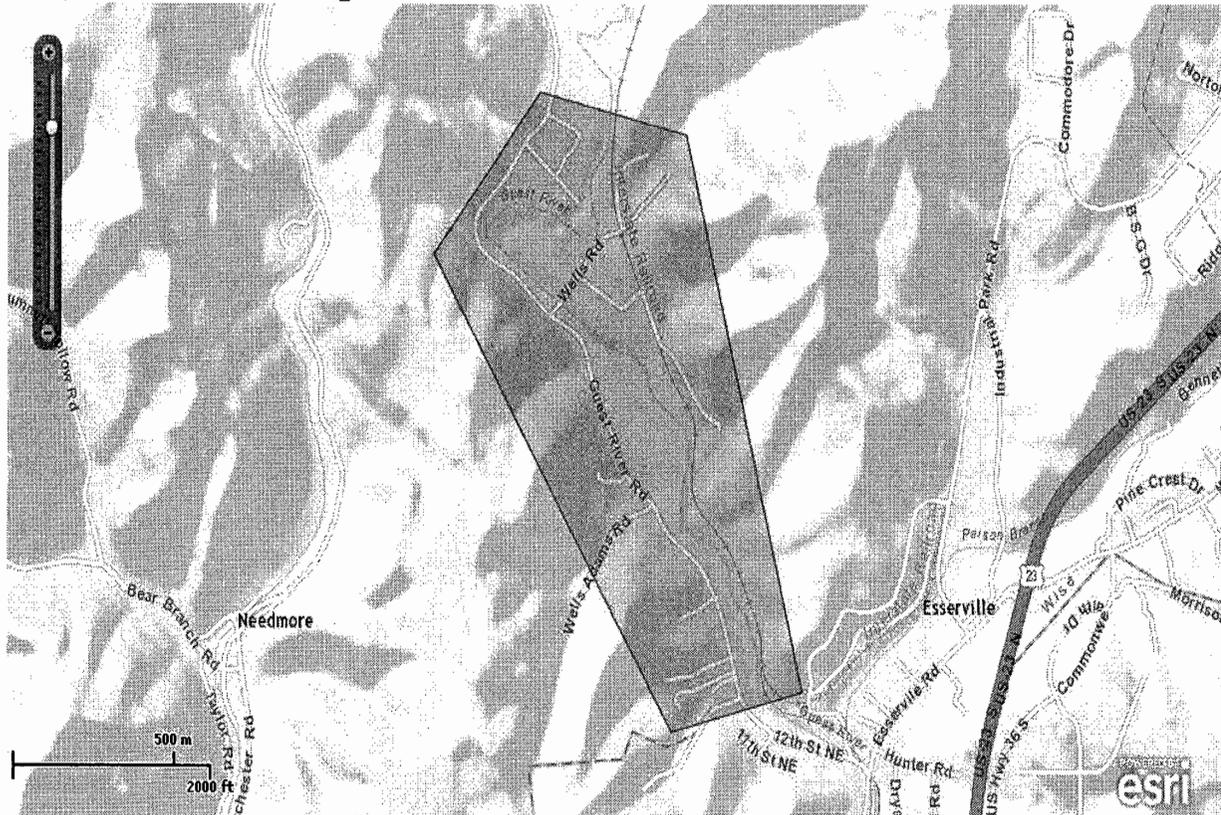
Lower Guest River Sewer Line Extension Project



U.S. Fish and Wildlife Service

## Trust Resources List

### *Project Location Map:*



### *Project Location Measurements:*

Area : 233.0 ac.

Length : 2.6 mi.

### *Project Counties:*

Norton, VA | Wise, VA

### *Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):*

MULTIPOLYGON (((-82.6227118 36.9697505, -82.61765 36.968823, -82.6136589 36.956787, -82.618165 36.9559297, -82.6264476 36.9662514, -82.6227118 36.9697505)))



## Trust Resources List

### ***Project Type:***

Wastewater Pipeline

### ***Endangered Species Act Species List (USFWS Endangered Species Program).***

There are a total of 16 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Clams	Status		Has Critical Habitat	Contact
birdwing pearl mussel ( <i>Lemiox rimosus</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Cracking pearl mussel ( <i>Hemistena lata</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Finerayed pigtoe ( <i>Fusconaia cuneolus</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Fluted kidneyshell ( <i>Ptychobranthus subtentum</i> )	Endangered	<a href="#">species info</a>	Final designated critical habitat	Virginia Ecological Services Field Office
Oyster mussel ( <i>Epioblasma capsaeformis</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered	<a href="#">species info</a>	Final designated critical habitat	Virginia Ecological Services Field Office
Rough rabbitsfoot ( <i>Quadrula cylindrica strigillata</i> )	Endangered	<a href="#">species info</a>	Final designated critical habitat	Virginia Ecological Services Field Office



## Trust Resources List

Sheepnose Mussel ( <i>Plethobasus cyphus</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Shiny pigtoe ( <i>Fusconaia cor</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Slabside Pearlymussel ( <i>Pleuroonia dolabelloides</i> )	Endangered	<a href="#">species info</a>	<a href="#">Final designated critical habitat</a>	Virginia Ecological Services Field Office
Snuffbox mussel ( <i>Epioblasma triquetra</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Spectaclecase (mussel) ( <i>Cumberlandia monodonta</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
<b>Fishes</b>				
Slender chub ( <i>Erimystax cahni</i> ) Population: Entire	Threatened	<a href="#">species info</a>	<a href="#">Final designated critical habitat</a>	Virginia Ecological Services Field Office
<b>Flowering Plants</b>				
Virginia spiraea ( <i>Spiraea virginiana</i> )	Threatened	<a href="#">species info</a>		Virginia Ecological Services Field Office
<b>Mammals</b>				
Gray bat ( <i>Myotis grisescens</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office



## Trust Resources List

northern long-eared Bat <i>(Myotis septentrionalis)</i> Population:	Proposed Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
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### Critical habitats within your project area:

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges (USFWS National Wildlife Refuges Program).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds (USFWS Migratory Bird Program).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

### **Migratory birds of concern that may be affected by your project:**

There are 6 birds on your Migratory birds of concern list. The Division of Migratory Bird Management is in the process of populating migratory bird data with an estimated completion date of August 1, 2014; therefore, the list below may not include all the migratory birds of concern in your project area at this time. While this information is being populated, please contact the Field Office for information about migratory birds in your project area.



## Trust Resources List

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	No	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Swainson's Warbler ( <i>Limnothlypis swainsonii</i> )	Yes	<a href="#">species info</a>	Breeding
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helminthos vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands (USFWS National Wetlands Inventory).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate U.S. Army Corps of Engineers District.

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.



## Trust Resources List

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Pond	<u>PUBHh</u>	0.4439



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Virginia Ecological Services Field Office  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
PHONE: (804)693-6694 FAX: (804)693-9032  
URL: [www.fws.gov/northeast/virginiafield/](http://www.fws.gov/northeast/virginiafield/)

Consultation Tracking Number: 05E2VA00-2014-SLI-2756

July 31, 2014

Project Name: Lower Guest River Sewer Line Extension Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: Lower Guest River Sewer Line Extension Project

## Official Species List

### Provided by:

Virginia Ecological Services Field Office

6669 SHORT LANE

GLOUCESTER, VA 23061

(804) 693-6694

<http://www.fws.gov/northeast/virginiafield/>

**Consultation Tracking Number:** 05E2VA00-2014-SLI-2756

**Project Type:** Wastewater Pipeline

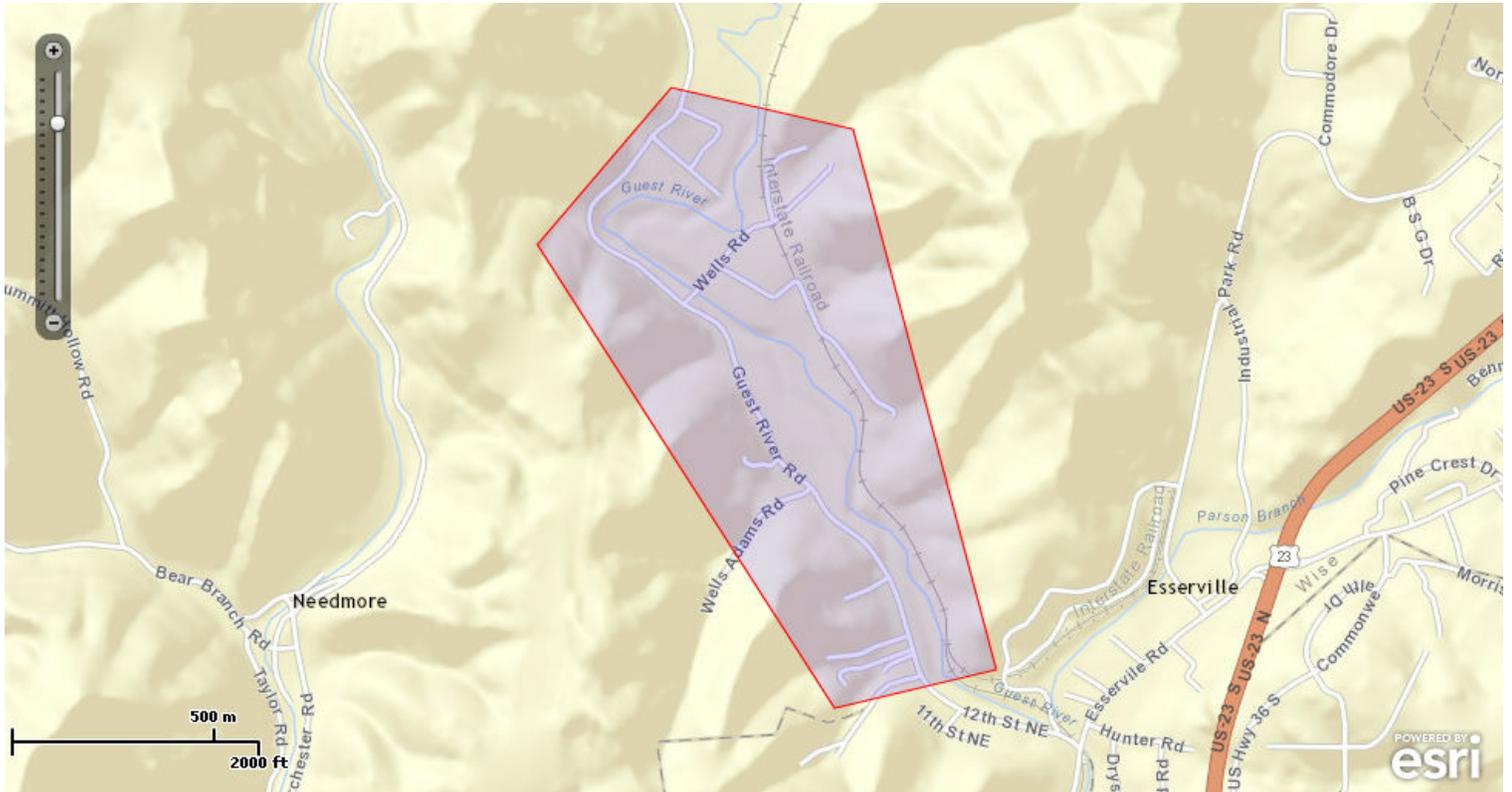
**Project Description:** The project consists of 7,250 Linear Feet of 8-inch gravity sewer collection line with appurtenances to connect 52 residential customers to the Guest River interceptor by gravity.



United States Department of Interior  
Fish and Wildlife Service

Project name: Lower Guest River Sewer Line Extension Project

### Project Location Map:



**Project Location Measurements:** Area : 233.0 ac., Length : 2.6 mi.

**Project Coordinates:** MULTIPOLYGON (((-82.6227118 36.9697505, -82.61765 36.968823, -82.6136589 36.956787, -82.618165 36.9559297, -82.6264476 36.9662514, -82.6227118 36.9697505)))

**Project Counties:** Norton, VA | Wise, VA



United States Department of Interior  
Fish and Wildlife Service

Project name: Lower Guest River Sewer Line Extension Project

## Endangered Species Act Species List

There are a total of 16 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Clams	Status	Has Critical Habitat	Condition(s)
birdwing pearl mussel ( <i>Lemiox rimosus</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered		
Cracking pearl mussel ( <i>Hemistena lata</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered		
Finerayed pigtoe ( <i>Fusconaia cuneolus</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered		
Fluted kidneyshell ( <i>Ptychobranchus subtentum</i> )	Endangered	Final designated	
Oyster mussel ( <i>Epioblasma capsaeformis</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered	Final designated	
Rough rabbitsfoot ( <i>Quadrula cylindrica strigillata</i> )	Endangered	Final designated	



United States Department of Interior  
Fish and Wildlife Service

Project name: Lower Guest River Sewer Line Extension Project

Sheepnose Mussel ( <i>Plethobasus cyphus</i> )	Endangered		
Shiny pigtoe ( <i>Fusconaia cor</i> ) Population: Entire Range; Except where listed as Experimental Populations	Endangered		
Slabside Pearlymussel ( <i>Pleuronaia dolabelloides</i> )	Endangered	Final designated	
Snuffbox mussel ( <i>Epioblasma triquetra</i> )	Endangered		
Spectaclecase (mussel) ( <i>Cumberlandia monodonta</i> )	Endangered		
<b>Fishes</b>			
Slender chub ( <i>Erimystax cahni</i> ) Population: Entire	Threatened	Final designated	
<b>Flowering Plants</b>			
Virginia spiraea ( <i>Spiraea virginiana</i> )	Threatened		
<b>Mammals</b>			
Gray bat ( <i>Myotis grisescens</i> ) Population: Entire	Endangered		
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered		
northern long-eared Bat ( <i>Myotis septentrionalis</i> )	Proposed Endangered		



United States Department of Interior  
Fish and Wildlife Service

Project name: Lower Guest River Sewer Line Extension Project

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Ecological Services  
6669 Short Lane  
Gloucester, Virginia 23061

Date: 08/01/2014

## Online Project Review Certification Letter

Project Name: Lower Guest River Sewer Line Extension Project

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Virginia Field Office online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the referenced project in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA), and the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668c, 54 Stat. 250), as amended (Eagle Act). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA and Eagle Act conclusions. These conclusions resulted in “no effect” and/or “not likely to adversely affect” determinations for listed species and critical habitat and/or “no Eagle Act permit required” determinations for eagles regarding potential effects of your proposed project. We certify that the use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the “no effect” and “not likely to adversely affect” determinations for listed species and critical habitat and “no Eagle Act permit required” determinations for eagles. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of listed species, critical habitat, or bald eagles becomes available, this determination may be reconsidered. This certification letter is valid for one year.

Applicant

Page 2

## USFWS Online Project Review Process & Checklist

PROJECT NAME: Lower Guest River Sewer Line Extension Project

REVIEW DATE: 7/31/2014

REVIEW CONDUCTED BY: Jimmy Adkins—Regional Planner/LENOWISCO PDC

STEP	DESCRIPTION	ACTION	COMPLETED
Step 1 & Step 2 (IPaC)	Official Species List from IPaC (will include map showing the action area)	<i>REQUIRED</i>	<b>Done</b>
Step 3	VDGIF and VDCR-DNH (correspondence or database review results)	<i>IF APPLICABLE</i>	<b>Done</b>
Step 4	Habitat Assessments or Species Surveys	<i>IF APPLICABLE</i>	<b>N/A</b>
Step 5	Critical Habitat		<b>N/A</b>
Step 6a	VaEagles Map and Nestcode(s)	<i>MAP REQUIRED, NESTCODE(S) IF APPLICABLE</i>	<b>Done</b>
Step 6a	Bald Eagle management Guidelines documentation	<i>IF APPLICABLE</i>	<b>N/A</b>
Step 7	Species Conclusion Table	<i>REQUIRED</i>	<b>Done</b>
Step 8	Online project review request letter or Online project review certification letter	<i>REQUIRED</i>	<b>Done</b>
	Other documentation to support your conclusions	<i>IF APPLICABLE</i>	<b>N/A</b>

**Table 1: ESA Section 7 Determination**

Possible Conclusions	ESA Section 7 Determination
Species not present	No effect
No suitable habitat present	No effect
No critical habitat present	No effect
Suitable habitat present, species not present	Not likely to adversely affect
Species (listed/proposed) present	May adversely affect
Potential habitat present and no current survey conducted	May adversely affect
Critical habitat (designated/proposed) present	May adversely affect
Species present (candidate/species of concern only)	Recommend coordination with our office to develop measures to avoid impacts

**Table 2: Eagle Act Determination**

Possible Conclusions	Eagle Act Determination
Unlikely to disturb nesting bald eagles	No Eagle Act permit required
Does not intersect with bald eagle concentration area	No Eagle Act permit required
May disturb nesting bald eagles	Eagle Act permit may be required
Does intersect with bald eagle concentration area	Eagle Act permit may be required



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Ecological Services  
6669 Short Lane  
Gloucester, Virginia 23061

Date: 08/01/2014

## Online Project Review Certification Letter

Project Name: Lower Guest River Sewer Line Extension Project

Dear Applicant:

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The species conclusions table in the enclosed project review package summarizes your ESA and Eagle Act conclusions. These conclusions resulted in “no effect” and/or “not likely to adversely affect” determinations for listed species and critical habitat and/or “no Eagle Act permit required” determinations for eagles regarding potential effects of your proposed project. We certify that the use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the “no effect” and “not likely to adversely affect” determinations for listed species and critical habitat and “no Eagle Act permit required” determinations for eagles. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of listed species, critical habitat, or bald eagles becomes available, this determination may be reconsidered. This certification letter is valid for one year.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Virginia is available at our website [http://www.fws.gov/northeast/virginiafield/endspecies/project\\_reviews.html](http://www.fws.gov/northeast/virginiafield/endspecies/project_reviews.html). If you have any questions, please contact Kimberly Smith of this office at (804) 693-6694, extension 124.

Sincerely,

/s/ Cynthia A. Schulz

Cindy Schulz  
Supervisor  
Virginia Field Office

Enclosures - project review package

## Species Conclusions Table

Project Name: Lower Guest River Sewer Line Extension Project

Date: 7/31/2014

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
birdwing pearl mussel ( <i>Lemiox rimosus</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Cracking pearl mussel ( <i>Hemistena lata</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Finerayed pigtoe ( <i>Fusconaia cuneolus</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Fluted kidneyshell ( <i>Ptychobranchus subtentum</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Gray bat ( <i>Myotis grisescens</i> )	Species not present	No effect	Habitat assessment indicated no potential habitat present.
Indiana bat ( <i>Myotis sodalis</i> )	Species not present	No effect	Habitat assessment indicated no potential habitat present.
northern long-eared Bat ( <i>Myotis septentrionalis</i> )	Species not present	No effect	Habitat assessment indicated no potential habitat present.
Oyster mussel ( <i>Epioblasma capsaeformis</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.

Rough rabbitsfoot ( <i>Quadrula cylindrica strigillata</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Sheepnose Mussel ( <i>Plethobasus cyphus</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Shiny pigtoe ( <i>Fusconaiacor</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Slabside Pearlymussel ( <i>Pleuroaia dolabelloides</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Slender chub ( <i>Erimystax cahni</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Snuffbox mussel ( <i>Epioblasma triquetra</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Spectaclecase (mussel) ( <i>Cumberlandia monodonta</i> )	Suitable habitat present, species not present	Not likely to adversely affect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Virginia spiraea ( <i>Spiraea virginiana</i> )	Species not present	No effect	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
Bald eagle	Unlikely to disturb nesting Bald Eagles	No Eagle Act permit required	No nests within 660' and not within a concentration area
ESA listed species	Species not present		

Critical habitat	No critical habitat present		
VDGIF Species List— (attached to this list)	All species are either “not present” or “suitable habitat present, species not present”	All species are either “no effect” or “not likely to adversely affect”	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.
DCR Natural Resources— (attached to this list)	Both species are either “not present” or “suitable habitat present, species not present”	Both species are either “no effect” or “not likely to adversely affect”	Habitat assessment indicated potential habitat present in Area of Potential Effects, but highly unlikely to adversely affect.

<a href="#">BOVA Code</a>	<a href="#">Status*</a>	<a href="#">Tier**</a>	<a href="#">Common Name</a>	<a href="#">Scientific Name</a>
50021	FESE	II	<a href="#">Bat, gray</a>	Myotis grisescens
50023	FESE	I	<a href="#">Bat, Indiana</a>	Myotis sodalis
50022	FP		<a href="#">Bat, northern long-eared</a>	Myotis septentrionalis
60146	FESE	II	<a href="#">Bean, Rayed</a>	Villosa fabalis
100653	FS	II	<a href="#">BEETLE, CAVE</a>	Pseudanophthalmus seclusus
100330	FS	II	<a href="#">Beetle, Little Kennedy Cave</a>	Pseudanophthalmus cordicollis
100347	FS	II	<a href="#">Beetle, Overlooked cave</a>	Pseudanophthalmus praetermissus
70118	FSSE	II	<a href="#">Crayfish, Big Sandy</a>	Cambarus veteranus
70146	FS	II	<a href="#">Crayfish, Powell River</a>	Cambarus jezerinaci
40052		II	<a href="#">Duck, American black</a>	Anas rubripes
40093	FS	II	<a href="#">Eagle, bald</a>	Haliaeetus leucocephalus
60230		II	<a href="#">Elimia, coal</a>	Elimia aterina
60055	SE	II	<a href="#">Elimia, spider</a>	Elimia arachnoidea
60006	SE	II	<a href="#">Floater, brook</a>	Alasmidonta varicosa
100001	FS	IV	<a href="#">fritillary, Diana</a>	Speyeria diana
20011		II	<a href="#">Frog, mountain chorus</a>	Pseudacris brachyphona
60080	SE	II	<a href="#">Heelsplitter, Tennessee</a>	Lasmigona holstonia
20020	CC	II	<a href="#">Hellbender, eastern</a>	Cryptobranchus alleganiensis alleganiensis
60121	FESE	II	<a href="#">Kidneyshell, fluted</a>	Ptychobranchus subtentum
10341	FS	II	<a href="#">Logperch, blotchside</a>	Percina burtoni
10331	FTST	I	<a href="#">Madtom, yellowfin</a>	Noturus flavipinnis
60083	FESE	II	<a href="#">Pearlymussel, slabside</a>	Lexingtonia dolabelloides
60052	FESE	I	<a href="#">Pigtoe, shiny</a>	Fusconaia cor
60050	FS	II	<a href="#">Pigtoe, Tennessee</a>	Fusconaia barnesiana
60122	FESE	I	<a href="#">Rabbitsfoot, rough</a>	Quadrula cylindrica strigillata
30012	CC	IV	<a href="#">Rattlesnake, timber</a>	Crotalus horridus
60069	FSST	III	<a href="#">Riversnail, spiny</a>	Io fluviialis
20030		II	<a href="#">Salamander, green</a>	Aneides aeneus
40225		I	<a href="#">Sapsucker, yellow-bellied</a>	Sphyrapicus varius
10428	FS	III	<a href="#">Sculpin, Clinch</a>	Cottus sp. 4
10076	ST	III	<a href="#">Shiner, emerald</a>	Notropis atherinoides
10075		II	<a href="#">Shiner, popeye</a>	Notropis ariommus
40293	ST	I	<a href="#">Shrike, loggerhead</a>	Lanius ludovicianus
40292	ST		<a href="#">Shrike, migrant loggerhead</a>	Lanius ludovicianus migrans
100155	FSST	I	<a href="#">Skipper, Appalachian grizzled</a>	Pyrgus wyandot
100634	FS	II	<a href="#">SPRINGTAIL, CAVE</a>	Arrhopalites commorus
40319		I	<a href="#">Warbler, black-throated green</a>	Dendroica virens
40320		II	<a href="#">Warbler, cerulean</a>	Dendroica cerulea
40306		I	<a href="#">Warbler, golden-winged</a>	Vermivora chrysoptera
40304		II	<a href="#">Warbler, Swainson's</a>	Limnothlypis swainsonii
40267	SE	I	<a href="#">Wren, Bewick's</a>	Thryomanes bewickii
40266		II	<a href="#">Wren, winter</a>	Troglodytes troglodytes



Department of Conservation & Recreation

CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

Web Project ID: WEB0000002393

Client Project Number:

***PROJECT INFORMATION***

---

TITLE: Lower Guest River Sewer Line Extension Project

DESCRIPTION: Project consists of approximately 7,250 linear feet of 8-inch gravity sewer collection line and applicable appurtenances to connect 52 residents to public sewer.

EXISTING SITE CONDITIONS: Previously disturbed

QUADRANGLES: Wise, Norton

COUNTIES: Wise

Latitude/Longitude (DMS): 36°57'39.2237"N / 82°37'12.9609"W

Acreage: 75 acres

Comments:

***REQUESTOR INFORMATION***

---

Priority: Y

Tier Level: Tier II

Tax ID:

Contact Name: Jimmy Adkins

Company Name: LENOWISCO Planning District Commission

Address: 372 Technology Trail Ln

City: Duffield

State: VA

Zip: 24244

Phone: 2764312206

Fax: 2764312208

Email: [jadkins@lenowisco.org](mailto:jadkins@lenowisco.org)

Conservation Site	Site Type	Brank	Acreage	Listed Species Presence
	GLNHR	NA	0	NL
	GLNHR	NA	0	SL
PICKEM MOUNTAIN	Conservation Site	B4	783	NL

Natural Heritage Screening Features within Search Radius

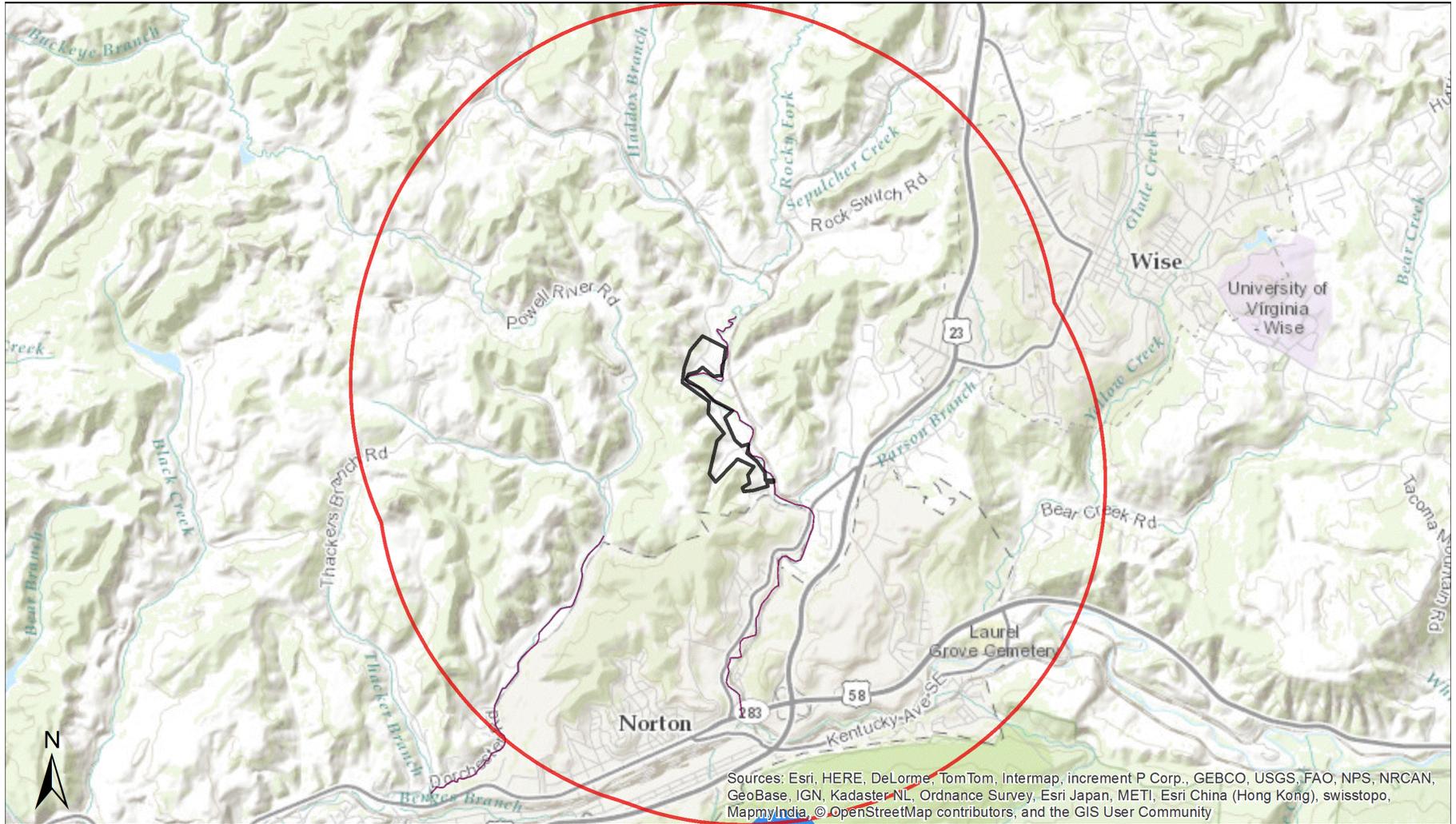
Site Name	Group Name	Common Name	Scientific Name	GRANK	SRANK	Fed Status	State Status	EO Rank	Last Obs Date	Precision
	Vertebrate Animal	Tangerine Darter	Percina aurantiaca	G4	S2S3			H		M
	Invertebrate Animal	Tennessee Heelsplitter	Lasmigona holstonia	G3	S1		LE	H		M

Natural Heritage Resources within Search Radius

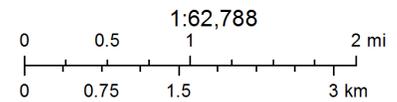
Intersecting Predictive Models

Predictive Model Results

# Lower Guest River Sewer Line Extension Project



- Project Area
- Buffered Project Area
- Conservation Site
- GLNHR
- NH Screening Features
- SCU



Quads: Wise, Norton  
 Counties: Wise

Company: LENOWISCO Planning District Comm  
 Lat/Long: 365739 / -823712



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF CONSERVATION AND RECREATION

The project mapped as part of this report has been searched against the Department of Conservation and Recreation's Biotics Data System for occurrences of natural heritage resources from the area indicated for this project. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics files, NATURAL HERITAGE RESOURCES HAVE BEEN DOCUMENTED within two miles of the indicated project boundaries and/or POTENTIAL HABITAT FOR NATURAL HERITAGE RESOURCES intersect the project area.

You have submitted this project to DCR for a more detailed review for potential impacts to natural heritage resources. DCR will review the submitted project to identify the specific natural heritage resources in the vicinity of the proposed project. Using the expertise of our biologists, DCR will evaluate whether your specific project is likely to impact these resources, and if so how. DCR's response will indicate whether any negative impacts are likely and, if so, make recommendations to avoid, minimize and/or mitigate these impacts. If the potential negative impacts are to species that are state- or federally-listed as threatened or endangered, DCR will also recommend coordination with the appropriate regulatory agencies: the Virginia Department of Game and Inland Fisheries for state-listed animals, the Virginia Department of Agriculture and Consumer Services for state-listed plants and insects, and the United States Fish and Wildlife Service for federally listed plants and animals. If your project is expected to have positive impacts we will report those to you with recommendations for enhancing these benefits.

**There will be a charge for this service for "for profit companies": \$60, plus an additional charge of \$35 for 1-5 occurrences and \$60 for 6 or more occurrences.**

Please allow up to 30 days for a response, unless you requested a priority response (in 5 business days) at an additional surcharge of \$500. An invoice will be provided with your response.

We will review the project based on the information you included in the Project Info submittal form, which is included in this report. Also any additional information including photographs, survey documents, etc. attached during the project submittal process and/or sent via email referencing the project title (from the first page of this report).

Thank you for submitting your project for review to the Virginia Natural Heritage Program through the NH Data Explorer. Should you have any questions or concerns about DCR, the Data Explorer, or this report, please contact the Natural Heritage Project Review Unit at 804-371-2708.

**Jimmy Adkins**

---

**From:** Brian Evans [Brian\_Evans@fws.gov]  
**Sent:** Friday, August 29, 2014 8:47 AM  
**To:** jadkins@lenowisco.org  
**Cc:** Roberta Hylton  
**Subject:** Lower Guest River Sewer Line Extension Project

Dear Mr. Adkins,

We have reviewed the project package received on August 18, 2014 for the referenced project. The following comments are provided under provisions of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended, and Bald and Golden Eagle Protection Act (16 U.S.C. 668-668c, 54 Stat. 250) as amended.

We concur with the determinations provided in the Species Conclusion Table dated July 31, 2014 and have no further comments. Should project plans change or if additional information on the distribution of listed species or critical habitat becomes available, this determination may be reconsidered. If you have any questions, please call or email me.

Sincerely,  
Brian Evans  
U.S. Fish and Wildlife Service  
Southwestern Virginia Field Office  
330 Cummings Street  
Abingdon, VA 24210  
(276) 623-1233 x 26

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10336 (20140829)  
\_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10336 (20140829)  
\_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10390 (20140909)  
\_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

# Virginia Fish and Wildlife Information Service



**Site Location**  
36,57,47.3 -82,37,15.2  
is the Search Point

[Refresh Browser Page](#)

Map Click  In  Out

Map Scale  In  Zoom  Out

Screen Size  Small  Size  Big

[Help](#)

### Show Position Rings

Yes  No

1 mile and 1/4 mile at the Search Point

### Show Search Area

Yes  No

5 Search distance miles radius

Search Point is at map center

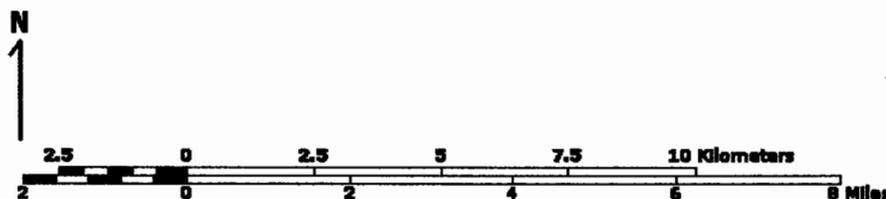
### Base Map Choices

Topography ▼

### Map Overlay Choices

Current List: Position, Search, BECAR, BAEANests, TEWaters, TierII, Habitat, Trout, Anadromous

### Map Overlay Legend



Point of Search 36,57,47.3 -82,37,15.2  
Map Location 36,57,47.3 -82,37,15.2

- Select Coordinate System:
- Degrees, Minutes, Seconds Latitude - Longitude
  - Decimal Degrees Latitude - Longitude
  - Meters UTM NAD83 East North Zone
  - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 17 NAD 1983 with left 346105 and top 4101611. Pixel size is 32 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 19200 meters east to west by 19200 meters north to south for a total of 368.6 square kilometers. The map display

**T & E Waters**

**Federal**

**State**

**Predicted Habitat  
WAP Tier I & II**

**Aquatic**

**Terrestrial**

**Trout Waters**

**Class I - IV**

**Class V - VI**

**Anadromous Fish Reach**

**Confirmed**

**Potential**

**Impediment**

**Position Rings  
1 mile and 1/4  
mile at the  
Search Point**

**5 mile radius  
Search Area**

**Bald Eagle  
Concentration Areas  
and Roosts**

represents 63002 feet east to west by 63002 feet north to south for a total of 142.3 square miles.

Topographic maps and Black and white aerial photography for year 1990+ are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic <http://www.nationalgeographic.com/topo> All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2014-07-31 15:52:51 (qa/qc December 5, 2012 8:04 - tn=573261.0 dist=8045 Visitor )  
\$poi=36.9631420 -82.6209075

# VaFWIS Search Report

Compiled on 7/31/2014, 3:52:28 PM

[Help](#)

Observations reported or potential habitat occurs within a **5 mile radius around point 36.9631420 -82.6209075**

in **195 Wise County, 720 Norton City, VA**

[View Map of Site Location](#)

459 Known or Likely Species ordered by Status Concern for Conservation  
(displaying first 42) (42 species with Status\* or Tier I\*\* or Tier II\*\* )

<b>BOVA Code</b>	<b>Status*</b>	<b>Tier**</b>	<b>Common Name</b>	<b>Scientific Name</b>
050023	FESE	I	<u>Bat, Indiana</u>	Myotis sodalis
060052	FESE	I	<u>Pigtoe, shiny</u>	Fusconaia cor
060122	FESE	I	<u>Rabbitsfoot, rough</u>	Quadrula cylindrica strigillata
050021	FESE	II	<u>Bat, gray</u>	Myotis grisescens
060146	FESE	II	<u>Bean, Rayed</u>	Villosa fabalis
060121	FESE	II	<u>Kidneyshell, fluted</u>	Ptychobranthus subtentum
060083	FESE	II	<u>Pearlymussel, slabside</u>	Lexingtonia dolabelloides
010331	FTST	I	<u>Madtom, yellowfin</u>	Noturus flavipinnis
040267	SE	I	<u>Wren, Bewick's</u>	Thryomanes bewickii
060055	SE	II	<u>Elimia, spider</u>	Elimia arachnoidea
060006	SE	II	<u>Floater, brook</u>	Alasmidonta varicosa
060080	SE	II	<u>Heelsplitter, Tennessee</u>	Lasmigona holstonia
070118	FSSE	II	<u>Crayfish, Big Sandy</u>	Cambarus veteranus
040293	ST	I	<u>Shrike, loggerhead</u>	Lanius ludovicianus
100155	FSST	I	<u>Skipper, Appalachian grizzled</u>	Pyrgus wyandot
010076	ST	III	<u>Shiner, emerald</u>	Notropis atherinoides
060069	FSST	III	<u>Riversnail, spiny</u>	Io fluviialis
040292	ST		<u>Shrike, migrant loggerhead</u>	Lanius ludovicianus migrans
050022	FP		<u>Bat, northern long-eared</u>	Myotis septentrionalis
010341	FS	II	<u>Logperch, blotchside</u>	Percina burtoni
040093	FS	II	<u>Eagle, bald</u>	Haliaeetus leucocephalus
060050	FS	II	<u>Pigtoe, Tennessee</u>	Fusconaia barnesiana
070146	FS	II	<u>Crayfish, Powell River</u>	Cambarus jezerinaci

100653	FS	II	<u>BEETLE, CAVE</u>	Pseudanophthalmus seclusus
100330	FS	II	<u>Beetle, Little Kennedy Cave</u>	Pseudanophthalmus cordicollis
100347	FS	II	<u>Beetle, Overlooked cave</u>	Pseudanophthalmus praetermissus
100634	FS	II	<u>SPRINGTAIL, CAVE</u>	Arrhopalites commorus
010428	FS	III	<u>Sculpin, Clinch</u>	Cottus sp. 4
100001	FS	IV	<u>fritillary, Diana</u>	Speyeria diana
020020	CC	II	<u>Hellbender, eastern</u>	Cryptobranchus alleganiensis alleganiensis
030012	CC	IV	<u>Rattlesnake, timber</u>	Crotalus horridus
040225		I	<u>Sapsucker, yellow-bellied</u>	Sphyrapicus varius
040319		I	<u>Warbler, black-throated green</u>	Dendroica virens
040306		I	<u>Warbler, golden-winged</u>	Vermivora chrysoptera
010075		II	<u>Shiner, popeye</u>	Notropis ariommus
020011		II	<u>Frog, mountain chorus</u>	Pseudacris brachyphona
020030		II	<u>Salamander, green</u>	Aneides aeneus
040052		II	<u>Duck, American black</u>	Anas rubripes
040320		II	<u>Warbler, cerulean</u>	Dendroica cerulea
040304		II	<u>Warbler, Swainson's</u>	Limnothlypis swainsonii
040266		II	<u>Wren, winter</u>	Troglodytes troglodytes
060230		II	<u>Elimia, coal</u>	Elimia aterina

To view **All 459 species** [View 459](#)

\* FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened;  
FP=Federal Proposed; FC=Federal Candidate; FS=Federal Species of Concern; CC=Collection Concern

\*\* I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;  
II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;  
III=VA Wildlife Action Plan - Tier III - High Conservation Need;  
IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

### Anadromous Fish Use Streams

N/A

### Impediments to Fish Passage

N/A

### Threatened and Endangered Waters

N/A

**Managed Trout Streams** (2 records)[View Map of All Trout Stream Surveys](#)

Reach ID	Stream Name	Class	Brook Trout	Brown Trout	Rainbow Trout	View Map
02CRC-01	<a href="#">Clear Creek</a>	Stockable				<a href="#">Yes</a>
02SNY-01	<a href="#">Stony Creek</a>	Stockable				<a href="#">Yes</a>

**Bald Eagle Concentration Areas and Roosts**

N/A

**Bald Eagle Nests**

N/A

**Habitat Predicted for Aquatic WAP Tier I & II Species** (1 Reach)[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
Powell River (60102061)	SE	060080	SE	II	<a href="#">Heelsplitter, Tennessee</a>	<a href="#">Lasmigona holstonia</a>	<a href="#">Yes</a>

**Habitat Predicted for Terrestrial WAP Tier I & II Species** (2 Species)[View Map of Combined Terrestrial Habitat Predicted for 2 WAP Tier I & II Species Listed Below](#)

ordered by Status Concern for Conservation

BOVA Code	Status*	Tier**	Common Name	Scientific Name	View Map
020011		II	<a href="#">Frog, mountain chorus</a>	<a href="#">Pseudacris brachyphona</a>	<a href="#">Yes</a>
040266		II	<a href="#">Wren, winter</a>	<a href="#">Troglodytes troglodytes</a>	<a href="#">Yes</a>

**Virginia Breeding Bird Atlas Blocks** (8 records)[View Map of All Query Results Virginia Breeding Bird Atlas Blocks](#)

BBA ID	Atlas Quadrangle Block Name	Breeding Bird Atlas Species			View Map
		Different Species	Highest TE*	Highest Tier**	
09056	<u>Flat Gap, SE</u>	46		II	<u>Yes</u>
09046	<u>Norton, SE</u>	79	ST	I	<u>Yes</u>
10056	<u>Pound, SE</u>	53		I	<u>Yes</u>
10055	<u>Pound, SW</u>	24		IV	<u>Yes</u>
10044	<u>Wise, CE</u>	65		I	<u>Yes</u>
10042	<u>Wise, NE</u>	63		I	<u>Yes</u>
10046	<u>Wise, SE</u>	46		IV	<u>Yes</u>
10045	<u>Wise, SW</u>	37		IV	<u>Yes</u>

**Public Holdings:** (1 names)

Name	Agency	Level
Jefferson Natioanl Forest	U.S. Forest Service	Federal

**Summary of BOVA Species Associated with Cities and Counties of the Commonwealth of Virginia:**

FIPS Code	City and County Name	Different Species	Highest TE	Highest Tier
195	<u>Wise</u>	423	FESE	I
720	<u>Norton City</u>	337	FESE	I

**USGS 7.5' Quadrangles:**

Norton  
Flat Gap  
Wise  
Pound

**USGS NRCS Watersheds in Virginia:**

N/A

**USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:**

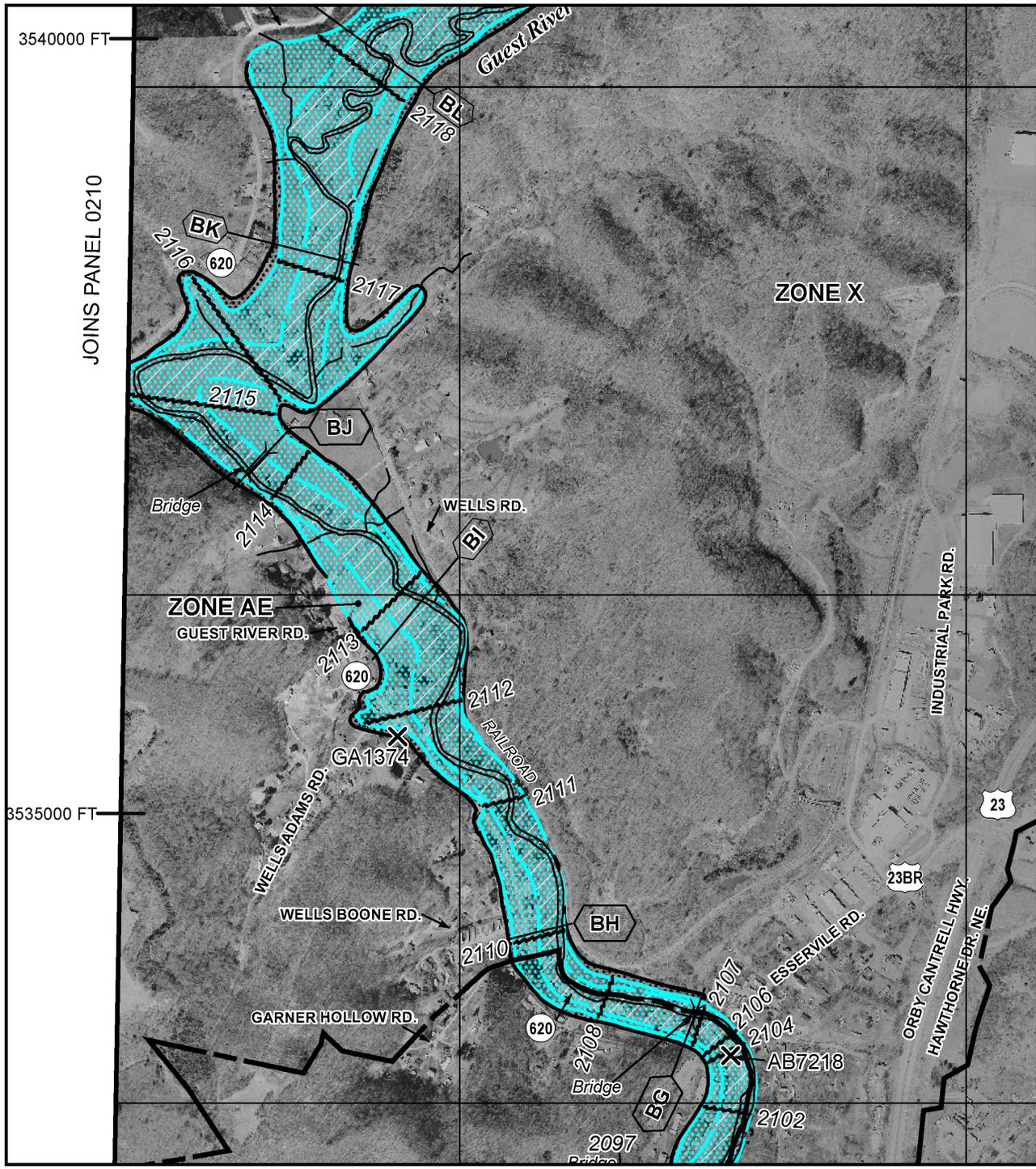
HU6 Code	USGS 6th Order Hydrologic Unit	Different Species	Highest TE	Highest Tier
BS29	<u>Pound River-Indian Creek</u>	55	FESE	I

BS32	<u>Birchfield Creek</u>	54	FESE	I
TC19	<u>Guest River-Rocky Fork</u>	52	FESE	I
TC20	<u>Bear Creek</u>	49	FESE	I
TC21	<u>Guest River-Toms Creek</u>	73	FESE	I
TC24	<u>Stony Creek-Straight Fork</u>	87	FESE	I
TP01	<u>Roaring Fork</u>	52	FESE	I
TP02	<u>Powell River-Black Creek</u>	57	FESE	I
TP05	<u>South Fork Powell River-Butcher Fork</u>	82	FESE	I

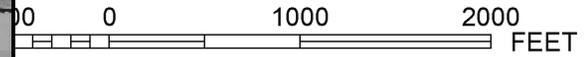
Compiled on 7/31/2014, 3:52:29 PM V573261.0 report=V searchType= R dist= 8045 poi= 36.9631420 -82.6209075

<u>BOVA Code</u>	<u>Status*</u>	<u>Tier**</u>	<u>Common Name</u>	<u>Scientific Name</u>
50021	FESE	II	<u>Bat, gray</u>	Myotis grisescens
50023	FESE	I	<u>Bat, Indiana</u>	Myotis sodalis
50022	FP		<u>Bat, northern long-eared</u>	Myotis septentrionalis
60146	FESE	II	<u>Bean, Rayed</u>	Villosa fabalis
100653	FS	II	<u>BEEBLE, CAVE</u>	Pseudanophthalmus seclusus
100330	FS	II	<u>Beetle, Little Kennedy Cave</u>	Pseudanophthalmus cordicollis
100347	FS	II	<u>Beetle, Overlooked cave</u>	Pseudanophthalmus praetermissus
70118	FSSE	II	<u>Crayfish, Big Sandy</u>	Cambarus veteranus
70146	FS	II	<u>Crayfish, Powell River</u>	Cambarus jezerinaci
40052		II	<u>Duck, American black</u>	Anas rubripes
40093	FS	II	<u>Eagle, bald</u>	Haliaeetus leucocephalus
60230		II	<u>Elimia, coal</u>	Elimia aterina
60055	SE	II	<u>Elimia, spider</u>	Elimia arachnoidea
60006	SE	II	<u>Floater, brook</u>	Alasmidonta varicosa
100001	FS	IV	<u>fritillary, Diana</u>	Speyeria diana
20011		II	<u>Frog, mountain chorus</u>	Pseudacris brachyphona
60080	SE	II	<u>Heelsplitter, Tennessee</u>	Lasmigona holstonia
20020	CC	II	<u>Hellbender, eastern</u>	Cryptobranchus alleganiensis alleganiensis
60121	FESE	II	<u>Kidneyshell, fluted</u>	Ptychobranchus subtentum
10341	FS	II	<u>Loggerch, blotchside</u>	Percina burtoni
10331	FTST	I	<u>Madtom, yellowfin</u>	Noturus flavipinnis
60083	FESE	II	<u>Pearlymussel, slabside</u>	Lexingtonia dolabelloides
60052	FESE	I	<u>Pigtoe, shiny</u>	Fusconaia cor
60050	FS	II	<u>Pigtoe, Tennessee</u>	Fusconaia barnesiana
60122	FESE	I	<u>Rabbitsfoot, rough</u>	Quadrula cylindrica strigillata
30012	CC	IV	<u>Rattlesnake, timber</u>	Crotalus horridus
60069	FSST	III	<u>Riversnail, spiny</u>	Io fluviialis
20030		II	<u>Salamander, green</u>	Aneides aeneus
40225		I	<u>Sapsucker, yellow-bellied</u>	Sphyrapicus varius
10428	FS	III	<u>Sculpin, Clinch</u>	Cottus sp. 4
10076	ST	III	<u>Shiner, emerald</u>	Notropis atherinoides
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40292	ST		<u>Shrike, migrant loggerhead</u>	Lanius ludovicianus migrans
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100634	FS	II	<u>SPRINGTAIL, CAVE</u>	Arrhopalites commorus
40319		I	<u>Warbler, black-throated green</u>	Dendroica virens
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40306		I	<u>Warbler, golden-winged</u>	Vermivora chrysoptera
40304		II	<u>Warbler, Swainson's</u>	Limnothlypis swainsonii
40267	SE	I	<u>Wren, Bewick's</u>	Thryomanes bewickii
40266		II	<u>Wren, winter</u>	Troglodytes troglodytes

<u>BOVA Code</u>	<u>Status*</u>	<u>Tier**</u>	<u>Common Name</u>	<u>Scientific Name</u>
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60146	FESE	II	<a href="#">Bean, Rayed</a>	Villosa fabalis
100653	FS	II	<a href="#">BEETLE, CAVE</a>	Pseudanophthalmus seclusus
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60230		II	<a href="#">Elimia, coal</a>	Elimia aterina
60055	SE	II	<a href="#">Elimia, spider</a>	Elimia arachnoidea
60006	SE	II	<a href="#">Floater, brook</a>	Alasmidonta varicosa
100001	FS	IV	<a href="#">fritillary, Diana</a>	Speyeria diana
20011		II	<a href="#">Frog, mountain chorus</a>	Pseudacris brachyphona
60080	SE	II	<a href="#">Heelsplitter, Tennessee</a>	Lasmigona holstonia
20020	CC	II	<a href="#">Hellbender, eastern</a>	Cryptobranchus alleganiensis alleganiensis
60121	FESE	II	<a href="#">Kidneyshell, fluted</a>	Ptychobranchus subtentum
10341	FS	II	<a href="#">Logperch, blotchside</a>	Percina burtoni
10331	FTST	I	<a href="#">Madtom, yellowfin</a>	Noturus flavipinnis
60083	FESE	II	<a href="#">Pearlymussel, slabside</a>	Lexingtonia dolabelloides
60052	FESE	I	<a href="#">Pigtoe, shiny</a>	Fusconaia cor
60050	FS	II	<a href="#">Pigtoe, Tennessee</a>	Fusconaia barnesiana
60122	FESE	I	<a href="#">Rabbitsfoot, rough</a>	Quadrula cylindrica strigillata
30012	CC	IV	<a href="#">Rattlesnake, timber</a>	Crotalus horridus
60069	FSST	III	<a href="#">Riversnail, spiny</a>	Io fluviialis
20030		II	<a href="#">Salamander, green</a>	Aneides aeneus
40225		I	<a href="#">Sapsucker, yellow-bellied</a>	Sphyrapicus varius
10428	FS	III	<a href="#">Sculpin, Clinch</a>	Cottus sp. 4
10076	ST	III	<a href="#">Shiner, emerald</a>	Notropis atherinoides
10075		II	<a href="#">Shiner, popeye</a>	Notropis ariommus
40293	ST	I	<a href="#">Shrike, loggerhead</a>	Lanius ludovicianus
40292	ST		<a href="#">Shrike, migrant loggerhead</a>	Lanius ludovicianus migrans
100155	FSST	I	<a href="#">Skipper, Appalachian grizzled</a>	Pyrgus wyandot
100634	FS	II	<a href="#">SPRINGTAIL, CAVE</a>	Arrhopalites commorus
40319		I	<a href="#">Warbler, black-throated green</a>	Dendroica virens
40320		II	<a href="#">Warbler, cerulean</a>	Dendroica cerulea
40306		I	<a href="#">Warbler, golden-winged</a>	Vermivora chrysoptera
40304		II	<a href="#">Warbler, Swainson's</a>	Limnothlypis swainsonii
40267	SE	I	<a href="#">Wren, Bewick's</a>	Thryomanes bewickii
40266		II	<a href="#">Wren, winter</a>	Troglodytes troglodytes



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0230D

**FIRM**  
FLOOD INSURANCE RATE MAP

**WISE COUNTY,  
VIRGINIA  
AND INCORPORATED AREAS**

**PANEL 230 OF 350**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
NORTON, CITY OF (Independent City)	510108	0230	D
WISE COUNTY	510174	0230	D
WISE, TOWN OF	510179	0230	D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

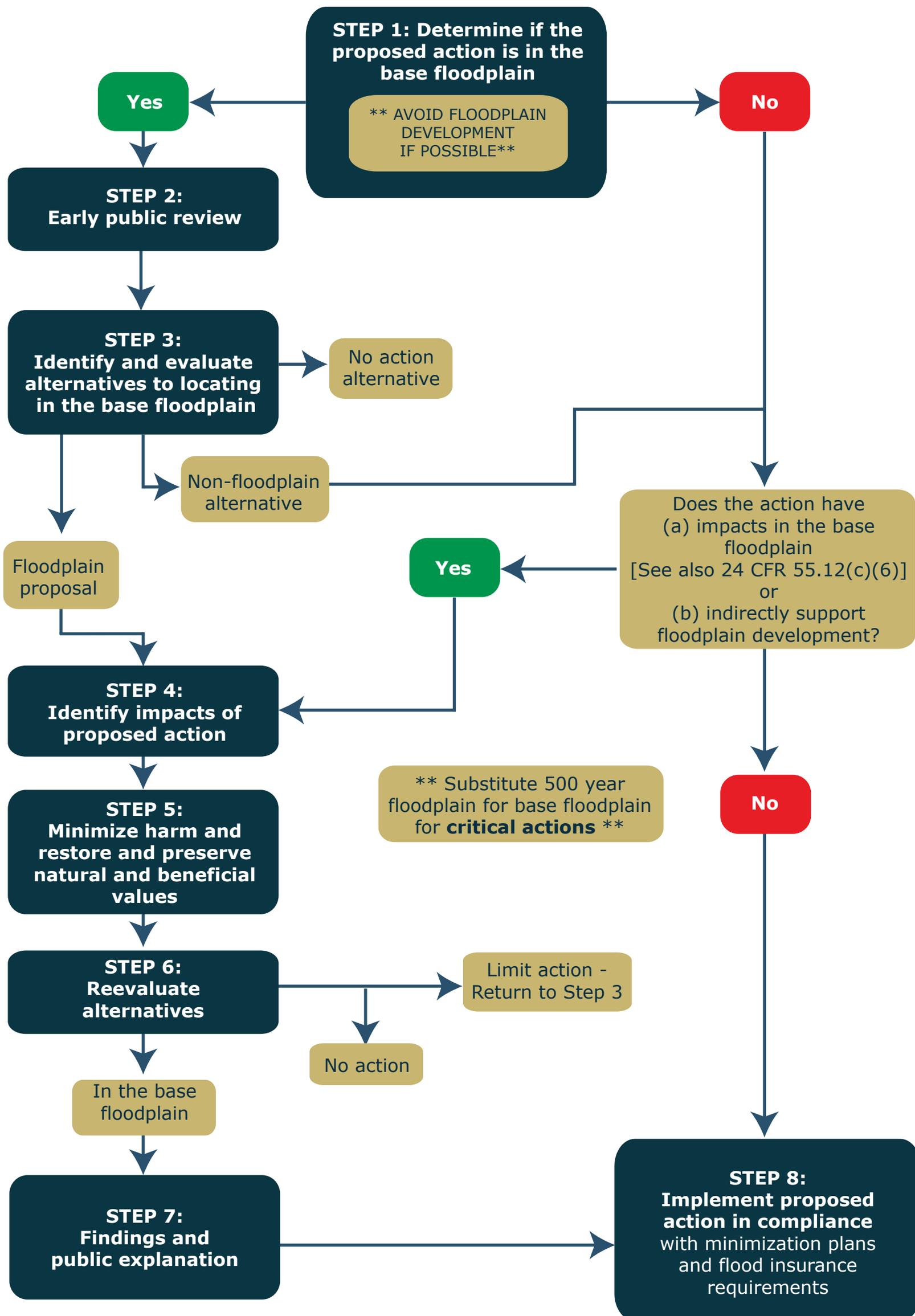


**MAP NUMBER**  
**51195C0230D**  
**EFFECTIVE DATE**  
**FEBRUARY 18, 2011**

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

# 8- Step Decision-Making Process for Executive Order 11988



L E N O W I S C O  
P L A N N I N G D I S T R I C T C O M M I S S I O N

**MEMORANDUM**

TO: File

FROM: Jimmy Adkins, Regional Planner

DATE: January 29, 2015

**SUBJECT: Lower Guest River Sewer Line Extension Project – Floodplain Maps**

---

The project area for the subject project was compared to FEMA Floodplain Maps.

There may be up to three (3) portions of the project area is within or near a designated Floodplain or Floodway. These three (3) are sewer line connections via water sealed manholes to the main sewer line interceptor that follows along the river.

The 8-step decision making process for Executive Order 11988 was followed and determined no alternative was available. There will be no above ground structures built in the floodplain and no adverse affects to the waterway during construction.

The public has been made aware of the floodplain during the development of this and completion of several water and wastewater projects in the same Area of Potential Effects.



Jimmy Adkins

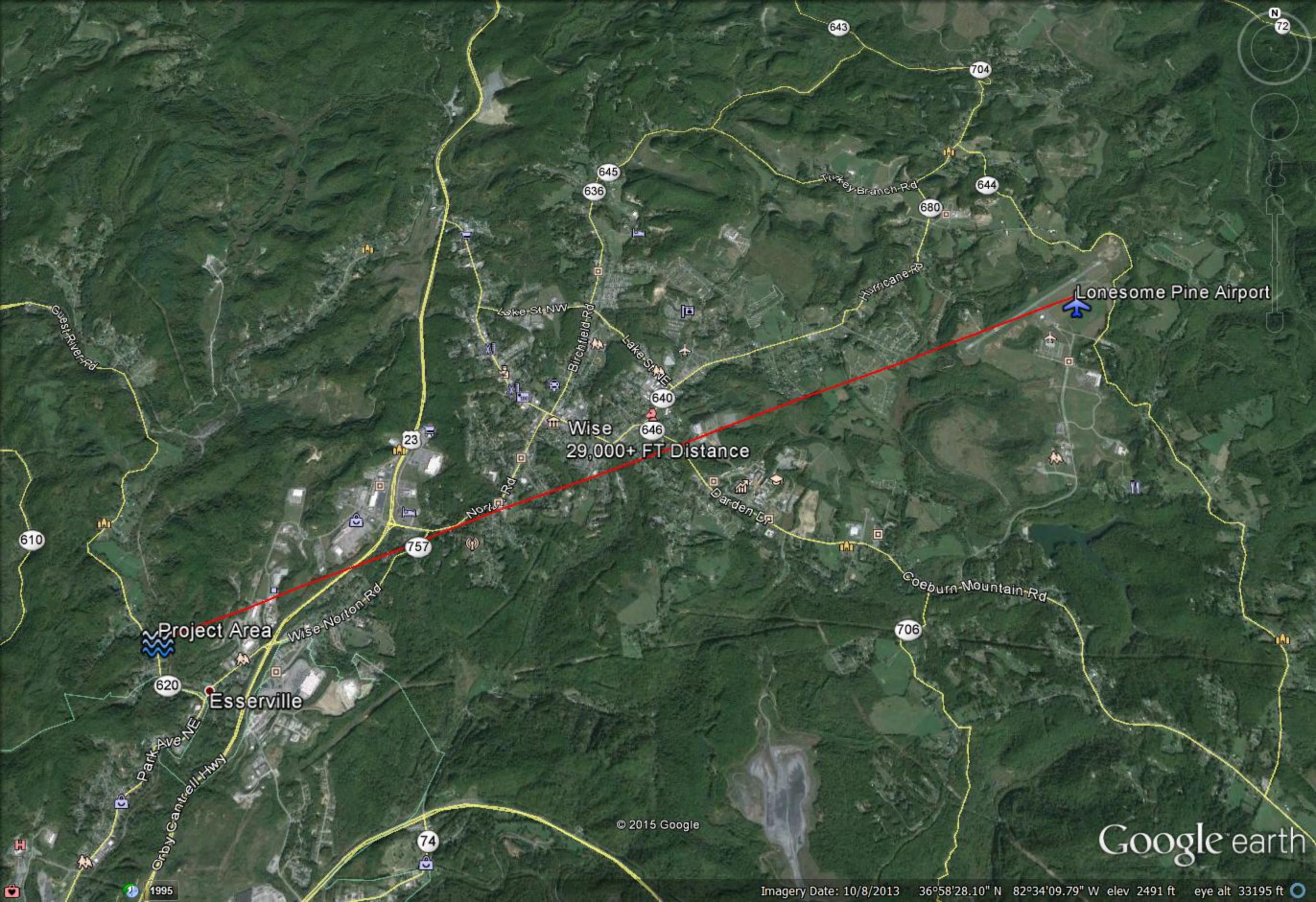
LENOWISCO Planning District Commission



P.O. Box 366 • Duffield, VA 24244-0366  
Phone: 276/431-2206 FAX: 276/431-2208

*Virginia Planning District One • Serving Lee-Norton-Wise-Scott*





Project Area

Esserville

Wise  
29,000+ FT Distance

Lonesome Pine Airport

Google earth

© 2015 Google

1995

Imagery Date: 10/8/2013 36°58'28.10" N 82°34'09.79" W elev 2491 ft eye alt 33195 ft

**L E N O W I S C O**  
**PLANNING DISTRICT COMMISSION**

**MEMORANDUM**

TO: File

FROM: Jimmy Adkins, Regional Planner

DATE: January 27, 2015

**SUBJECT: Lower Guest River Sewer Line Extension Project – Airport**

---

The closest portion of the project is located approximately 29,000+ feet from the nearest airport, Lonesome Pine Airport in Wise.

No portion of the project areas are adjacent to or have an area of potential effect near an airport.



Jimmy Adkins

LENOWISCO Planning District Commission



P.O. Box 366 • Duffield, VA 24244-0366  
Phone: 276/431-2206 FAX: 276/431-2208

*Virginia Planning District One • Serving Lee-Norton-Wise-Scott*



# Presidential Documents

## Title 3—

## Executive Order 12898 of February 11, 1994

### The President

### Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

#### **Section 1-1.***Implementation.*

**1-101.** *Agency Responsibilities.* To the greatest extent practicable and permitted by law, and consistent with the principles set forth in the report on the National Performance Review, each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations in the United States and its territories and possessions, the District of Columbia, the Commonwealth of Puerto Rico, and the Commonwealth of the Mariana Islands.

#### **1-102.** *Creation of an Interagency Working Group on Environmental Justice.*

(a) Within 3 months of the date of this order, the Administrator of the Environmental Protection Agency ("Administrator") or the Administrator's designee shall convene an interagency Federal Working Group on Environmental Justice ("Working Group"). The Working Group shall comprise the heads of the following executive agencies and offices, or their designees: (a) Department of Defense; (b) Department of Health and Human Services; (c) Department of Housing and Urban Development; (d) Department of Labor; (e) Department of Agriculture; (f) Department of Transportation; (g) Department of Justice; (h) Department of the Interior; (i) Department of Commerce; (j) Department of Energy; (k) Environmental Protection Agency; (l) Office of Management and Budget; (m) Office of Science and Technology Policy; (n) Office of the Deputy Assistant to the President for Environmental Policy; (o) Office of the Assistant to the President for Domestic Policy; (p) National Economic Council; (q) Council of Economic Advisers; and (r) such other Government officials as the President may designate. The Working Group shall report to the President through the Deputy Assistant to the President for Environmental Policy and the Assistant to the President for Domestic Policy.

(b) The Working Group shall: (1) provide guidance to Federal agencies on criteria for identifying disproportionately high and adverse human health or environmental effects on minority populations and low-income populations;

(2) coordinate with, provide guidance to, and serve as a clearinghouse for, each Federal agency as it develops an environmental justice strategy as required by section 1-103 of this order, in order to ensure that the administration, interpretation and enforcement of programs, activities and policies are undertaken in a consistent manner;

(3) assist in coordinating research by, and stimulating cooperation among, the Environmental Protection Agency, the Department of Health and Human Services, the Department of Housing and Urban Development, and other agencies conducting research or other activities in accordance with section 3-3 of this order;

(4) assist in coordinating data collection, required by this order;

(5) examine existing data and studies on environmental justice;

(6) hold public meetings as required in section 5-502(d) of this order; and

(7) develop interagency model projects on environmental justice that evidence cooperation among Federal agencies.

**1-103. *Development of Agency Strategies.*** (a) Except as provided in section 6-605 of this order, each Federal agency shall develop an agency-wide environmental justice strategy, as set forth in subsections (b)-(e) of this section that identifies and addresses disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations. The environmental justice strategy shall list programs, policies, planning and public participation processes, enforcement, and/or rulemakings related to human health or the environment that should be revised to, at a minimum: (1) promote enforcement of all health and environmental statutes in areas with minority populations and low-income populations; (2) ensure greater public participation; (3) improve research and data collection relating to the health of and environment of minority populations and low-income populations; and (4) identify differential patterns of consumption of natural resources among minority populations and low-income populations. In addition, the environmental justice strategy shall include, where appropriate, a timetable for undertaking identified revisions and consideration of economic and social implications of the revisions.

(b) Within 4 months of the date of this order, each Federal agency shall identify an internal administrative process for developing its environmental justice strategy, and shall inform the Working Group of the process.

(c) Within 6 months of the date of this order, each Federal agency shall provide the Working Group with an outline of its proposed environmental justice strategy.

(d) Within 10 months of the date of this order, each Federal agency shall provide the Working Group with its proposed environmental justice strategy.

(e) Within 12 months of the date of this order, each Federal agency shall finalize its environmental justice strategy and provide a copy and written description of its strategy to the Working Group. During the 12 month period from the date of this order, each Federal agency, as part of its environmental justice strategy, shall identify several specific projects that can be promptly undertaken to address particular concerns identified during the development of the proposed environmental justice strategy, and a schedule for implementing those projects.

(f) Within 24 months of the date of this order, each Federal agency shall report to the Working Group on its progress in implementing its agency-wide environmental justice strategy.

(g) Federal agencies shall provide additional periodic reports to the Working Group as requested by the Working Group.

**1-104. *Reports to the President.*** Within 14 months of the date of this order, the Working Group shall submit to the President, through the Office of the Deputy Assistant to the President for Environmental Policy and the Office of the Assistant to the President for Domestic Policy, a report that describes the implementation of this order, and includes the final environmental justice strategies described in section 1-103(e) of this order.

**Sec. 2-2. *Federal Agency Responsibilities for Federal Programs.*** Each Federal agency shall conduct its programs, policies, and activities that substantially affect human health or the environment, in a manner that ensures that such programs, policies, and activities do not have the effect of excluding persons (including populations) from participation in, denying persons (including populations) the benefits of, or subjecting persons (including populations) to discrimination under, such programs, policies, and activities, because of their race, color, or national origin.

**Sec. 3-3. Research, Data Collection, and Analysis.**

**3-301. Human Health and Environmental Research and Analysis.** (a) Environmental human health research, whenever practicable and appropriate, shall include diverse segments of the population in epidemiological and clinical studies, including segments at high risk from environmental hazards, such as minority populations, low-income populations and workers who may be exposed to substantial environmental hazards.

(b) Environmental human health analyses, whenever practicable and appropriate, shall identify multiple and cumulative exposures.

(c) Federal agencies shall provide minority populations and low-income populations the opportunity to comment on the development and design of research strategies undertaken pursuant to this order.

**3-302. Human Health and Environmental Data Collection and Analysis.** To the extent permitted by existing law, including the Privacy Act, as amended (5 U.S.C. section 552a): (a) each Federal agency, whenever practicable and appropriate, shall collect, maintain, and analyze information assessing and comparing environmental and human health risks borne by populations identified by race, national origin, or income. To the extent practical and appropriate, Federal agencies shall use this information to determine whether their programs, policies, and activities have disproportionately high and adverse human health or environmental effects on minority populations and low-income populations;

(b) In connection with the development and implementation of agency strategies in section 1-103 of this order, each Federal agency, whenever practicable and appropriate, shall collect, maintain and analyze information on the race, national origin, income level, and other readily accessible and appropriate information for areas surrounding facilities or sites expected to have a substantial environmental, human health, or economic effect on the surrounding populations, when such facilities or sites become the subject of a substantial Federal environmental administrative or judicial action. Such information shall be made available to the public, unless prohibited by law; and

(c) Each Federal agency, whenever practicable and appropriate, shall collect, maintain, and analyze information on the race, national origin, income level, and other readily accessible and appropriate information for areas surrounding Federal facilities that are: (1) subject to the reporting requirements under the Emergency Planning and Community Right-to-Know Act, 42 U.S.C. section 11001-11050 as mandated in Executive Order No. 12856; and (2) expected to have a substantial environmental, human health, or economic effect on surrounding populations. Such information shall be made available to the public, unless prohibited by law.

(d) In carrying out the responsibilities in this section, each Federal agency, whenever practicable and appropriate, shall share information and eliminate unnecessary duplication of efforts through the use of existing data systems and cooperative agreements among Federal agencies and with State, local, and tribal governments.

**Sec. 4-4. Subsistence Consumption of Fish and Wildlife.**

**4-401. Consumption Patterns.** In order to assist in identifying the need for ensuring protection of populations with differential patterns of subsistence consumption of fish and wildlife, Federal agencies, whenever practicable and appropriate, shall collect, maintain, and analyze information on the consumption patterns of populations who principally rely on fish and/or wildlife for subsistence. Federal agencies shall communicate to the public the risks of those consumption patterns.

**4-402. Guidance.** Federal agencies, whenever practicable and appropriate, shall work in a coordinated manner to publish guidance reflecting the latest scientific information available concerning methods for evaluating the human health risks associated with the consumption of pollutant-bearing fish or

wildlife. Agencies shall consider such guidance in developing their policies and rules.

**Sec. 5-5. *Public Participation and Access to Information.*** (a) The public may submit recommendations to Federal agencies relating to the incorporation of environmental justice principles into Federal agency programs or policies. Each Federal agency shall convey such recommendations to the Working Group.

(b) Each Federal agency may, whenever practicable and appropriate, translate crucial public documents, notices, and hearings relating to human health or the environment for limited English speaking populations.

(c) Each Federal agency shall work to ensure that public documents, notices, and hearings relating to human health or the environment are concise, understandable, and readily accessible to the public.

(d) The Working Group shall hold public meetings, as appropriate, for the purpose of fact-finding, receiving public comments, and conducting inquiries concerning environmental justice. The Working Group shall prepare for public review a summary of the comments and recommendations discussed at the public meetings.

**Sec. 6-6. *General Provisions.***

**6-601. *Responsibility for Agency Implementation.*** The head of each Federal agency shall be responsible for ensuring compliance with this order. Each Federal agency shall conduct internal reviews and take such other steps as may be necessary to monitor compliance with this order.

**6-602. *Executive Order No. 12250.*** This Executive order is intended to supplement but not supersede Executive Order No. 12250, which requires consistent and effective implementation of various laws prohibiting discriminatory practices in programs receiving Federal financial assistance. Nothing herein shall limit the effect or mandate of Executive Order No. 12250.

**6-603. *Executive Order No. 12875.*** This Executive order is not intended to limit the effect or mandate of Executive Order No. 12875.

**6-604. *Scope.*** For purposes of this order, Federal agency means any agency on the Working Group, and such other agencies as may be designated by the President, that conducts any Federal program or activity that substantially affects human health or the environment. Independent agencies are requested to comply with the provisions of this order.

**6-605. *Petitions for Exemptions.*** The head of a Federal agency may petition the President for an exemption from the requirements of this order on the grounds that all or some of the petitioning agency's programs or activities should not be subject to the requirements of this order.

**6-606. *Native American Programs.*** Each Federal agency responsibility set forth under this order shall apply equally to Native American programs. In addition, the Department of the Interior, in coordination with the Working Group, and, after consultation with tribal leaders, shall coordinate steps to be taken pursuant to this order that address Federally-recognized Indian Tribes.

**6-607. *Costs.*** Unless otherwise provided by law, Federal agencies shall assume the financial costs of complying with this order.

**6-608. *General.*** Federal agencies shall implement this order consistent with, and to the extent permitted by, existing law.

**6-609. *Judicial Review.*** This order is intended only to improve the internal management of the executive branch and is not intended to, nor does it create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity by a party against the United States, its agencies, its officers, or any person. This order shall not be construed to create any right to judicial review involving the compliance or noncompliance

of the United States, its agencies, its officers, or any other person with this order.

*William J. Clinton*

THE WHITE HOUSE,  
*February 11, 1994.*

State &amp; County QuickFacts

Try the today and tell us what you think!

## Norton city, Virginia

People QuickFacts	Norton city	Virginia
Population, 2014 estimate	4,031	8,326,289
Population, 2013 estimate	4,017	8,270,345
Population, 2010 (April 1) estimates base	3,946	8,001,023
Population, percent change - April 1, 2010 to July 1, 2014	2.2%	4.1%
Population, percent change - April 1, 2010 to July 1, 2013	1.8%	3.4%
Population, 2010	3,958	8,001,024
Persons under 5 years, percent, 2013	5.6%	6.2%
Persons under 18 years, percent, 2013	22.1%	22.6%
Persons 65 years and over, percent, 2013	14.2%	13.4%
Female persons, percent, 2013	53.2%	50.8%
-----		
White alone, percent, 2013 (a)	89.0%	70.8%
Black or African American alone, percent, 2013 (a)	6.7%	19.7%
American Indian and Alaska Native alone, percent, 2013 (a)	0.3%	0.5%
Asian alone, percent, 2013 (a)	1.5%	6.1%
Native Hawaiian and Other Pacific Islander alone, percent, 2013 (a)	Z	0.1%
Two or More Races, percent, 2013	2.5%	2.7%
Hispanic or Latino, percent, 2013 (b)	2.5%	8.6%
White alone, not Hispanic or Latino, percent, 2013	86.7%	63.6%
-----		
Living in same house 1 year & over, percent, 2009-2013	82.6%	84.7%
Foreign born persons, percent, 2009-2013	2.5%	11.3%
Language other than English spoken at home, pct age 5+, 2009-2013	3.0%	14.9%
High school graduate or higher, percent of persons age 25+, 2009-2013	81.4%	87.5%
Bachelor's degree or higher, percent of persons age 25+, 2009-2013	20.5%	35.2%
Veterans, 2009-2013	265	726,470
Mean travel time to work (minutes), workers age 16+, 2009-2013	15.0	27.7
Housing units, 2013	1,939	3,412,460
Homeownership rate, 2009-2013	52.7%	67.3%
Housing units in multi-unit structures, percent, 2009-2013	27.2%	21.7%
Median value of owner-occupied housing units, 2009-2013	\$88,000	\$244,600
Households, 2009-2013	1,706	3,022,739
Persons per household, 2009-2013	2.31	2.60
Per capita money income in past 12 months (2013 dollars), 2009-2013	\$22,699	\$33,493
Median household income, 2009-2013	\$39,416	\$63,907
Persons below poverty level, percent, 2009-2013	18.1%	11.3%
-----		
Business QuickFacts	Norton city	Virginia
Private nonfarm establishments, 2012	248	192,730 <sup>1</sup>
Private nonfarm employment, 2012	4,527	3,089,241 <sup>1</sup>
Private nonfarm employment, percent change, 2011-2012	-2.3%	2.0% <sup>1</sup>
Nonemployer establishments, 2012	217	529,636
-----		
Total number of firms, 2007	474	638,643
Black-owned firms, percent, 2007	F	9.9%
American Indian- and Alaska Native-owned firms, percent, 2007	F	0.5%
Asian-owned firms, percent, 2007	F	7.0%

Native Hawaiian and Other Pacific Islander-owned firms, percent, 2007	F	0.1%
Hispanic-owned firms, percent, 2007	F	4.5%
Women-owned firms, percent, 2007	27.2%	30.1%
-----		
Manufacturers shipments, 2007 (\$1000)	D	92,417,797
Merchant wholesaler sales, 2007 (\$1000)	94,162	60,513,396
Retail sales, 2007 (\$1000)	283,790	105,663,299
Retail sales per capita, 2007	\$76,514	\$13,687
Accommodation and food services sales, 2007 (\$1000)	17,292	15,340,483
Building permits, 2013	0	31,944

<b>Geography QuickFacts</b>	<b>Norton city</b>	<b>Virginia</b>
Land area in square miles, 2010	7.48	39,490.09
Persons per square mile, 2010	529.1	202.6
FIPS Code	720	51
Metropolitan or Micropolitan Statistical Area	Big Stone Gap, VA Micro Area	

1: Includes data not distributed by county.

- (a) Includes persons reporting only one race.
- (b) Hispanics may be of any race, so also are included in applicable race categories.

D: Suppressed to avoid disclosure of confidential information  
 F: Fewer than 25 firms  
 FN: Footnote on this item for this area in place of data  
 NA: Not available  
 S: Suppressed; does not meet publication standards  
 X: Not applicable  
 Z: Value greater than zero but less than half unit of measure shown

Source U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, American Community Survey, Census of Population and Housing, State and County Housing Unit Estimates, County Business Patterns, Nonemployer Statistics, Economic Census, Survey of Business Owners, Building Permits  
 Last Revised: Tuesday, 31-Mar-2015 18:01:13 EDT

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PEOPLE & HOUSEHOLDS
SPECIAL TOPICS
NEWSROOM

**L E N O W I S C O**  
**PLANNING DISTRICT COMMISSION**

**MEMORANDUM**

TO: File

FROM: Jimmy Adkins, Regional Planner

DATE: January 27, 2015

**SUBJECT: Lower Guest River Sewer Line Extension Project – Environmental Justice**

---

There will be no low-to-moderate income households adversely affected by the subject project.



Jimmy Adkins

LENOWISCO Planning District Commission



P.O. Box 366 • Duffield, VA 24244-0366  
Phone: 276/431-2206 FAX: 276/431-2208

*Virginia Planning District One • Serving Lee-Norton-Wise-Scott*



## Jimmy Adkins

---

**From:** Jimmy Adkins [jadjkins@lenowisco.org]  
**Sent:** Wednesday, September 17, 2014 1:27 PM  
**To:** russtown@nc-cherokee.com; michhick@nc-cherokee.com  
**Cc:** Jimmy Adkins  
**Subject:** Environmental Review Comment Request  
**Attachments:** Lower Guest River Scope letter.pdf; Lower Guest River Environmental Review Project Abstract.pdf; Lower Guest River EA Map.pdf; Lower\_Gst\_Rivr\_Swr.pdf

Good afternoon, Russell and Michell.

Please find attached the scope letter, project abstract, topographic map, and satellite image of project area for the Lower Guest River Sewer Line Extension Project.

This will be a construction ready application to Virginia's Department of Housing and Community Development, somewhat different than the typical Community Development Block Grant. What that entails is complete design/specs are complete and VDH approved, all required permits received and the environmental review completed at the time of application.

I certainly hope the opportunity arises for your response to be processed and returned within the 30 day request period. If there is any further information you may need, please let me know.

I greatly appreciate your time and consideration in helping us in this expedited process.

*Jimmy*

Jimmy Adkins  
Regional Planner  
LENOWISCO  
PO Box 366  
Duffield, VA 24244  
276.431.2206 ext 16



\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10432 (20140917)  
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The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10432 (20140917)  
\_\_\_\_\_

## Jimmy Adkins

---

**From:** Tyler B. Howe [tylehowe@nc-chokeee.com]  
**Sent:** Thursday, September 18, 2014 1:30 PM  
**To:** 'john.e.hall@hud.gov'  
**Cc:** 'Gilley, Christina (DHCD)'; jadkins@lenowisco.org  
**Subject:** Score(\*\*\*\*\*)EBCI THPO comments for proposed Lower Guest River Sewer Line Extension Project, Wise County, VA

Mr. Hall:

The Eastern Band of Cherokee Indians Tribal Historic Preservation Office (EBCI THPO) has reviewed the materials provided for the proposed Lower Guest River Sewer Line Extension project located in Wise County, Virginia. The EBCI THPO does not believe that cultural resources important to the Cherokee people should be adversely impacted by the proposed federal undertaking. As such, it is the opinion of the EBCI THPO the proposed federal undertaking may proceed as planned. In the event that cultural resources or human remains are encountered during the construction phase, this office request all work to cease and to be notified to continue the consultation process to determine the best course of action so the project may proceed.

Sincerely,

Tyler B. Howe  
Tribal Historic Preservation Specialist  
Eastern Band of Cherokee Indians  
(828) 554-6852

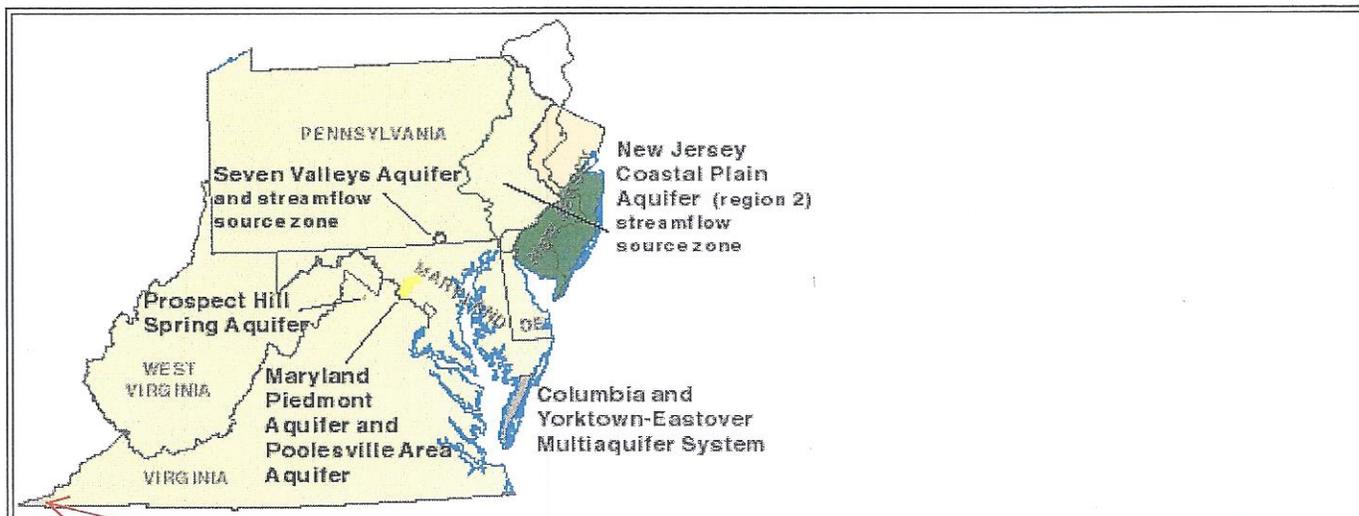
\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus signature database 10433 (20140917)  
\_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

# Designated Sole Source Aquifers in EPA Region III

District of Columbia, Delaware, Maryland, Pennsylvania, Virginia, West Virginia



EPA Region 3  
 Dale Long  
 Water Protection Division  
 1650 Arch Street  
 Philadelphia, PA 19103-2029  
 phone: (215) 814-5779  
 e-mail: [long.dale@epa.gov](mailto:long.dale@epa.gov)

**Project Area**

The 6 Sole Source Aquifer designations in Region III are listed below. Contact the coordinator above for more information. For information on the NJ SSA visit the [Region 2](#) site.

## SOLE SOURCE AQUIFERS IN REGION III:

State	Sole Source Aquifer Name	Federal Register Citation	Publication Date
*DE/PA/NJ	New Jersey Coastal Plain Aquifer	53 FR 23791	06/24/88
MD	Maryland Piedmont Aquifer Montgomery, Howard, Carroll Counties	45 FR 57165	08/27/80
MD	Poolesville Area Aquifer Extension of the Maryland Piedmont Aquifer	98 FR 3042	02/06/98
PA	Seven Valleys Aquifer, York County	50 FR 9126	03/06/85
VA	Prospect Hill Aquifer, Clark County	2 FR 21733	06/09/87
VA	Columbia and Yorktown, Eastover Multi-aquifer System Accomack and North Hampton Counties	62 FR 17187	04/09/97

\*The New Jersey Coastal Plains Aquifer is jointly managed with Region II.

**Return to: [Sole Source Aquifer program home page](#)**



# NATIONAL WILD AND SCENIC RIVERS SYSTEM



- HOME
- NATIONAL SYSTEM
- MANAGEMENT
- RESOURCES
- PUBLICATIONS
- CONTACT US
- KID'S SITE

## VIRGINIA

Virginia has approximately 49,350 miles of river, but no designated wild & scenic rivers.

Virginia does not have any designated rivers.

### EXPLORE DESIGNATED RIVERS



Choose a State

Choose a River

*While progress should never come to a halt, there are many places it should never come to at all. — Paul Newman*



- NATIONWIDE RIVERS INVENTORY
- KID'S SITE
- CONTACT US
- PRIVACY NOTICE
- Q & A SEARCH ENGINE
- SITE MAP

**Designated Rivers**

About WSR Act  
State Listings  
Profile Pages

**National System**

WSR Table  
Study Rivers  
Stewardship  
WSR Act Legislation

**River Management**

Council  
Agencies  
Management Plans  
GIS Mapping

**Resources**

Q & A Search  
Bibliography  
Publications  
GIS Mapping  
Logo & Sign Standards  
Display

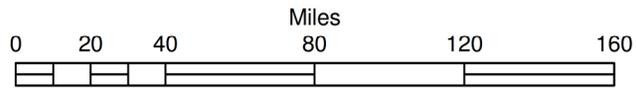
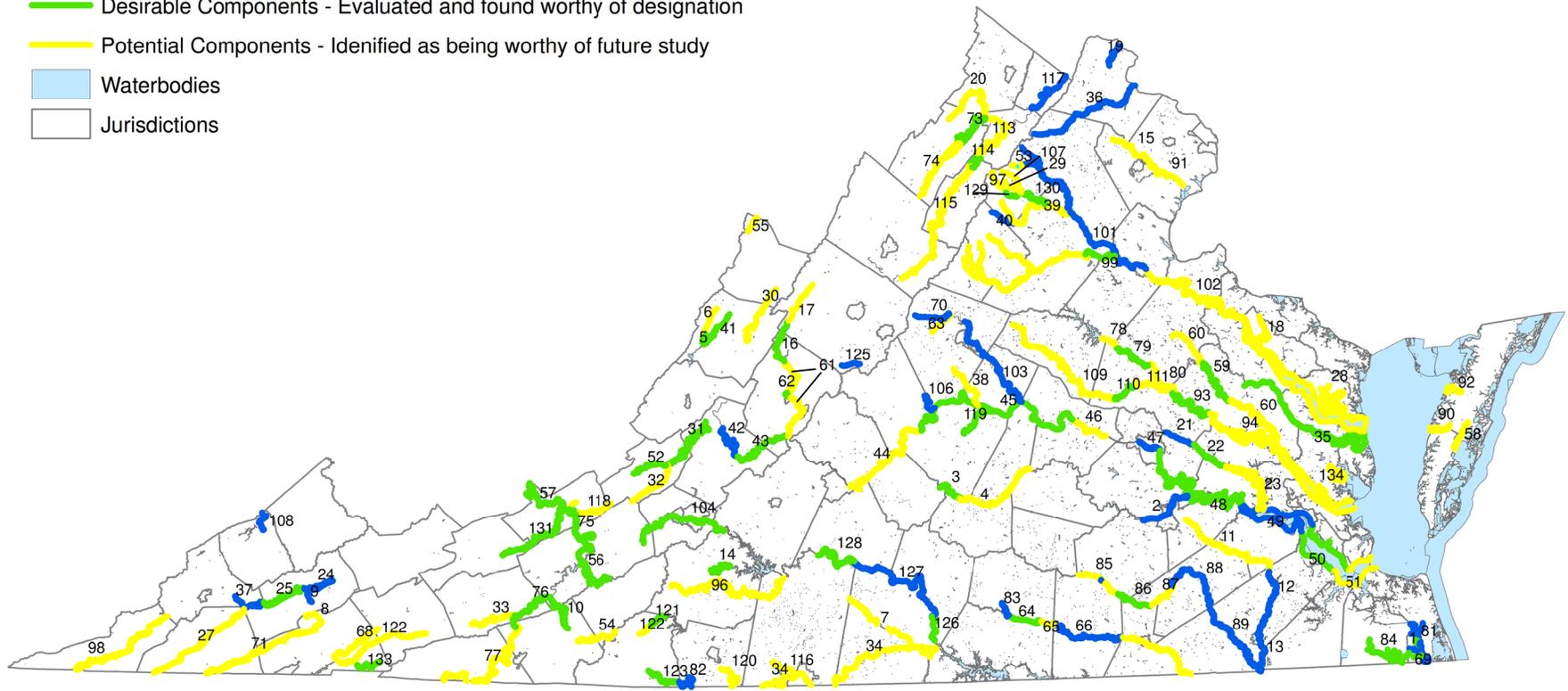
# Scenic Rivers



## Legend

### STATUS

-  Scenic Rivers - Legislatively designated components
-  Desirable Components - Evaluated and found worthy of designation
-  Potential Components - Identified as being worthy of future study
-  Waterbodies
-  Jurisdictions



# Virginia Scenic Rivers and Desirable and Potential River Components, 2011

1. **Alton's Creek**  
Entire River
2. **Appomattox River\***  
100 ft from Lake Chesdin Dam  
To James River
3. **Appomattox River**  
Rte. 612 to Rte. 608
4. **Appomattox River**  
Rte. 608 to Powhatan Co. line
5. **Back Creek**  
Blowing Springs to Lake Moomaw
6. **Back Creek**  
Dam Hollow at Sunrise to  
Blowing Springs
7. **Banister River**  
Halifax County
8. **Big Brumley Creek**  
Hidden Valley Lake to  
N. Fork Holston
9. **Big Cedar Creek\***  
Near Lebanon, 5.8 miles to  
Clinch River
10. **Big Reed Island Creek**  
Rte. 693 to New River
11. **Blackwater River**  
Headwaters to Proctor's Bridge at  
Rte. 621
- 12 & 13. **Blackwater River\***  
Proctor's Bridge at Rte. 621 to  
Nottoway River – VA - NC line
14. **Blackwater River**  
Rte. 220 to Smith Mountain Lake
15. **Bull Run**  
Entire River
16. **Calfpasture River**  
Marble Valley to Maurey River
17. **Calfpasture River**  
Rte. 250 to Marble Valley
18. **Cat Point Creek**  
Rte. 622 to confluence with  
Rappahannock River
19. **Catoctin Creek\***  
Town of Waterford to Potomac River
20. **Cedar Creek**  
Headwaters to N. Fork  
Shenandoah River
21. **Chickahominy River\***  
Rte. 360 to Hanover, Henrico,  
New Kent Co. line
22. **Chickahominy River**  
New Kent, Henrico, Charles Co.  
line to Rte. 618 Bridge
23. **Chickahominy River**  
Bottoms Bridge (Rte. 60) to  
James River
24. **Clinch River\***  
Little River to Rte. 645 - Nash Ford  
Bridge
25. **Clinch River**  
Nash Ford to Rte. 58
26. **Clinch River\***  
Rte. 58 (St. Paul) to Guest River
27. **Clinch River**  
Guest River to VA - TN line
28. **Corrotoman River**  
Lancaster County
29. **Covington River**  
Rappahannock County
30. **Cowpasture River**  
Rte. 614 near Patna to  
Rte. 42 At Millboro Springs
31. **Craig Creek**  
Newcastle to Strom
32. **Craig Creek**  
Headwaters to New Castle
33. **Cripple Creek**  
Speedwell to New River
34. **Dan River**  
Entire River in Virginia
35. **Dragon Run**  
Headwaters to Piankatank River
36. **Goose Creek\***  
Confluence of N/S prongs of  
Goose Creek to Potomac River
37. **Guest River\***  
Rte. 72 to Clinch River
38. **Hardware River**  
Rte. 708 to James River
39. **Hazel River**  
Rappahannock County to  
Rappahannock River
40. **Hughes River\***  
SNP to Hazel River
41. **Jackson River**  
Rte. 623 to Lake Moomaw
42. **James River\***  
0.2 miles SE Rte. 43 (Eagle Rock) to  
Rte. 630 bridge (Springwood)
43. **James River**  
Springwood to Glasgow
44. **James River**  
Lynchburg to Wingina
45. **James River**  
Wingina to Maidens
46. **James River**  
Maidens to Watkins Landing
47. **James River\***  
West limits of Richmond to  
Orleans Street (extended)
48. **James River**  
Orleans Street (extended)  
to Surrey County
49. **James River\***  
Surrey County to Lawnes Creek  
(James City/ Surrey Co.)
50. **James River**  
James City Co./ Newport News  
border to Isle of Wight/ Suffolk line
51. **James River**  
Isle of Wight/ Suffolk line to  
Chesapeake Bay
52. **Johns Creek**  
Craig Springs to New Castle
53. **Jordan River\***  
Rte. 522 to Rappahannock River
54. **Laurel Fork**  
Headwaters to Big Island Creek
55. **Laurel Fork**  
Headwaters to the VA - WVA line
56. **Little River**  
Rte. 8 to New River
57. **Little Stony River**  
Headwaters to New River
58. **Machipongo River**  
Entire River
59. **Mattaponi River**  
Rte. 628 to Walkerton Bridge  
(Rte. 629)
60. **Mattaponi River**  
Entire River (see item 59)
61. **Maury River**  
Entire River (see item 62)
62. **Maury River**  
Limekiln Bridge to Lexington
63. **Mechums River**  
Entire River
64. **Meherrin River**  
N. Meherrin River to Rte. 138
65. **Meherrin River**  
Rte. 138 to the Brunswick Co. line
66. **Meherrin River\***  
Brunswick/ Lunenburg/Mecklenburg  
Co. line to Brunswick/ Greenville  
Co. line
67. **Meherrin River**  
Greensville, Southampton  
Counties to VA - NC line
68. **Middle Fork Holston River**  
Seven Mile Ford to Holston Lake
69. **Milldam Creek**  
Entire River
70. **Moormans River\***  
Charlottesville Reservoir to  
Mechums River
71. **N. Fork Holston River**  
Big Brumley Creek to VA - TN line
72. **N. Fork Shenandoah River**  
Cedar Creek to Front Royal
73. **N. Fork Shenandoah River**  
Burnshire Bridge (Rte. 758) to  
Cedar Creek at Stasburg
74. **N. Fork Shenandoah River**  
New Market to the Burnshire  
Bridge
75. **New River**  
Claytor Lake to VA - WVA line
76. **New River**  
Buck Dam to Reed Junction
77. **New River**  
VA - NC line to Buck Dam
78. **North Anna River**  
Lake Anna to Rte. 738  
(Anderson Bridge)
79. **North Anna River**  
Rte. 738 to Rte. 1 at Chandler  
Crossing
80. **North Anna River**  
Rte. 1 at Chandler Crossing to  
Pamunkey River
81. **North Landing River\***  
North Landing Road (Rte. 165) to VA  
- NC line
82. **North Mayo River\***  
Rte. 695 to VA - NC line
83. **North Meherrin River\***  
Rte. 712 to South Meherrin River
84. **Northwest River**  
Entire River
85. **Nottoway River**  
Brunswick, Dinwiddie Co.  
line to Rte. 609
86. **Nottoway River**  
Rte. 609 to Rte. 630
87. **Nottoway River**  
Rte. 630 to Rte. 40 bridge  
at Stony Creek
- 88 & 89. **Nottoway River\***  
Rte. 40 (Stony Creek) to Blackwater  
River – VA - NC line
90. **Ocohanock Creek**  
Entire River
91. **Occoquan River**  
Entire River
92. **Onancock Creek**  
Entire River
93. **Pamunkey River**  
Rte. 614 to Pampatike Landing
94. **Pamunkey River**  
Entire River (see item 93)
95. **Piankatank River**  
Dragon Run to Chesapeake Bay
96. **Pigg River**  
Entire River in Franklin and  
Pittsylvania Counties
97. **Piney River**  
Rappahannock County
98. **Powell River**  
Lee County
99. **Rapidan River**  
Germanna Ford to Rappahannock  
River
100. **Rapidan River**  
Headwaters to Germanna Ford
101. **Rappahannock River\***  
Headwaters to Rte. 3 at Ferry Farm
102. **Rappahannock River**  
Rte. 3 Bridge at Ferry Farm to  
Chesapeake Bay
103. **Rivanna River\***  
South Fork Rivanna River reservoir  
to James River
104. **Roanoke River**  
Shawsville to Smith Mtn. Lake
105. **Robinson River**  
Madison County
106. **Rockfish River\***  
Rte. 693 at Schuyler to James River
107. **Rush River**  
Rappahannock County
108. **Russell Fork\***  
Splashdam railroad crossing to VA -  
KY line
109. **S. Anna River**  
Lake Gordonsville to Rte. 673
110. **S. Anna River**  
Rte. 673 to Rte. 686
111. **S. Anna River**  
Rte. 686 to Pamunkey River
112. **S. Fork Holston River**  
Sugar Grove to South  
Holston Lake
113. **S. Fork Shenandoah River**  
Overall to Front Royal
114. **S. Fork Shenandoah River**  
Goodes Mill to Overall
115. **S. Fork Shenandoah River**  
Port Republic to Goods Mill
116. **Sandy River**  
Pittsylvania County
117. **Shenandoah River\***  
Warren/Clarke Co. line to VA -  
WVA line
118. **Sinking Creek**  
Rte. 680 to New River
119. **Slate River**  
Rte. 20 to James River
120. **Smith River**  
Reds Creek to VA - NC line
121. **Smith River**  
Rte. 704 to Philpott Reservoir
122. **Smith River**  
Rte. 8 to Rte. 704
123. **South Mayo River\***  
[Designated Patrick Co. to VA - NC  
line] Stuart to VA - NC line
124. **South River**  
Greene County
125. **St. Marys River\***  
Augusta Co. headwaters to GW-Jeff  
National Forest
126. **Staunton River**  
Rte. 360 to Staunton River  
State Park
127. **Staunton River\***  
Rte. 761 (Long Island) to Rte. 360
128. **Staunton River**  
Town of Altavista to Long Island
129. **Thornton River**  
Entire River (see no.130)
130. **Thornton River**  
Fletchers Mill (Rte. 522)  
to Rte. 729
131. **Walker Creek**  
Point Pleasant to New River
132. **Ware River**  
Gloucester County
133. **Whitetop Laurel Creek**  
Green Cove Creek to Damascus
134. **York River**  
Entire River

\* Designated scenic rivers



Virginia Segments

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**Authorizations /History / Eligibility Descriptions /Outstandingly Remarkable Values /Potential Classification / Wild and Scenic Rivers System**

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River	County	Reach	Length (miles)	Year Listed/ Updated	Potential Classification	ORVs	Description
Appomattox River	Prince Edward, Cumberland, Buckingham, Appomattox	Farmville to headwaters	44	1982		H, O	Wild-(Longest, largest, least developed river in the Piedmont upland section.)  Historic-(Flows through the Appomattox Court House National Historic Park.)
Appomattox River	Amelia, Chesterfield, Powhatan, Cumberland	Lake Chesdin to Farmville	70	1982		H, O	Wild-(Longest, largest, least developed river in the Piedmont Upland Section.)  Historic-(Wigwam National Historic Register Site.)
Back Creek	Bath, Highland	Confluence with the Jackson to headwaters	34	1982		G, C	Geologic-(Segment contains Mountain Gorge, 5 1/2 miles long with an average gradient of 50 feet per mile, and vertical walls of 1000 feet.)  Cultural-(Segment is in proximity to the ruins of Mount Torrey Furnace which produced iron in the

							1880's.)
Big Otter River	Bedford, Campbell	Roanoke River to North Otter Creek	33	1982		G, O	Geologic-(300' cliffs north of confluence with Roanoke. Significant topographic diversity and variation for entire length of segment.)  Botanic-(Rare, virgin tract of hemlock-dominated relict forest north of route 29.)
Big Otter River	Bedford	North Otter Creek to headwaters	9	1982		O	Hydrologic-(One of the last sparsely developed representative free-flowing rivers in the section.)
Big Reed Island Creek	Carroll, Pulaski	New River to headwaters	53	1982		S, G	Geologic-(The last significant medium order river in this section with representative topographical features which is largely undeveloped.)  Scenic-(A regionally unique juxtaposition and combination of stream channel diversity, significant topography and forest cover which provide a full range of land and water environments and spatial experience.)
Blackwater River	Southampton, Nansemond	Confluence with Nottoway and Chowan Rivers to George Bend	7	1982		O	Botanic-(Part of 10,000 acres of bogs and pine barrens with rare plants including northern and southern relicts.)
Blackwater River	Prince George, Southampton, Sussex, Isle of Wight, Surry	Franklin to headwaters	62	1982		O	Botanic-(Rare bog plants, extensive stands of cypress, northern and southern vegetation relicts. Also near Virgin Cypress-Gum Swamp presently adjacent near Dendron.)
Bull Run	Prince William, Fairfax	West of Route 66 to Route 659	5	1982		H	Historic-(Site of Manassas National Battlefield Park and stone bridge across the creek where in 1861 and 1862, the Battles of Bull Run were fought for control of Manassas Junction and its rail lines.)
Bullpasture River	Bath, Highland	Confluence with the Cowpasture at Williamsville to headwaters	21	1982		S, R, H, O	See Cowpasture River comments.

Catoctin Creek	Loudoun	Confluence with the Potomac River to Waterford	14	1982		R, H	Historic-(Segment contains the Catoctin Creek Bridge (c.1900), one of the diminishing number of Pratt iron truss bridges once common to the area; a National Historic Register site on Route 673 near the town of Waterford. The segment passes through the Waterford and Taylorstown Historic Districts, both having National and Virginia Historic Register Status. The segment possesses two of the three remaining 18th Century grist mills in Loudon County.)
Cedar Creek	Shenandoah , Frederick	Route #622 bridge to headwaters	25	1982		R, G, H, C	Historic-(Segment includes the Cedar Creek Battlefield and Belle Grove mansion, both National Historic Register Sites and the locations of the Union victory which insured final control of the Shenandoah Valley during the Civil War.)  Recreation-(Considered to be the most popular whitewater stream in Virginia and one of the most popular in the region.)
Chickahominy River	Henrico, Hanover, New Kent, Charles City	Providence Forge to Rt. 360	25	1982		R, O	Botanic-(Well developed cypress-gum swamp forest and bottomland hardwood forest which includes 3 rare, endemic and possibly endangered plants.)  Recreation-(Unique proximity to a high concentration of urban population in Richmond.)
Chickahominy River	James City, Charles City, Kent	James River to Providence Forge	30	1982		G, O	Botanic-(An extensive, well developed cypress-gum swamp forest and bottomland hardwood forest which includes three rare, endemic and possibly endangered species of plants.)  Geologic-(Extreme topographic diversity including cliffs up to 100 feet high at Fish Hole Landing.)
Clinch River	Russell	Blackford to Nash Ford (includes Tributary Big Creek)	25	1982		O	Hydrologic-(One of the last 3 remaining undeveloped, medium order rivers in the section.)
Coan River	Northumberland	Confluence with	6	1982		O	See Potomac River (segment from the confluence

	and	the Potomac River to headwaters					with the Chesapeake Bay to Ragged Point Beach) comments.
Covington River	Rappahannock	Rock Mills to Smedley	7	1982		R	Recreation-(Segment is noted for including some of the biggest rapids and more of them than any small stream in Northern Virginia. The difficulty rating ranges from Class 2-4 with an average gradient of 34 feet per mile.)
Cowpasture River	Allegheny, Bath, Highland	Nicelytown to headwaters	65	1982		S, R, H, O	<p>Hydrologic-(The Cow and Bull Pasture River system is one of the largest unpolluted, unspoiled, and undisturbed river systems in the region.)</p> <p>Historic-(Segment includes numerous sites of historic significance. Some of these include Fort Lewis near Williamsville, old log cabins and log barns, paved road fords or underwater bridges.)</p> <p>Scenic-(The Bullpasture River is known as one of the most scenic tributaries in the James River Watershed and Bullpasture Gorge is noted as one of the most scenic in Virginia.)</p> <p>Recreation-(Segment's Bullpasture Gorge possesses Class 4 and 5 rapids and has an average gradient of 45 feet per mile. It also contains native brook trout in its headwaters and a state trout hatchery.)</p>
Craig Creek	Botetourt, Craig, Montgomery	Confluence with the James River to headwaters in the Jefferson National Forest	68	1982		R, G, H, C	<p>Historic-(Segment includes the Phoenix Bridge crossing, a National Historic Register Site in the vicinity of Eagle Rock. The bridge was built in 1887 and is a notable example of pre-fabricated bridges by one of the most important manufacturers, the Phoenix Bridge Company.)</p> <p>Recreation-(Segment is recognized as a clean, clear, free-flowing mountain stream in close proximity to the large public land holdings of the Jefferson National Forest and the City of Roanoke.)</p> <p>Cultural-(Segment corridor includes Mulberry Bottom, a locally significant historic dwelling dating</p>

							from 1786.)  Geologic-(Segment includes a classic example of an anticline, an arch of stratified rock in which layers bend downward in opposite directions from the crest.)
Cub Creek	Charlotte, Appomattox	Roanoke River to headwaters	33	1982		G, H	See Roanoke River comments.
Dan River	Patrick	Big Bend of Dan to Meadows of Dan	7	1982		R, G	Recreation-(Segment contains some of the best trout fishing in Virginia and one of a few streams that support trout from year to year.)  Geologic-(Segment includes a 7 1/2 mile long gorge in which the river's elevation drops 1200 feet, and the Pinnacles of Dan, a unique regional landmark and a candidate for the Natural Landmark program. The Pinnacles are steep rocky peaks which are covered by forests except for small outcroppings near the top.)
Dan River	Halifax, Pittsylvania	South Boston to North Carolina State line near Millton, NC	22	1982		R	Recreation-(Segment is accessible to the nationally significant and registered Danville Historic District and within the proximity of the population centers of Danville and Martinsville, Virginia, and Greensboro and Winston-Salem, North Carolina.)
Dan River	Patrick	North Carolina/Virginia state border to Townes Dam	15	1982		S, O	Scenic-(Segment is noteworthy for its interprovince descent from the more rugged and intimate landscape of the Blue Ridge Mountains to the more visually and culturally diverse piedmont region. The segment passes through the Kibler Valley, one of the most scenic and diverse valleys in Virginia.)  Ecologic-(Segment includes a possible critical habitat of the endangered Orange fin Mad tom.)
Deep Creek	Amelia, Nottoway	Appomattox River to headwaters	26	1982		O	Wild-(Corridor is nearly completely undeveloped.)
Dragon	King &	Piankatank River	38	1982		H, O	Botanic-(A wild freshwater Cypress-Gum swamp

Swamp River	Queen, Middlesex, Gloucester, Essex	to Powcan					forest.)  Historic-(Deer Chase is a nearby National Historic Register Site.)
Falling River	Campbell, Appomattox	Roanoke River to headwaters near Spout Springs	32	1982		G, H	See Roanoke River comments.
Glebe River	Northumberland and	Confluence with the Potomac River to headwaters	3	1982		O	See Potomac River (segment from the confluence with Chesapeake Bay to Ragged Point Beach) comments.
Goose Creek	Loudoun, Fauquier	Near Belmont Park to headwaters	35	1982		H	Historic-(Several National Historic Register Sites within and adjacent to the corridor.)
Goose Creek	Loudoun	Goose Creek Dam to Evergreen Mills	7	1982		R, H, C	Historic-(Several National Historic Register sites within and adjacent to the corridor including: Goose Creek Stone Bridge (c.1820)- an example of demiconical stone buttresses and segmental arched spans- originally part of Ashley's Gap Turnpike; Goose Creek Meetinghouse Complex (18-19th c.)- symbolizes the continuity of the Quaker tradition in northern Virginia. The complex contains the State's 2nd oldest Friends meeting house and the county's oldest public school.)  Recreation-(National area within close proximity to highly populated regions such as northern Virginia and Washington, D.C.)  Cultural-(Remnants of canal sites and locks from Goose Creek and Little River Navigation Company (1832) are located within the corridor.)
Great Wicomico River	Northumberland and	Confluence with the Chesapeake (Ingram Bay) to Crabbie Mill	10	1982		R, F, W, O	

Hardware River	Fluvanna, Albermarle	Confluence with the James River to South Fork of the Hardware headwaters	41	1982		R	Recreation-(South Fork's headwaters are unique because it is one of the smallest canoeing streams in the area yet has the most significant rapid of any stream in the State-- 40+ foot drop in 400 yards-- and is rated as a Class 5 stream.)
Hazel River	Fauquier, Culpeper, Rappahannock	Rapidan River to headwaters	43	1982		R, G, H	See Rappahannock River (segment from I-95 near Fredericksburg, VA to one mile past Rt. 620) comments.
Holston River, South Fork	Washington	Above Holston Lake to Loves Mill	18	1982		O	Hydrologic-(One of the last 3 remaining undeveloped, medium order rivers in the section.)
Jackson River	Allegheny, Bath, Highland	McClintic Bridge to headwaters	31	1982		R, G, C, O	Wild-(Segment still exhibits a true wilderness environment.)  Hydrologic-(Segment is in close proximity to Falling Springs Creek waterfall which cascades over 22 feet.)  Recreation-(Segment is within a highly scenic natural area near an estimated 400,000 people. Segment is in close proximity to the popular hot spring resorts above the valley floor.)  Geologic-(Segment possesses numerous gorges; Richardson, Hidden Valley, Big, Little Mountain, which are of significant geologic interest. Richardson Gorge is most noted for its 700 foot vertical walls.)
Jackson River	Bath	Gathright Dam to Clearwater Park	13	1982/ 1993	R	R, F	Contains wide variety of recreational facilities. Potential for outstanding trout stream.
Jackson River	Bath	Hidden Valley, Southern Boundary to State Route 623	7	1982/ 1993	S	S, H, C	Nearly continuous forest cover with a few open fields. Flats adjacent to river with some steep slide slopes for visual variety. Historic Warwick Mansion and prehistoric rock shelter.
Jackson River	Bath	McClintic Bridge to Hidden Valley	9	1982/ 1993	S	S, G	Ranges from small to medium in size with some large pools and boulders. Richardson Gorge shows

							outstanding geologic formations.
James River	Buckingham, Flovanna, Albermarle, Nelson	Big Island to Gladstone railroad yard	50	1982		S, R, G, H, O	<p>Geologic-(Cliff-like valley walls over 300' high adjacent to river. 78% of segment possesses significant islands the occurrence and distribution of which is unique to the section, province and region.)</p> <p>Scenic-(Significant and diverse juxtaposition and combination of land, land uses, water and vegetative elements.)</p> <p>Hydrologic-(A unique, high order, undeveloped river.)</p> <p>Historic-(River-related National Historic Register Sites at Bremo and Midway Mill.)</p> <p>Botanic-(An extremely rare arbor vitae, disjunct-relict community growing on calcareous bluffs at the confluence of the James and Tye Rivers. Site has the only known population of Arbor vitae in either the oak-pine forest or the southeastern evergreen forest regions.)</p>
James River	Rockbridge, Botetourt	East of Glassgow to east of Buchanan	17	1982		G, H, O	<p>Hydrologic-(A unique segment of a sparsely developed, high order river.)</p> <p>Historic-(Segment possesses numerous James River and Kanawha Canal structures dating from the late 18th century.)</p>
James River	York, Isle of Wight, Surry, James City, Charles City, Prince George	Mogarts Beach to Hopewell	62	1982		H	Historic-(One of the most significant historic, relatively undeveloped rivers in the entire northeast region. Within or adjacent to the corridor are 4 National Historic Register Sites and one National Historic Park.)
James River	Botetourt	West of Buchanan to Eagle Rock	16	1982		H, O	<p>Hydrologic-(A unique segment of a sparsely developed, high order river.)</p> <p>Historic-(Segment possesses James River and</p>

							Kanawha Canal structures and dams which date from the late 18th century, and aided both shipping and navigation from the upper reaches to the Chesapeake bay.)
James River	Henrico, Chesterfield, Goochland, Powhatan, Cumberland, Flovanna, Buckingham	Above Boshier Dam near Richmond to Bremono Bluff	55	1982		R, H	<p>Historic-(Segment includes numerous sites of historical significance. National Historic Register sites include Bremono Bluff Plantation, Muddy Creek Mill at Tamworth, Cartersville Bridge and Amphill Farm at Cartersville. Additional historic structures include Hardware Aqueduct, Rockfish Aqueduct, and numerous lock and canal structures of the James River and Kanawha Canal Navigation Company.)</p> <p>Recreation-(Numerous state fishery programs are located within the corridor and the James is noted for its smallmouth bass fishing.)</p>
Laurel Fork	Carroll	Confluence with Big Reed Is. to north of Jackson Knob	4	1982		S, G	See Big Reed Island Creek comments.
Little Bush Creek	Montgomery, Floyd	Confluence with the Little River to headwaters (above Hoffville)	13	1982		O	See Little River comments.
Little River	Pulaski, Montgomery, Floyd	New River to headwaters	93	1982		O	Hydrologic-(The longest relatively undeveloped, free-flowing river within the section.)
Mattaponi River	King William, King & Queen	Muddy Creek to Liberty Hall	23	1982		O	Botanic-(Rare, endemic and possibly endangered plants present.)
Maury River	Rockbridge	2 miles north of Buena Vista to the mouths of the Calfpasture and Little Calfpasture	24	1982		R, G, H, C, O	<p>Geologic-(Segment includes Goshen Pass, a geologically unique and scenic high mountain Appalachian canyon.)</p> <p>Botanic-(Goshen Pass possesses an undisturbed biological community of a typical oak-chestnut forest and is currently listed as a potential National</p>

							<p>Natural Landmark.)</p> <p>Historic-(Segment contains the only existing remains of a cub dam on the river at Savernake. This is a remnant from the James River and Kanawha Canal navigation system.)</p> <p>Recreation-(Segment of river in the proximity of Goshen Pass is noted to be the most exciting and most scenic whitewater river in Virginia. The rapids range from Class 3 to 5 and some drop 25 feet in less than 200 feet.)</p> <p>Cultural-(The river's original name was the North, but was renamed in 1873 for Commander Matthew Fontaine Maury, the father of oceanography.)</p>
Meherrin River	Greenville, Brunswick, Macklenburg, Lunenburg	Emporia to Route 1	37	1982		O	Wild-(Corridor and surrounding watersheds are essentially undeveloped.)
North Anna River	Caroline, Hanover, Spotsylvania	1.5 miles above Morris Bridge to Lake Anna	26	1982		R, H	<p>Historic-(Numerous historic mill sites and ruins, Civil War Battlefields and breastworks, and Indian artifact sites are located within the corridor.)</p> <p>Recreation-(One of the most popular whitewater canoe runs in Virginia. Segment includes a diversity of gradients including Fallsline Run, a Class 4 segment. Unique proximity to urban populations in Richmond and Fredericksburg. A noted smallmouth bass fishing river.)</p>
North Anna River	Caroline, Hanover	Pamunkey and South Anna River to Morris Bridge	6	1982		R, H	<p>Historic-(Numerous historic mill sites and ruins, Civil War battlefields and breastworks, and Indian artifact sites are located within the corridor.)</p> <p>Recreation-(Unique proximity to urban population in Richmond and Fredericksburg. A noted small-mouth bass fishing river.)</p>
North River	Augusta	North River Campground to	5	1993	S	S, R, G	Shallow with small pools and during high water contains sections of white water. Gorge contains

		Camp May Flather					several cliffs and rock formations. Heavily hiked and used for canoeing and kayaking during high water.
Northwest River	Norfolk	Virginia/North Carolina State line to headwaters at Cornland	12	1982		O	Ecologic-(The last remaining complete and representative example of a free flowing, undeveloped river within the Great Dismal Swamp area. The Swamp is a National Natural Landmark.)  Wild-(Corridor and surrounding watershed is essentially undeveloped.)
Nottoway River	Southampton, Sussex	North Carolina border to Fort Nottoway	82	1982		O	Botanic-(5 to 10,000 acres of cypress forest; longest river swamp in the entire northeast region. Corridor and surrounding area include significant amounts of cypress.)
Nottoway River	Sussex, Greenville, Dinwiddie, Brunswick, Nottoway	Fort Nottoway to Nottoway Reservoir	43	1982		O	Wild-(Corridor and surrounding watershed area is largely undeveloped.)
Pamunkey River	King William, New Kent	Herrick Creek to Liberty Hall	34	1982		O	Botanic-(One endemic plant present.)
Passage Creek	Shenandoah	Confluence with the North Fork of the Shenandoah to headwaters	31	1982		R, G, H, C	Geologic-(Segment drains Fort Valley of the Massanutten Mountains, a recognized geological phenomenon, and includes the Massanutten Gorge.)  Recreation-(Segment is a unique native trout stream habitat and includes a state fish hatchery.)  Historic-(Segment includes the site and ruins of Elizabeth's Furnace which has historical significance from both the Revolutionary and Civil Wars.)
Poropotank River	King and Queen, Gloucester	Confluence with the York River to headwaters	12	1982		O	See York River comments.

Potomac River	Northumberland, Westmoreland	Confluence with the Chesapeake Bay to Ragged Point Beach	23	1982		O	Hydrologic-(One of the largest (in CFS) free-flowing, sparsely developed, high order rivers in the northeast.)
Potomac River	Frederick, Washington, Loudoun, Jefferson	West of New Addition to Harpers Ferry	4	1982		G, O	Geologic-(River flows through a significant open low mountain at Weverton.)  Hydrologic-(One of two remaining, relatively undeveloped, free-flowing, high order river segments in the section.)
Potomac River	Montgomery, Loudoun, Fairfax	David Taylor Model Basin to Broad Run	20	1982		S, R, G, H, O	Hydrologic-(One of the largest (in CFS) free-flowing, relatively undeveloped high order rivers in the northeast.)  Historic-(The linear and river related Chesapeake and Ohio National Historic Parks within and parallel to the river corridor.)  Recreation-(Exceptional diversity of flow gradients. Unique proximity to urban populations in Washington D.C., Arlington, and Alexandria. Corridor contains unique areas for rock climbing.)  Scenic-(Significant and diverse juxtaposition and combination of land, land uses, water and vegetative elements.)  Geologic-(Rare gorges and cliffs up to 150 feet in height.)
Potomac River	Montgomery, Loudoun	Broad Run to north of Mason Island	13	1982		S, O	Scenic-(Significant and diverse juxtaposition and combination of land, land uses, water and vegetative elements.)  Hydrologic-(One of the largest (in CFS) free-flowing, sparsely developed remaining high order rivers in the section.)
Potomac River	Prince George, Charles	Nice Memorial Bridge to Sandy Point	24	1982		R, G, W, O	Hydrologic-(The largest in CFS and width, free-flowing, relatively undeveloped, high order river in the entire northeast region.)

							<p>Geologic-(Unique cliffs, bluffs and fossils at Pope's Creek. Unique features at Sim's Gorge.)</p> <p>Wildlife-(Unique occurrence of habitats of rare, endangered and unique birds, including bald eagles, herons, ospreys and egrets at Cedar Pt., Hilltop Fort, Smoot Tract and Taylor Neck.)</p> <p>Botanic-(Rare areas of plant diversity at Maryland Neck. Also spectacular old growth tulip poplar and oaks within Smoot Tract.)</p> <p>Historic-(Unique sunken fleet area within segment.)</p> <p>Recreation-(Area has been identified as the most exceptional area for forest game management on the entire lower Potomac.)</p>
Potomac River	Frederick, Loudoun	Near Monocacy River River aqueduct to R.R. yard at Brunswick	10	1982		S, O	Hydrologic-(One of the largest (in CFS) free-flowing, relatively undeveloped high order rivers in the northeast.)
Potomac River, South Fork of South Branch	Highland	1 mile south of Moorefield to Palo Alto	55	1982		R, G, O	See Potomac River, South Fork of South Branch, WV comments.
Powell River	Lee	Tennessee to U.S. Rt. 58 in Dryden	52	1982			
Rapidan River	Spotsylvania, Orange, Culpeper	Rappahannock River to north of Indian Town	16	1982		R, G, H	See Rappahanock River (segment from I-95 near Fredericksburg, VA to one mile past Rt. 620) comments.
Rapidan River	Madison	Graves Mill to headwaters	9	1982		R, O	<p>Recreation-(A unique and significant wild brook trout fishery.)</p> <p>Hydrologic-(One of the last remaining undeveloped,</p>

							low order rivers in this section.)
Rappahannock River	Spotsylvania, Stafford, Culpeper, Fauquier	I-95 near Fredericksburg, VA to one mile past Rt. 620	0	1982		R, G, H	<p>Historic-(Rapidan Dam Canal of the Rappahannock Navigation system is a linear National Historic Register site within the corridor.)</p> <p>Geologic-(Rare, significant topographical variation including cliffs over 200' high.)</p> <p>Recreation-(Possesses the largest and most diverse amount of flow gradient in the area. Unspoiled undeveloped stream readily accessible to large urban populations. Offers excellent small mouth bass fishing.)</p> <p>Historic-(Segment includes numerous site remains of locks and dams from canal days.)</p>
Rappahannock River	Essex, Richmond, Westmoreland, King George, Caroline	Tappahannock to Snow Creek	57	1982		G, H, O	<p>Hydrologic-(An extended segment of a sparsely developed, high order tidal river.)</p> <p>Botanic-(Unique 100' cliffs at Fones Cliffs, Owl Hollow, Moons Monument Wharf.)</p> <p>Historic-(National Historic District at Port Royal and Tappahannock.)</p>
Rivanna River	Fluvanna, Albermarle	Confluence with the James River to near the University of Virginia Airport	31	1982		O	Botanic-(An excellent representative example of a Piedmont Upland Hardwood Forest and Upland Pine Forest is within the corridor.)
Roanoke River	Charlotte, Halifax, Campbell, Pittsylvania	Kerr Reservoir to Altavista	58	1982		G, H	<p>Historic-(Segment includes the Green Hill National Historic Register Site.)</p> <p>Geologic-(Within the river is the Long Island, the size of which is unique to the section.)</p>
Robinson River	Culpeper, Madison	Confluence with the Rapidan River to Route #670 bridge	26	1982		R, H	Recreation-(Segment includes a variety of flow gradients including Class 3 rapids with numerous 2 to 3 foot ledges.)

							Historic-(Segment was in proximity of, and of strategic importance to, the Civil War battles of Cedar Mountain and the ensuing second battle at Manassas Junction.)
Rucker Run	Nelson	Confluence with the Tye River to 3 miles north of Canada Gap	6	1982		G	Geologic-(Unique water gap landform.)
Rush River	Rappahannock	Rock Mills to headwaters near Gravel Springs Gap	10	1982		R	Recreation-(Segment is noted as one of the more challenging whitewater canoe streams in the state. Its flow is very fast, rapids are rated at Class 2-4, and its average gradient is 32 feet per mile.)
Russell Fork River	Dickenson, Buchanan	Kentucky-Virginia line to White Creek	7	1982		R, G	Geologic-(Segment is within the largest and most characteristic part of the Cumberland Mts.- a great fault block. A structural feature of secondary importance is a north-south fault on the line between Pine Gay and Cumberland Gap, the latter being where the 3 states of Virginia, Kentucky and Tennessee come together.)  Recreation-(An outstanding and dangerous segment of whitewater starting prior to White Creek and continuing to Elkhorn City, Kentucky.)
Russell Fork River	Dickenson, Buchanan	Haysi to headwaters	24	1982		S	Scenic-(Segment offers a variety and diversity of views related to the juxtaposition of land, land use, vegetation and stream channel variation.)
Shenandoah River, North Fork	Shenandoah	Bridge Upstream Bowman Crossing to Strasburg	54	1982			
Shenandoah River, North Fork	Shenandoah	Route #648 at Strasburg to Edinburg	39	1982		R, G, H, C	Cultural-(The Shenandoah Valley of the North Fork was the primary valley and corridor for settlement throughout the colonial period. There are numerous historic and battle sites.)  Geologic-(Segment includes a section known as

							the Seven Bends of the North Fork--seven major loops in which the river reverses its direction. This segment has been classified as one of the most meandering of any river in the United States.)
Shenandoah River, South Fork	Warren, Page	Bixler Bridge to Karo Landing	36	1982		G	Geologic-(Segment includes Bixler Bridge area which is noted for its numerous geologic formations such as ledges and compressions that increase the power of the rapids.)
Shenandoah River, South Fork	Page, Warren	Within George Washington National Forest	36	1982/ 1993	R	R, F, H, C	Fishing, canoeing, tubing, swimming, and some hunting. Top quality smallmouth bass population. Catfish and sunfish. Several archeological sites. Historic use for carrying farm products.
Shenandoah River, South Fork	Warren and Page	From Route #677 Bridge above Front Royal to Route #675 Bridge below Springfield	36	1982/ 1995		S, G, H	Historic-The South Fork is considered to be one of the most significant rivers in the United States. The corridor includes sites of colonial forts, battles and wars, mills, factories, furnaces and mines, National Historic Register sites located at Port Republic, and active archeological digs at Front Royal. Scenic-The segment's eastern border is within the viewshed of the Blue Ridge Mountains and the river corridor meanders along the narrow valley floor in its numerous and classical S-shaped bends.
Shenandoah River, South Fork	Warren and Page	Route #677 Bridge above Front Royal to Route #675 Bridge below Springfield	36	1982			Historic-The South Fork is considered to be one of the most significant rivers in the United States. The corridor includes sites of colonial forts, battles and wars, mills, factories, furnaces and mines, National Historic Register Sites at Port Republic, and active archaeological digs at Front Royal.
Slate River	Buckingham	Confluence with the James River to headwaters	45	1982		G	Geologic-(A portion of the rare definitive belt of monadnocks of which the eastern limit is an important zone of faulting.)
South Anna River	Hanover	North Anna River to Gouldin	30	1982		R, H	See North Anna River (segment from Pamunkey and South Anna River to Morris Bridge) comments.
South Anna River	Hanover, Louisa, Orange	Gouldin to Route 15 crossing	70	1982		R, H	Historic-(The corridor includes numerous still sites and ruins.)  Recreation-(The longest, least developed, free-

							flowing, canoeable river in the state, region and section.)
St. Mary's River	Rockbridge, Augusta	Emory Church to headwaters	8	1982		O	Hydrologic-(An excellent example of an undeveloped low order river within an open low mountain area.)  Wild-(One of the few remaining completely undeveloped river segments within this section.)
Tye River	Nelson	Tyro to Montebello	13	1982		G	Geologic-(An excellent and representative example of a low order river within open low mountains.)
Tye River	Nelson	Confluence with the James River to north 12 miles on the Tye River	12	1982		O	Botanic-(Rare, virgin tract of hemlock-dominated relict forest.)
Ware River	New Kent, James City	Confluence with the York River to Richardson Millpond	5	1982		O	See York River comments.
Willis River	Cumberland, Buckingham	Confluence with the James River to headwaters (Appomattox State Forest)	55	1982		H	Historic-(Segment was part of the James River navigation system, but its locks were not the usual type. Instead flash locks were used and there are still a few signs of these, especially in the vicinity of Burdsville and Cava.)
Yarmouth Creek	James City	Chickahominy River to headwaters	7	1982		G, O	See Chickahominy River (segment from James River to Providence Forge) comments.
York River	James City, Gloucester	Almondsville to Plum Point	12	1982		O	Hydrologic-(An unique segment of sparsely developed, high order tidal river.)

Challenge Cost Share Program | Federal Lands to Parks | Hydropower Relicensing Program

Land and Water Conservation Fund | National Center for Recreation and Conservation | National Trails System

Partnership Wild and Scenic Rivers | Rivers and Trails Program | Urban Park and Recreation Recovery

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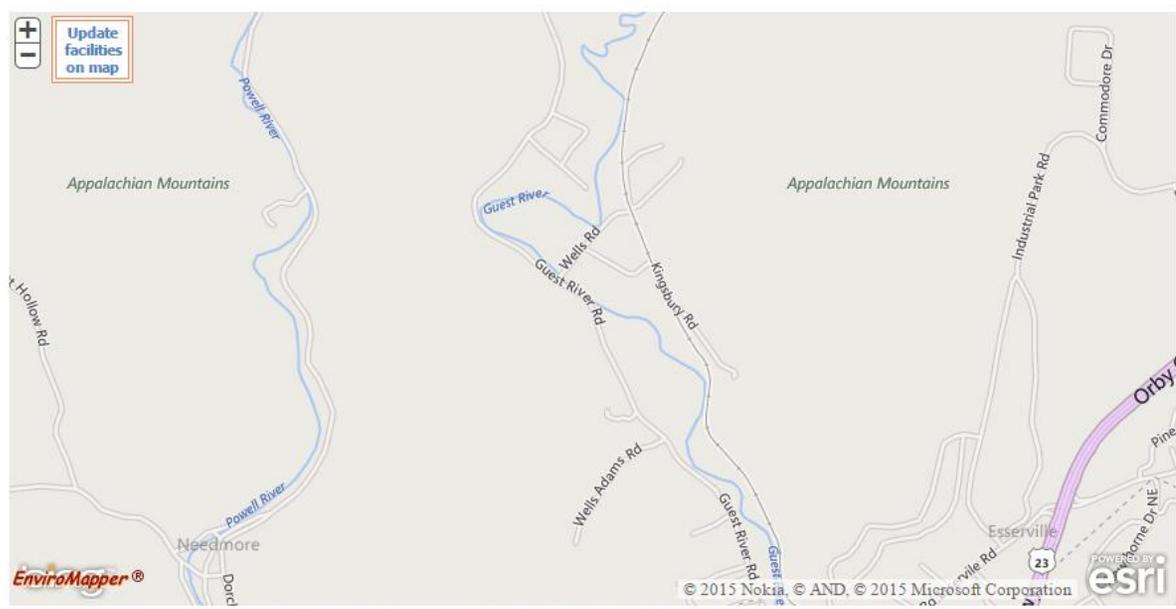
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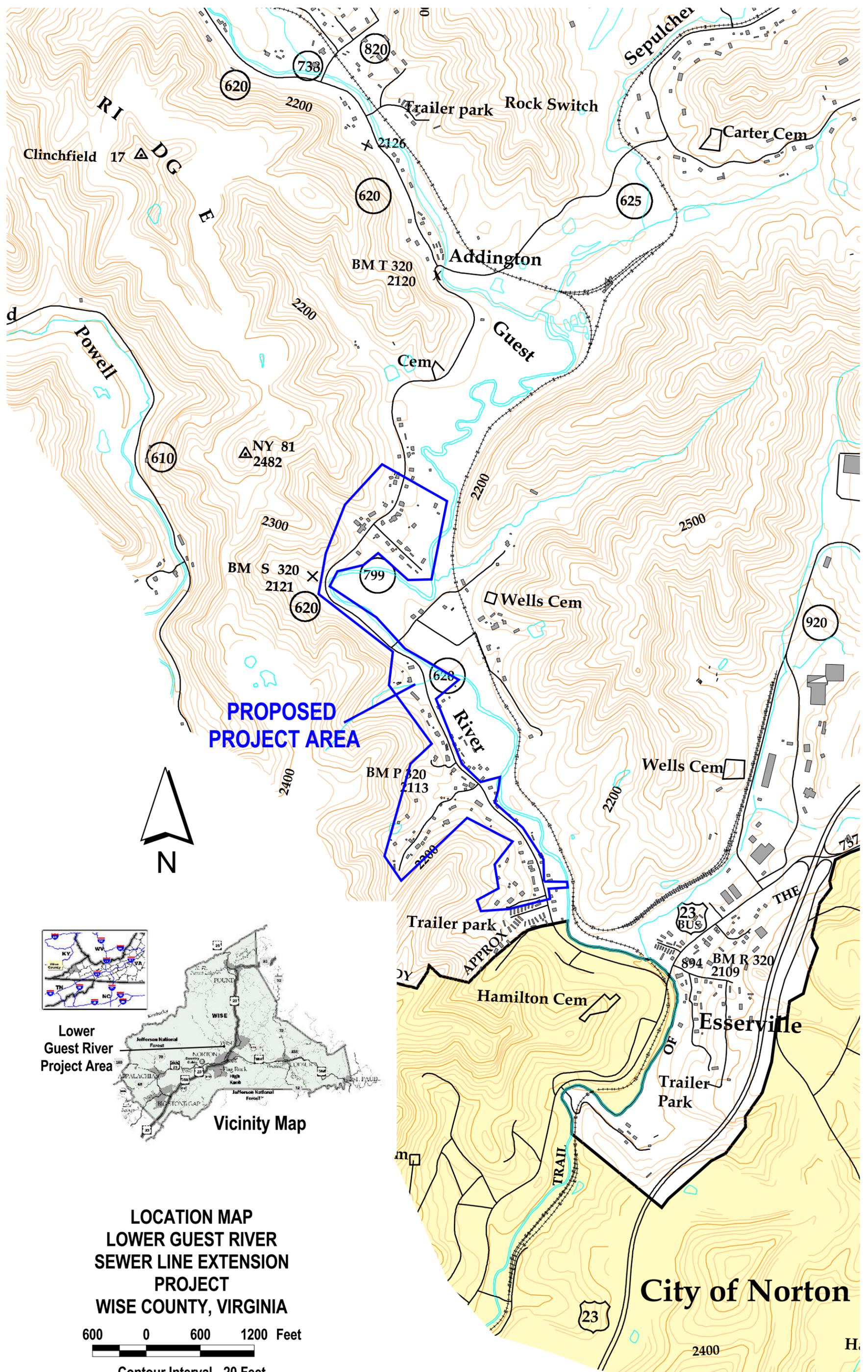
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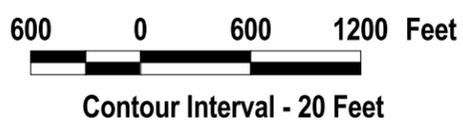
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**LOCATION MAP**  
**LOWER GUEST RIVER**  
**SEWER LINE EXTENSION**  
**PROJECT**  
**WISE COUNTY, VIRGINIA**



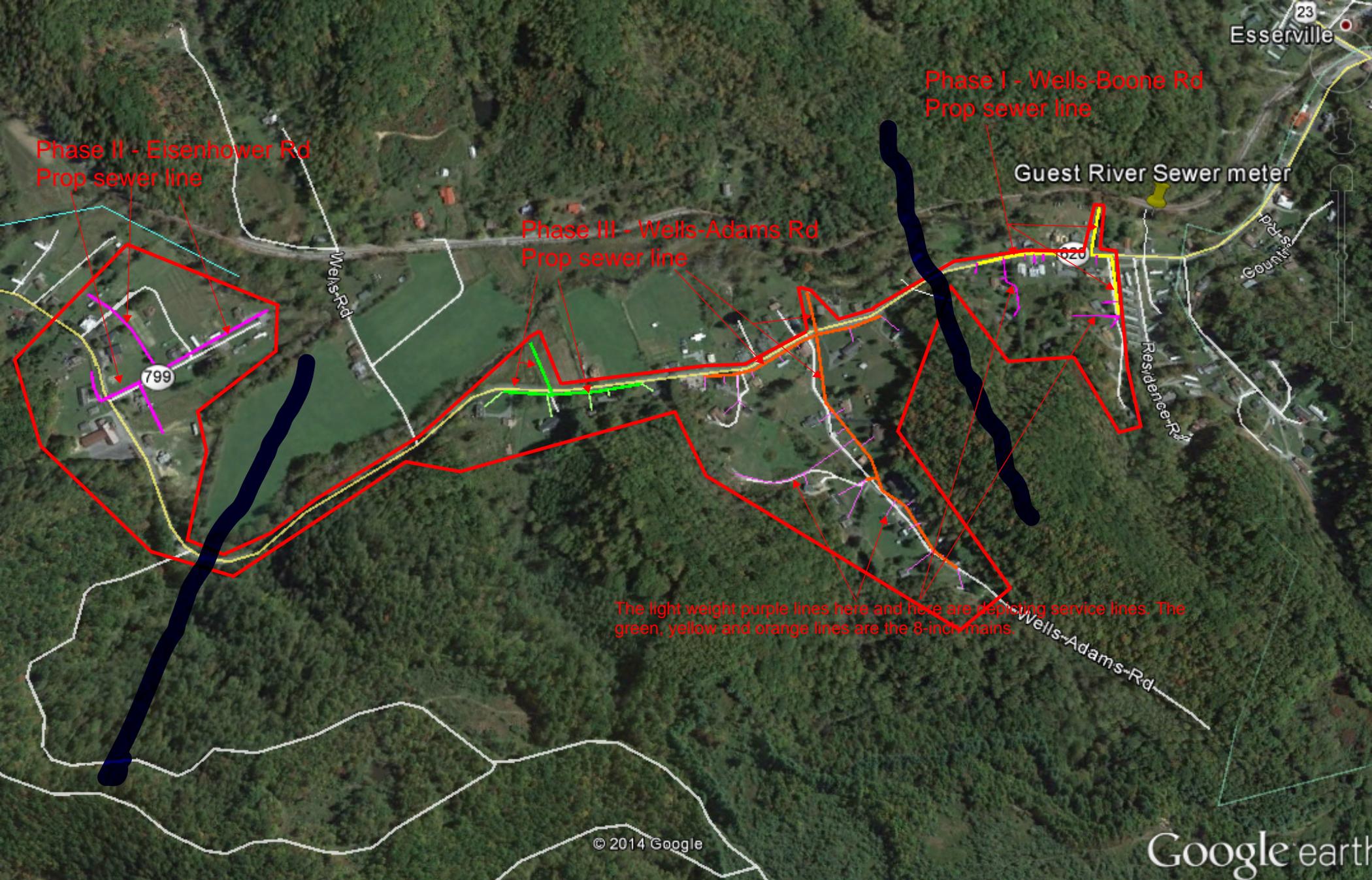
Phase II - Eisenhower Rd  
Prop sewer line

Phase I - Wells-Boone Rd  
Prop sewer line

Phase III - Wells-Adams Rd  
Prop sewer line

Guest River Sewer meter

The light weight purple lines here and here are depicting service lines. The green, yellow and orange lines are the 8-inch mains.



# LENOWISCO

## PLANNING DISTRICT COMMISSION

RE: Wise County Public Service Authority; Lower Guest River Sewer Line Extension Project

To Whom it may concern,

The LENOWISCO Planning District Commission is assisting the Wise County Public Service Authority (PSA) with its Lower Guest River Sewer Line Extension Project. The PSA is seeking funds from the Virginia Department of Housing and Community Development for construction of sewer line extensions for the Lower Guest River service area in Wise County. The project includes:

- Approximately 7,250 linear feet of 8-inch gravity sewer collection line
- Includes all applicable appurtenances to connect fifty two (52) residential customers to the Guest River interceptor by gravity

As of this time, funding is not available to construct the entire project. Therefore, a three-phase approach will be taken to complete the project. The Lower Guest River service area consists of three adjacent subareas which must be connected to the Guest River interceptor, and lie on or near Guest River Road. This environmental review will cover the entire project area of all three phases: Wells-Boone subarea Phase I, Eisenhower subarea Phase II and Wells-Adams sub area Phase III.

I have multiple enclosures for reference. They include:

- Project Abstract that includes project descriptions, locations and impact areas.
- Topographic map of the project area identifying the entire project area.
- A basic reference map from Google Earth identifying the project area boundary, proposed sewer lines and phase subareas.

An environmental review of the project is required to determine the direct and indirect environmental impacts of this project. Please forward me any information you may have which may be of significance to include in the environmental assessment. **Please respond within 30 days if possible.** We welcome you for a site visit if it would help your review process. If you have any questions or to schedule a site visit, please feel free to contact me at 276-431-2206 or [jadkins@lenowisco.org](mailto:jadkins@lenowisco.org).

Sincerely,



Jimmy Adkins  
Regional Planner



P.O. Box 366 • Duffield, VA 24244-0366  
Phone: 276/431-2206 FAX: 276/431-2208

Virginia Planning District One • Serving Lee-Norton-Wise-Scott



## PROJECT ABSTRACT

**Project Name:** Lower Guest River Sewer Line Extension Project

### Applicant Contact Information

Locality/Organization Name: Wise County Public Service Authority  
Address: 5622 Industrial Park Road  
Norton, VA 24273  
Environmental Certifying Officer: Alan Harrison  
Title: Executive Director  
Phone Number of Contact: 276.679.1263  
Fax Number of Contact: 276.679.1528

**County to be served:** Wise

**Main Funding Agency:** Department of Housing and Community Development

**Goal/Strategy:** To increase quality of life for Wise County PSA customers by constructing 7,250 linear feet of 8-inch gravity sewer collection line with appurtenances to connect fifty-two (52) residential customers to the Guest River interceptor by gravity in the Lower Guest River service area.

### **Funding:**

Source	Amount	Percentage
Department of Housing and Community Development	\$ 858,488	60%
LENOWISCO Planning District Commission	\$ 418,991	40%
<b>Total</b>		

**Description:**

- Approximately 7,250 LF of new 8" gravity line
- 80 LF of 8" gravity line at road crossings
- 12 boring attempts
- 3,260 LF of 4" service line
- 400 LF of 4" service line at road crossings
- 52 service connections
- 40 standard manholes
- 60 LF of manhole extension
- 8 manhole vents
- 55 CY miscellaneous trench concrete
- 125 tons miscellaneous course aggregate

**Summary & Purpose:** The Wise County Public Service Authority (WCPSA) provides potable water and wastewater services throughout Wise County by their expanding system and interconnects with other locality's

systems. The Lower Guest River Sewer Line Extension Project is the next step in improving quality of life of the Lower Guest River community and a general upgrading of the PSA's system in this cost efficient project. The final design plans are nearing completion and awaiting Environmental Review to begin the bidding process.

**Project Area:**

The Lower Guest River service area is located in Wise County and is part of the Guest River sewer interceptor service area. Wise County is located in Southwest Virginia, bordered by Dickenson County to the east; Scott County to the south; Lee County to the west; and Harlan, Letcher, and Pike Counties, in Kentucky to the west and north, respectively. Guest River is headed due north out of the City of Norton and west of the Town of Wise.

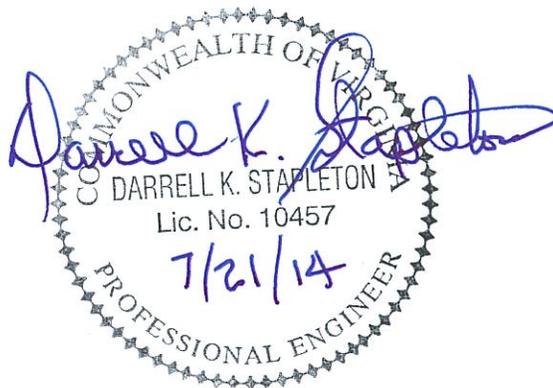
**Preliminary Engineering Report  
for the  
Lower Guest River Sewer Line Extension**

**T&L Project No.: 12746-01**

**July 2014**

**PRELIMINARY ENGINEERING REPORT**  
**FOR THE**  
**LOWER GUEST RIVER SEWER LINE EXTENSION**

**PREPARED FOR**  
**WISE COUNTY PUBLIC SERVICE AUTHORITY**



This document, including the ideas and designs incorporated herein, as an instrument of professional service, is the property of Thompson & Litton and is not to be used in whole or in part for any other project without the written authorization of Thompson & Litton.

**THOMPSON & LITTON**  
Wise, Virginia 24293

**COMMISSION NO. 12746-01**

**JULY 2014**

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## **PURPOSE AND SCOPE**

This Preliminary Engineering Report has been prepared by Thompson & Litton, Inc. (T&L) in support of the Wise County Public Service Authority (WCPSA), Virginia's application for funding from the Virginia Department of Housing and Community Development (DHCD) for the Lower Guest River service area. This report describes the project planning area for the sewer line extensions, establishes the need for the project, and presents the alternatives investigated by the WCPSA to provide the necessary wastewater collection system. The recommended project is described in detail, including construction and total probable project cost estimates.

The Lower Guest River service area is located in Wise County, Virginia and is a part of the Guest River sewer interceptor service area. Wise County is located in Southwest Virginia, bordered by Dickenson County to the east; Scott County to the south; Lee County to the west; and Harlan, Letcher, and Pike Counties, in Kentucky to the west and north, respectively.

The potential for environmental impacts was considered during the analysis and presented in the Environmental Report, which has been submitted separately. Key findings are included in the body of this report. Environmental impacts appear to be minimal and temporary in nature, and the report's findings recommended construction of the selected alternative for the proposed project.

## PROJECT PLANNING AREA

### Location

The Lower Guest River Sewer Extension area lies along Guest River Road (State Route 620), Wells-Boone Road, Wells-Adams Road and Eisenhower Road. This area lies within the Guest River sewer service area. Service to this extension is required to connect potential users to the Guest River interceptor, which was completed in 2012. The project's geographical location is presented on Exhibit I. The project is located at geographical coordinates 36.9622 (latitude) and -82.6203 (longitude). The elevation of the project ranges from 2100 feet to 2200 feet.

### Environmental Resources Present

An Environmental Report has been prepared by the LENOWISCO Planning District Commission in accordance with the USDA Rural Utility Services RUS Bulletin 1794A-602. Negative impacts are minimal and are associated with construction of the project. The report directs that appropriate erosion control measures be taken in accordance with local regulations to prevent entry of sediment into the Guest River.

### Growth Areas and Population Trends

Wise County's population in the 2010 Census was 41,252. Projected population of the County in the years 2020 and 2030 is 40,100 and 39,300, respectively. On average, 2.9 persons occupy each residence. This data from the Virginia Employment Commission is presented in Table I. The County's population is projected to decrease over the next twenty years.

**Table I: Wise County population through 2030**

<b>Year</b>	<b>Population</b>
2010	41,252*
2020	40,100
2030	39,300

Source: *Virginia Employment Commission*

\* 2010 Census

## **EXISTING FACILITIES**

### Location Map

The project location is presented on Exhibit I. This extension lies within the existing Guest River service area and will serve to connect potential customers to the Guest River interceptor.

### History

This area of Wise County is served by the Coeburn-Norton-Wise (CNW) Wastewater Treatment Plant (WWTP) which was designed and installed in 1978. The CNW WWTP is currently owned and operated by the CNW Wastewater Authority. This Authority is composed of the City of Norton, the Towns of Wise and Coeburn, and Wise County. The WWTP utilizes the conventional activated sludge treatment process and dewateres its sludge with belt filter presses prior to disposal. The collection lines were installed much earlier when the original City of Norton WWTP was constructed. The WWTP is currently being expanded to 6.0 MGD, and Wise County owns 1.35 MGD of the 6.0 MGD facility capacity.

At present, the WCPSA has an agreement with the City of Norton to permit 100,000 gpd to flow through the City's interceptor to the CNW interceptor from the upper Guest River area. The Hamilton Town Sewer Line Extension project will generate 25,300 gpd. The entire Guest River/Stephens service area, which includes the flow from the Stephens Sewer Line Extension project and the Lower Guest River Sewer Line Extension project, has a potential to serve approximately 225 connections and will contribute approximately 60,000 gpd. This leaves considerable room for system expansion before the 100,000-gpd transmission limit by the City of Norton would be exceeded.

### Condition of Facilities

The collection system has an estimated inflow and infiltration (I/I) of 20-25 percent (20-25%). Since the CNW WWTP is currently being expanded and upgraded, and little to no

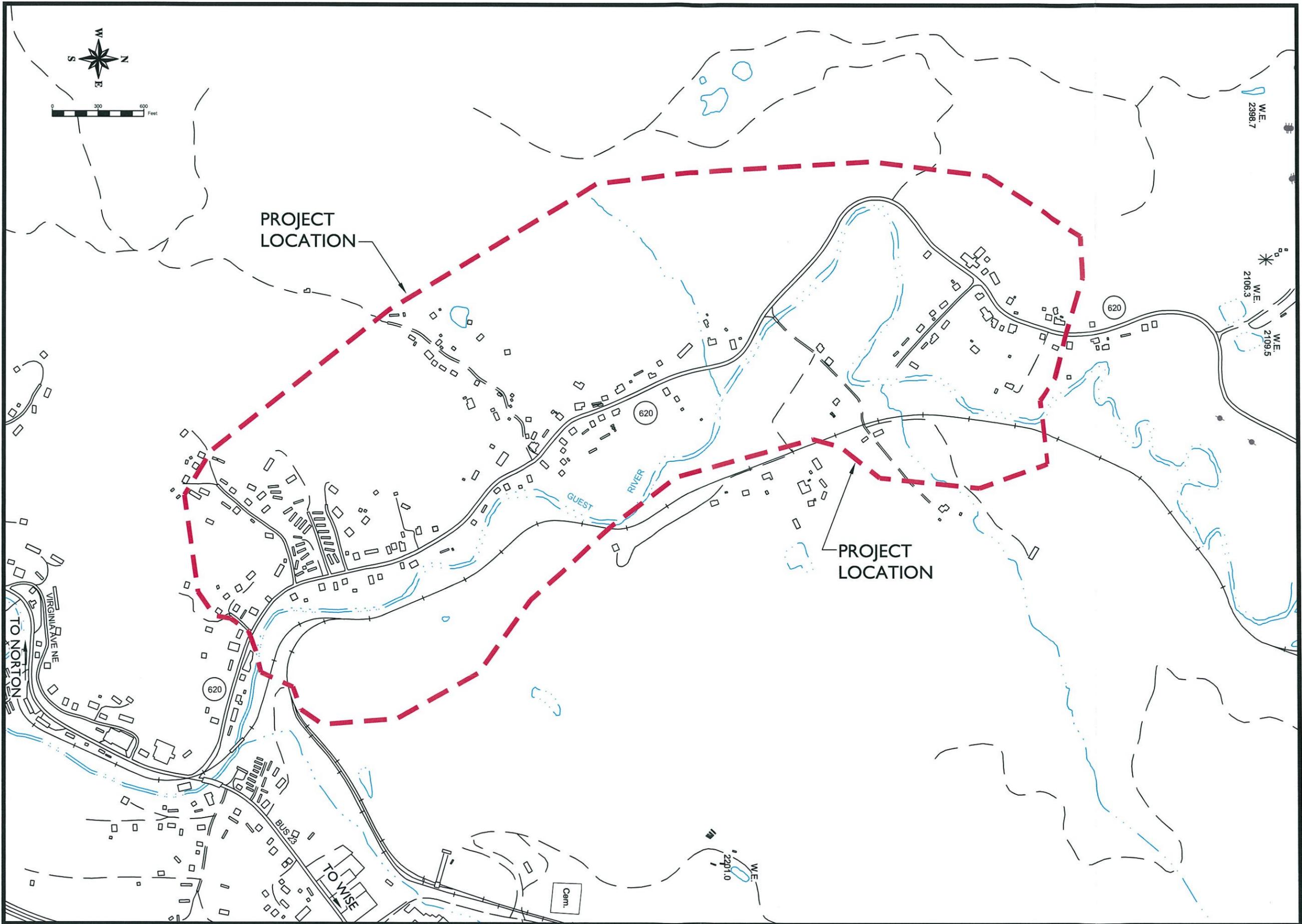
growth is being projected for the service area, the anticipated life for the facility is estimated at 40 years.

The CNW WWTP is regulated by the Virginia Department of Environmental Quality (DEQ). Effluent from the WWTP is discharged to the Guest River. The WWTP submits a Discharge Monitoring Report monthly to DEQ, and it is typically well within the discharge requirements. The WWTP is in compliance with applicable regulations. Typical flow to the WWTP is approximately 3.1 MGD.

**Table II: WCPSA Current Rate Schedule for Wastewater**

	<b>User Fees</b>	<b>Availability Fees</b>
Minimum (0-1,500 gallons)	\$18.00	TBD
Each additional 1,000 gallons	\$9.00	

For 5,000 gallons per month, the WCPSA wastewater bill is \$49.50.



THOMPSON & LITTON

103 East Main Street  
P.O. Box 1307  
Wise, Virginia 24293

**PRELIMINARY ENGINEERING REPORT  
FOR THE  
LOWER GUEST RIVER SEWER LINE EXTENSION**

**PROJECT LOCATION MAP**

Designed:  
Drawn:  
Checked:  
Date: JULY 2014

Project No.  
12746-01

Sheet No.  
**EXHIBIT**  
1

## **NEED FOR PROJECT**

### Health, Sanitation, and Security

There is no public provision of wastewater service in the Lower Guest River service area, which is currently served by on-site septic systems with field lines. Several of the existing systems are subject to poor performance due to their age, historical lack of maintenance, and the soil conditions. The service area is located in the Guest River watershed. Treatment of wastewater originating in the project area at a permitted WWTP would enhance the environment and support aquatic species in the Guest River as well as maintain property values.

### Systems Operation and Maintenance

No additional capacity in the WWTP is needed to provide service to the proposed sewer extension. The CNW WWTP is well staffed with experienced professionals in wastewater treatment and will provide treatment of the wastewater generated by the customers of the proposed sewer extension. The WCPSA will provide O&M for the Lower Guest River Sewer Line Extension project and will pay a proportionate share of the O&M cost to the City of Norton for the connecting interceptor to the CNW system.

### Growth

There are approximately 225 potential customers that could be served by the entire Guest River/Stephens Sewer system if it is expanded to serve all of them. When the Stephens Sewer Line Extension project is completed (67 new connections), the Lower Guest River Sewer Line Extension (52 new connections) is complete, and all of the connections adjacent to the interceptor are made, 141 connections will be on the Guest River/Stephens Sewer system. Through the Lower Guest River Sewer Line Extension project, approximately 52 new single-family residential dwellings can be connected to the system.

## Financial

It is essential that the remaining customers which can be connected to the Guest River interceptor be connected as quickly as possible. The WCPSA has started paying loan payments on the interceptor project, and many of the potential customers have not yet been connected. To ensure the financial health of the interceptor project, revenue must be collected from all the potential customers. It is imperative that these subareas be served as soon as possible from both a public health and financial standpoint.

## ALTERNATIVES CONSIDERED

Two (2) alternatives to address this project need have been considered.

Alternative No. 1: Construct the entire Lower Guest River project, consisting of 7,250 linear feet (L.F.) of 8-inch gravity sewer collection line with appurtenances to connect fifty-two (52) residential customers to the Guest River interceptor by gravity.

Alternative No. 2: No-Action Alternative.

Each alternative is considered in turn.

**Alternative No. 1: Construct the entire Lower Guest River project, consisting of 7,250 linear feet (L.F.) of 8-inch gravity sewer collection line with appurtenances to connect fifty-two (52) residential customers to the Guest River interceptor by gravity.**

### Description

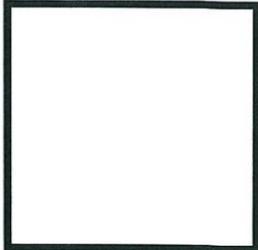
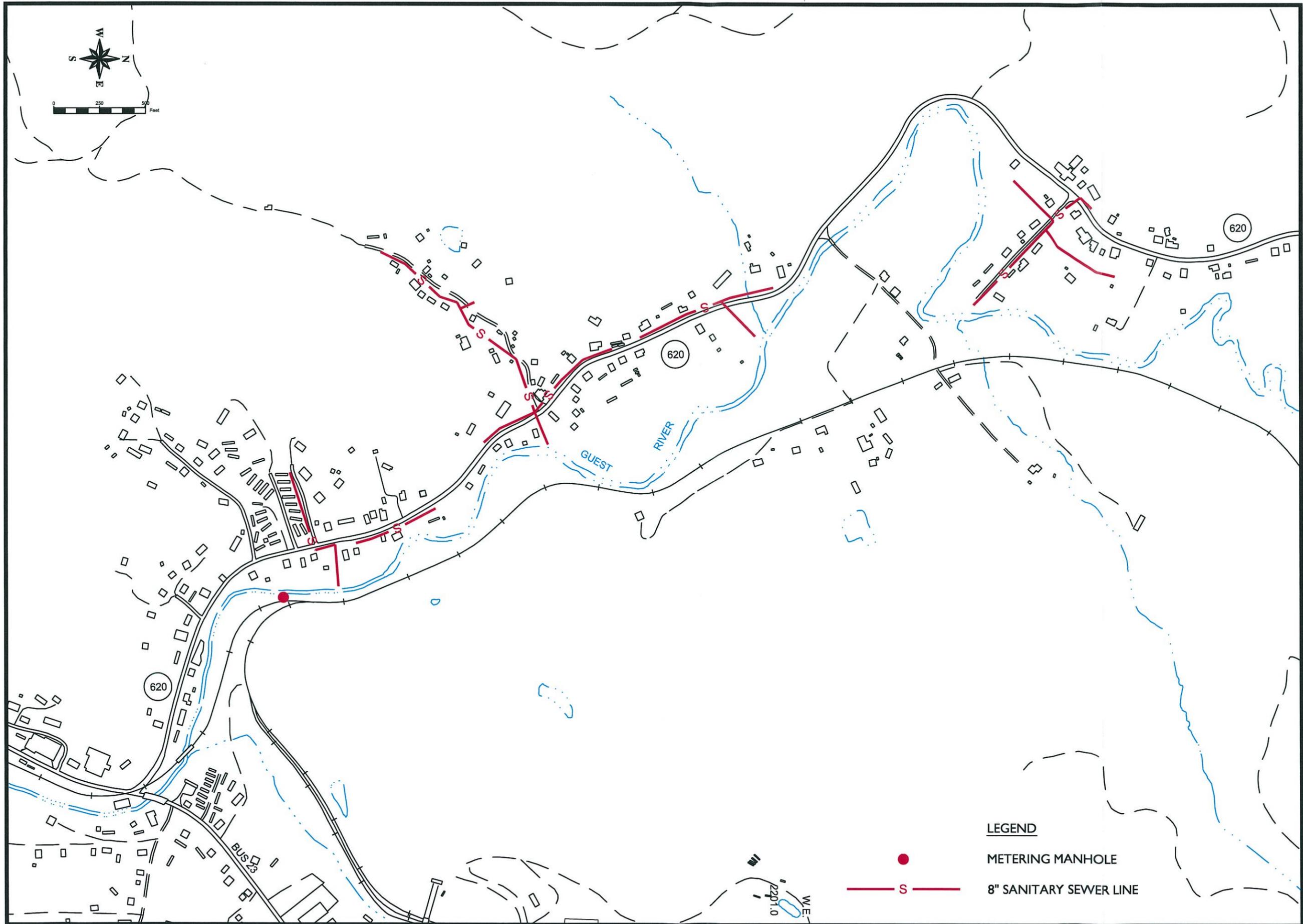
This project consists of 7,250 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch interceptor. Appurtenances including manholes, 4-inch service line, and road crossings are required to connect fifty-two (52) new users to the system.

### Design Criteria

The design parameters will be determined through compliance with the Virginia Sewage Collection and Treatment Regulations, found in 9 VAC-25-790.

### Facilities Map

A Facilities Map depicting current and proposed facilities is presented in Exhibit II.



THOMPSON & LITTON

103 East Main Street  
P.O. Box 1307  
Wise, Virginia 24293

**PRELIMINARY ENGINEERING REPORT  
FOR THE  
LOWER GUEST RIVER SEWER LINE EXTENSION  
FACILITIES MAP**

**Designed:**  
**Drawn:**  
**Checked:**  
**Date:** JULY 2014

**Project No.**  
12746-01

**Sheet No.**  
  
**EXHIBIT  
II**

**LEGEND**

-  METERING MANHOLE
-  8" SANITARY SEWER LINE

### Environmental Impacts

Negative impacts are minimal and are associated with construction of the project. The Environmental Report directs that appropriate erosion control measures be taken in accordance with local regulations to prevent entry of sediment into the Guest River.

### Land Requirements

No property acquisition is required to construct this project. All new lines will be located either on right-of-way or on easements through private property, which must be acquired by the WCPSA.

### Construction Problems

Due to the terrain of the project, many of the proposed gravity sewer lines cannot follow roadways and must be laid on personal property. It is also likely that shallow rock may be encountered in proximity to residences. Restoration of private property will be of concern during construction. High water table might also be encountered as the line nears Guest River. The contractor must make allowances to keep the trenches dry during construction.

### Permits

A VDOT permit will be required to construct the line on right-of-way and also for road crossings. An erosion and sediment control permit must also be prepared for the project.

### Cost Estimate for Alternative No. I

The Preliminary Statement of Probable Project Cost for this alternative is \$1,047,479 and is presented in Table III. This estimate includes both Construction Cost of \$720,675 and Related Cost of \$326,804.

Annual operation and maintenance (O&M) cost is based on \$0.10 per foot of line and is calculated to be \$725 per year.

### Advantages/Disadvantages of Alternative No. 1

This Alternative would provide needed wastewater service with little operating costs, since the system is served by gravity sewer lines. Any negative impacts will be temporary during construction, and will be negligible after the construction site is stabilized.

**TABLE III  
PRELIMINARY STATEMENT OF PROBABLE PROJECT COST  
FOR THE  
LOWER GUEST RIVER SEWER LINE EXTENSION  
JULY 2014**

**CONSTRUCTION COST:**

7,250 L.F. 8" Gravity Sewer Line @ \$55/L.F.	\$398,750
80 L.F. 8" Gravity Sewer Line (Road Crossing) @ \$250/L.F.	\$20,000
12 EA. Boring Attempts @ \$1,000/EA.	\$12,000
3,260 L.F. 4" Service Line @ \$20/L.F.	\$65,200
400 L.F. 4" Service Line Road Crossing @ \$100/L.F.	\$40,000
52 Service Connections including piping, wyes, MH connections, cleanouts and plugs @ \$500/EA.	\$26,000
40 EA. Standard Manholes @ \$2,950/EA.	\$118,000
60 L.F. Manhole extension @ \$310/L.F.	\$18,600
8 EA. Extra Charge for Manhole vents @ \$500/EA.	\$4,000
55 C.Y. Miscellaneous Trench Concete @ \$250/C.Y.	\$13,750
125 Tons Miscellaneous Course Aggregate @ \$35/TON	\$4,375

**CONSTRUCTION COST SUBTOTAL**

**\$720,675**

**RELATED COST:**

Administration	\$49,500
Preliminary Engineering	\$4,150
Basic Engineering 12.80%	\$92,246
Additional Engineering	\$9,000
Permits	\$9,000
Resident Project Representation	\$99,840
Construction Contingency (10%)	\$72,068

**TOTAL RELATED COST**

**\$326,804**

**TOTAL PROBABLE PROJECT COST ESTIMATE**

**\$1,047,479**

Cost per connection =

\$20,143.83

## **Alternative No. II: No-Action Alternative**

The “No-Action” Alternative is included in order to note consideration of all potential alternatives. However, because many of the existing on-site septic systems have failed, the No-Action Alternative does not resolve the issues of wastewater treatment and environmental enhancement of the headwaters of the Guest River. Alternative II does not address the financial issue, as the additional customers will not be added, and the interceptor cost will not be covered without revenue from all the connections. Therefore, this Alternative is not viable and is not developed further.

## **SELECTION OF AN ALTERNATIVE**

Alternative No. 1 is the only viable alternative. The “No-Action” Alternative will not provide service to the connections in the Eisenhower Road service area and will not improve the environment in the service area. Therefore, Alternative 1 is the selected alternative.

However, funding is not available to construct the entire project at this time. Therefore, a phased approach must be considered. Project phasing is discussed in the following section.

## PROJECT PHASING

The Lower Guest River service area consists of three (3) adjacent subareas which must be connected to the Guest River interceptor. Each of these subareas lie on or near Guest River Road. Due to the lack of funding available to construct the entire project at one time, the WCPSA has made the decision to divide the project into phases. These phases are broken down as follows:

### **Alternative No. 1, Phase I: Construct the Wells-Boone/Guest River Road Sewer Line Extension**

#### Description

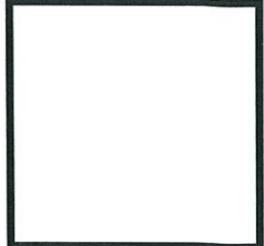
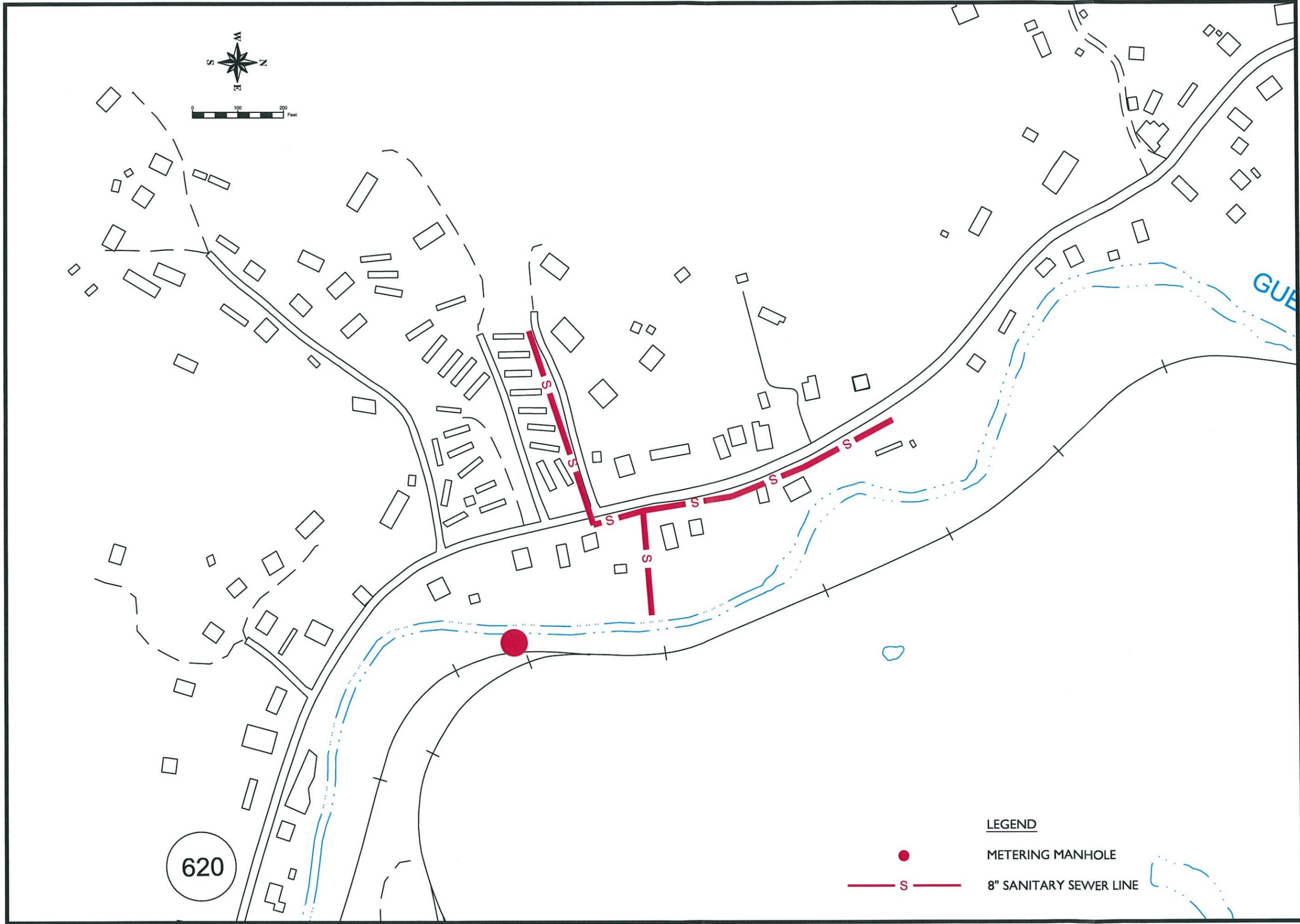
This project phase consists of 1,200 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch interceptor. Appurtenances including manholes, 4-inch service line, and road crossings required to connect eleven (11) new users to the system.

#### Design Criteria

The design parameters will be determined through compliance with the Virginia Sewage Collection and Treatment Regulations, found in 9 VAC-25-790.

#### Facilities Map

A Facilities Map - Phase I depicting current and proposed facilities is presented in Exhibit III.



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Wise, Virginia 24293

**PRELIMINARY ENGINEERING REPORT  
FOR THE  
LOWER GUEST RIVER SEWER LINE EXTENSION  
FACILITIES MAP - PHASE I  
(WELLS-BOONE / GUEST RIVER ROAD)**

**Designed:**  
**Drawn:**  
**Checked:**  
**Date:** JULY 2014

**Project No.**  
12746-01

**Sheet No.**  
  
**EXHIBIT  
III**

LEGEND

-  METERING MANHOLE
-  8" SANITARY SEWER LINE

### Environmental Impacts

Negative impacts are minimal and are associated with construction of the project. The Environmental Report directs that appropriate erosion control measures be taken in accordance with local regulations to prevent entry of sediment into the Guest River.

### Land Requirements

No property acquisition is required to construct this project. All new lines will be located either on right-of-way or on easements through private property, which must be acquired by the WCPSA.

### Construction Problems

Due to the terrain of the project, many of the proposed gravity sewer lines cannot follow roadways and must be laid on personal property. It is also likely that shallow rock may be encountered in proximity to residences. Restoration of private property will be of concern during construction. High water table might also be encountered as the line nears Guest River. The contractor must make allowances to keep the trenches dry during construction.

### Permits

A VDOT permit will be required to construct the line on right-of-way and also for road crossings. An erosion and sediment control permit must also be prepared for the project.

### Cost Estimate for Alternative No. 1, Phase I

The Preliminary Statement of Probable Project Cost for the Wells-Boone/Guest River Road Sewer Line Extension is \$247,652 and is presented in Table IV. This estimate includes both Construction Cost of \$151,675 and Related Cost of \$95,977.

Annual operation and maintenance (O&M) cost is based on \$0.10 per foot of line and is calculated to be \$120 per year.

### Advantages/Disadvantages of Alternative No. 1, Phase I

This Alternative would provide needed wastewater service with little operating costs, since the system is served by gravity sewer lines. Any negative impacts will be temporary during construction, and will be negligible after the construction site is stabilized.

**TABLE IV  
PRELIMINARY STATEMENT OF PROBABLE PROJECT COST  
FOR PHASE I:  
WELLS-BOONE/GUEST RIVER ROAD SEWER LINE EXTENSION  
JULY 2014**

**CONSTRUCTION COST:**

1,200 L.F. 8" Gravity Sewer Line @ \$55/L.F.	\$66,000
40 L.F. 8" Gravity Sewer Line (Road Crossing) @ \$250/L.F.	\$10,000
6 EA. Boring Attempts @ \$1,000/EA.	\$6,000
1,000 L.F. 4" Service Line @ \$20/L.F.	\$20,000
11 Service Connections including piping, wyes, MH connections, cleanouts and plugs @ \$500/EA.	\$5,500
10 EA. Standard Manholes @ \$2,950/EA.	\$29,500
30 L.F. Manhole extension @ \$310/L.F.	\$9,300
4 EA. Extra Charge for Manhole Vents @ \$500/EA.	\$2,000
10 C.Y. Miscellaneous Trench Concete @ \$250/C.Y.	\$2,500
25 Tons Miscellaneous Course Aggregate @ \$35/TON	\$875

**CONSTRUCTION COST SUBTOTAL**

**\$151,675**

**RELATED COST:**

Administration		\$16,500
Preliminary Engineering		\$4,150
Basic Engineering	14.90%	\$22,600
Additional Engineering		\$3,000
Permits	\$3,000	
Resident Project Representation		\$34,560
Construction Contingency (10%)		\$15,168

**TOTAL RELATED COST**

**\$95,977**

**TOTAL PROBABLE PROJECT COST ESTIMATE**

**\$247,652**

Cost per connection = \$22,513.83

## **Alternative No. 1, Phase II: Construct the Eisenhower/Guest River Road Sewer Line Extension**

### Description

This project phase consists of 2,450 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch interceptor. Appurtenances including manholes, 4-inch service line, and road crossings required to connect twelve (12) new users to the system.

### Design Criteria

The design parameters will be determined through compliance with the Virginia Sewage Collection and Treatment Regulations, found in 9 VAC-25-790.

### Facilities Map

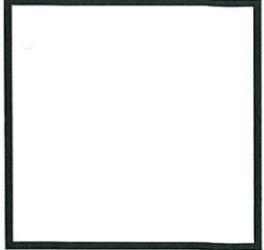
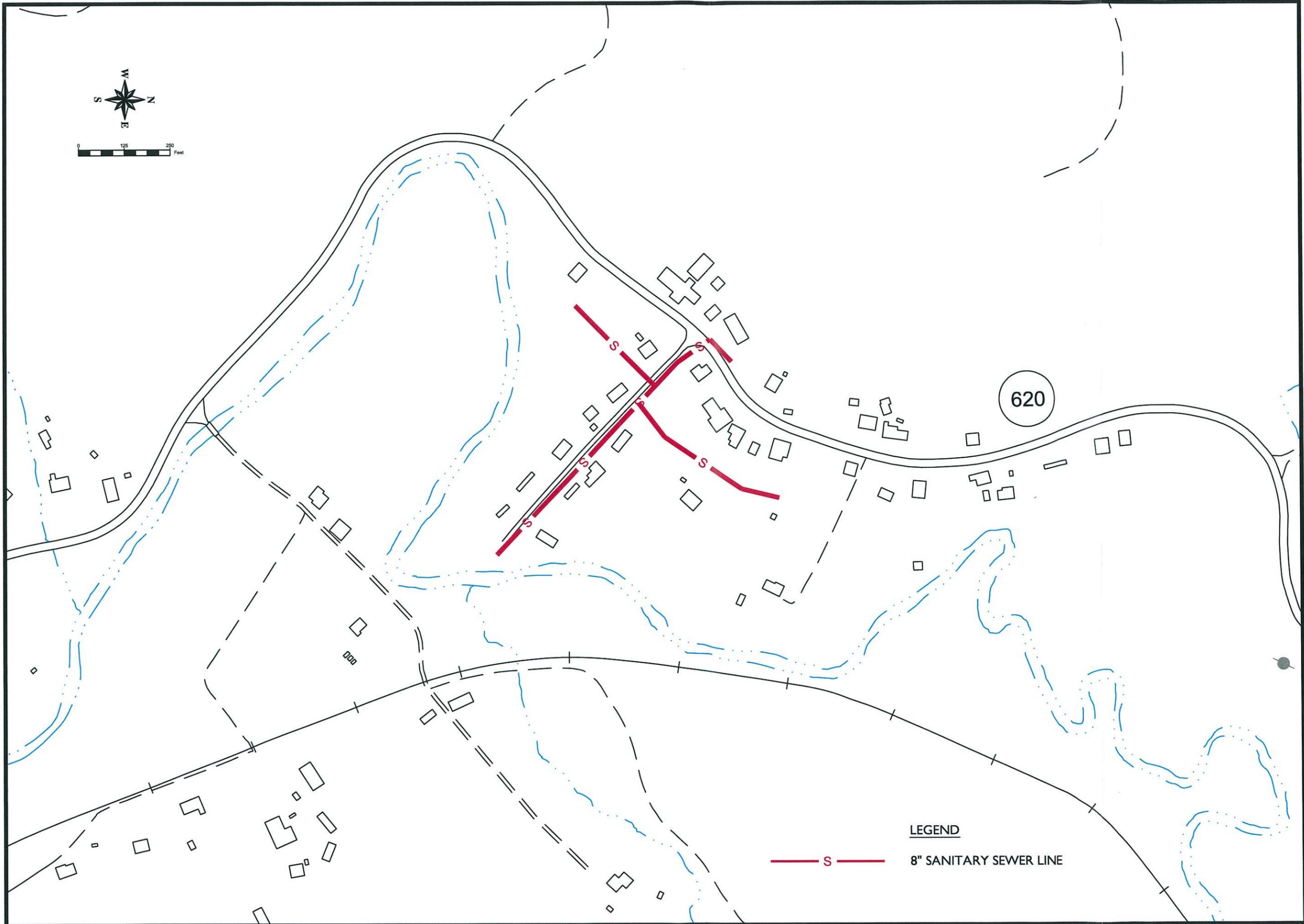
A Facilities Map - Phase II depicting current and proposed facilities is presented in Exhibit IV.

### Environmental Impacts

Negative impacts are minimal and are associated with construction of the project. The Environmental Report directs that appropriate erosion control measures be taken in accordance with local regulations to prevent entry of sediment into the Guest River.

### Land Requirements

No property acquisition is required to construct this project. All new lines will be located either on right-of-way or on easements through private property, which must be acquired by the WCPSA.



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**PRELIMINARY ENGINEERING REPORT  
FOR THE  
LOWER GUEST RIVER SEWER LINE EXTENSION  
FACILITIES MAP - PHASE II  
(EISENHOWER / GUEST RIVER ROAD)**

**Designed:**  
**Drawn:**  
**Checked:**  
**Date:** JULY 2014

**Project No.**  
12746-01

**Sheet No.**  
**EXHIBIT  
IV**

**LEGEND**

— S — 8" SANITARY SEWER LINE

### Construction Problems

Due to the terrain of the project, many of the proposed gravity sewer lines cannot follow roadways and must be laid on personal property. It is also likely that shallow rock may be encountered in proximity to residences. Restoration of private property will be of concern during construction. High water table might also be encountered as the line nears Guest River. The contractor must make allowances to keep the trenches dry during construction.

### Permits

A VDOT permit will be required to construct the line on right-of-way and also for road crossings. An erosion and sediment control permit must also be prepared for the project.

### Cost Estimate for Alternative No. I, Phase II

The preliminary statement of probable project cost for the Eisenhower/Guest River Road Sewer Line Extension is \$352,570 and is presented in Table V. This estimate includes both construction cost of \$251,700 and related cost of \$100,870.

Annual operation and maintenance (O&M) cost is based on \$0.10 per foot of line and is calculated to be \$245 per year.

### Advantages/Disadvantages of Alternative No. I, Phase II

This Alternative would provide needed wastewater service with little operating costs, since the system is served by gravity sewer lines. Any negative impacts will be temporary during construction, and will be negligible after the construction site is stabilized.

**TABLE V  
PRELIMINARY STATEMENT OF PROBABLE PROJECT COST  
FOR PHASE II:  
EISENHOWER/GUEST RIVER ROAD SEWER LINE EXTENSION  
JULY 2014**

**CONSTRUCTION COST:**

2,450 L.F. 8" Gravity Sewer Line @ \$55/L.F.	\$134,750
40 L.F. 8" Gravity Sewer Line (Road Crossing) @ \$250/L.F.	\$10,000
6 EA. Boring Attempts @ \$1,000/EA.	\$6,000
450 L.F. 4" Service Line @ \$20/L.F.	\$9,000
400 L.F. 4" Service Line Road Crossing @ \$100/L.F.	\$40,000
12 Service Connections including piping, wyes, MH connections, cleanouts and plugs @ \$500/EA.	\$6,000
10 EA. Standard Manholes @ \$2,950/EA.	\$29,500
30 L.F. Manhole extension @ \$310/L.F.	\$9,300
4 EA. Extra Charge for Manhole vents @ \$500/EA.	\$2,000
15 C.Y. Miscellaneous Trench Concete @ \$250/C.Y.	\$3,750
40 Tons Miscellaneous Course Aggregate @ \$35/TON	\$1,400

**CONSTRUCTION COST SUBTOTAL**

**\$251,700**

**RELATED COST:**

Administration		\$16,500
Basic Engineering	14.70%	\$37,000
Additional Engineering		\$3,000
Permits	\$3,000	
Resident Project Representation		\$19,200
Construction Contingency (5%)		\$25,170

**TOTAL RELATED COST**

**\$100,870**

**TOTAL PROBABLE PROJECT COST ESTIMATE**

**\$352,570**

Cost per connection =

\$29,380.83

## **Alternative No. I, Phase III: Construct the Wells-Adams/Guest River Road Sewer Line Extension**

### Description

This project consists of 3,600 linear feet (L.F.) of 8-inch gravity collector sewer line to connect to the existing Guest River 24-inch interceptor. Appurtenances including manholes, 4-inch service line, and road crossings required to connect twenty-nine (29) new users to the system.

### Design Criteria

The design parameters will be determined through compliance with the Virginia Sewage Collection and Treatment Regulations, found in 9 VAC-25-790.

### Facilities Map

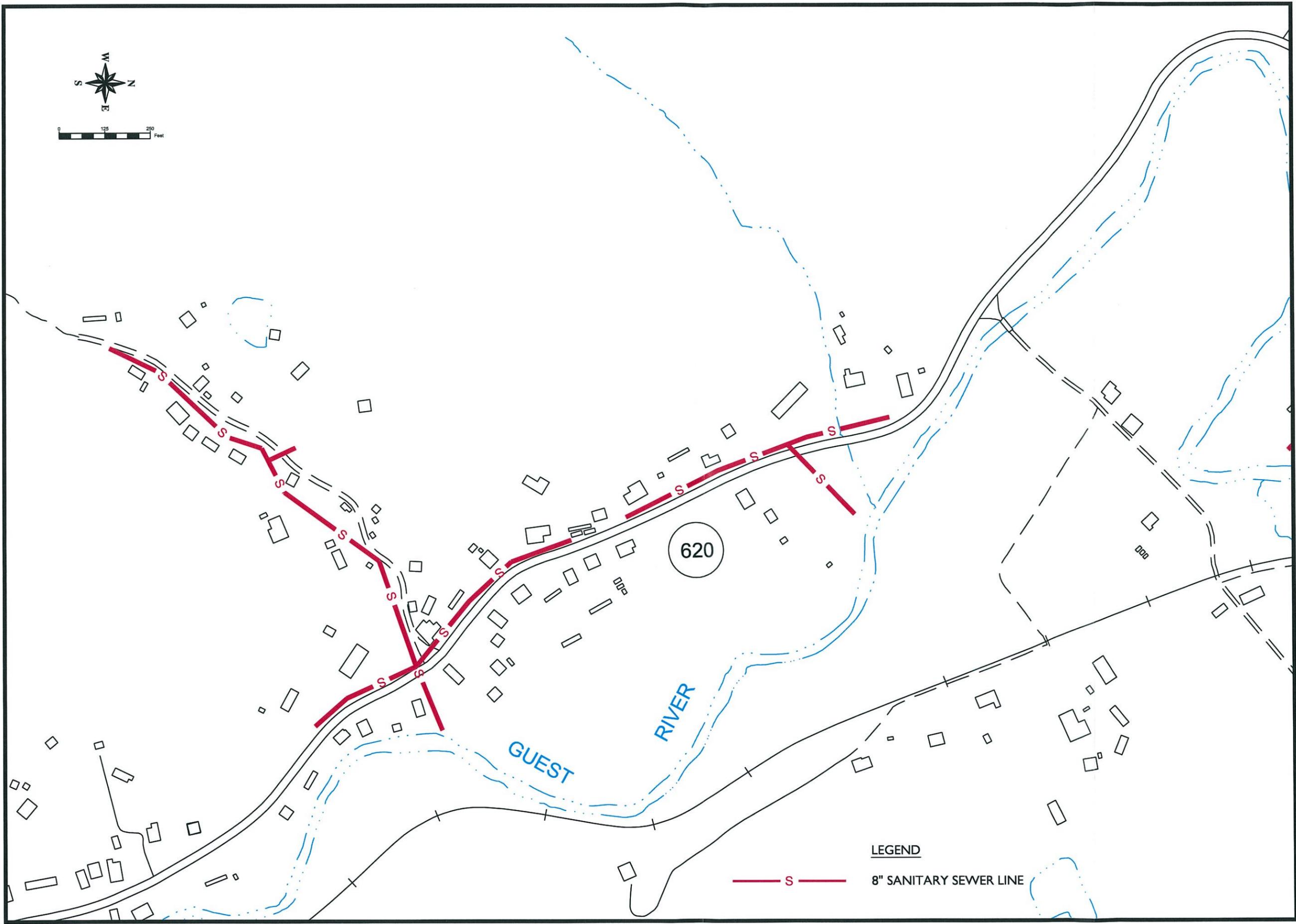
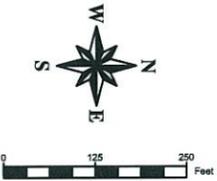
A Facilities Map - Phase III depicting current and proposed facilities is presented in Exhibit V.

### Environmental Impacts

Negative impacts are minimal and are associated with construction of the project. The Environmental Report directs that appropriate erosion control measures be taken in accordance with local regulations to prevent entry of sediment into the Guest River.

### Land Requirements

No property acquisition is required to construct this project. All new lines will be located either on right-of-way or on easements through private property, which must be acquired by the WCPSA.



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**PRELIMINARY ENGINEERING REPORT  
FOR THE  
LOWER GUEST RIVER SEWER LINE EXTENSION  
FACILITIES MAP - PHASE III  
(WELLS - ADAMS / GUEST RIVER ROAD)**

**Designed:**  
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**Checked:**  
**Date:** JULY 2014

**Project No.**  
12746-01

**Sheet No.**  
**EXHIBIT**  
V

### Construction Problems

Due to the terrain of the project, many of the proposed gravity sewer lines cannot follow roadways and must be laid on personal property. It is also likely that shallow rock may be encountered in proximity to residences. Restoration of private property will be of concern during construction. High water table might also be encountered as the line nears Guest River. The contractor must make allowances to keep the trenches dry during construction.

### Permits

A VDOT permit will be required to construct the line on right-of-way and also for road crossings. An erosion and sediment control permit must also be prepared for the project.

### Cost Estimate for Alternative No. I, Phase III

The Preliminary Statement of Probable Project Cost for the Wells-Adams/Guest River Road Sewer Line Extension is \$487,013 and is presented in Table VI. This estimate includes both Construction Cost of \$338,500 and Related Cost of \$148,513.

Annual operation and maintenance (O&M) cost is based on \$0.10 per foot of line and is calculated to be \$360 per year.

### Advantages/Disadvantages of Alternative No. I, Phase III

This Alternative would provide needed wastewater service with little operating costs, since the system is served by gravity sewer lines. Any negative impacts will be temporary during construction, and will be negligible after the construction site is stabilized.

**TABLE VI**  
**PRELIMINARY STATEMENT OF PROBABLE PROJECT COST**  
**FOR PHASE III:**  
**WELLS-ADAMS/GUEST RIVER SEWER LINE EXTENSION**  
**JULY 2014**

**CONSTRUCTION COST:**

3,600 L.F. 8" Gravity Sewer Line @ \$55/L.F.	\$198,000
1,810 L.F. 4" Service Line @ \$30/L.F.	\$54,300
100 L.F. 4" Service Line Road Crossing @ \$100/L.F.	\$10,000
29 Service Connections including piping, wyes, MH connections, cleanouts and plugs @ \$500/EA.	\$14,500
20 EA. Standard Manholes @ \$2,500/EA.	\$50,000
30 Miscellaneous Trench Concete @ \$350/C.Y.	\$10,500
60 Miscellaneous Course Aggregate @ \$20/TON	\$1,200

<b>CONSTRUCTION COST SUBTOTAL</b>	<b><u>\$338,500</u></b>
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**RELATED COST:**

Administration	\$16,500
Basic Engineering @ 14.50%	\$49,083
Additional Engineering	\$3,000
Permits	\$3,000
Resident Project Representation	\$46,080
Construction Contingency (10%)	\$33,850

<b>TOTAL RELATED COST</b>	<b><u>\$148,513</u></b>
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<b>TOTAL PROBABLE PROJECT ESTIMATE</b>	<b><u>\$487,013</u></b>
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Cost per connection =	\$16,793.53
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## PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)

The recommended alternative is Alternative I; however, since funding is not available to construct the entire project at this time, it is recommended that the WCPSA construct Alternative No. 1, Phase I of the project, the Wells-Boone/Guest River Road Sewer Line Extension initially. This project consists of 1,200 L.F. of 8-inch gravity collector sewer with appurtenances connected to the 24-inch interceptor, which is currently in service along Guest River.

### Project Design

#### (1) Collection System Layout

The collection system will consist of 1,200 L.F. of 8-inch diameter gravity lines and related appurtenances. The gravity lines will include one (1) road crossing.

#### (2) Treatment

Treatment will be provided at the CNW WWTP, located in the Riverview section of the Town of Coeburn. This facility, which is currently being expanded to 6.0 MGD capacity, uses an oxidation ditch system. The WCPSA owns 1.35 MGD of the total 6.0 MGD capacity. The treated effluent is discharged to the Guest River. Stabilized solids are dewatered using a belt filter press before disposal.

### Total Project Cost Estimate

Construction	\$ 151,675
Administration	\$ 16,500
Engineering	
Basic	\$ 22,600
Inspection	\$ 34,560
Permits	\$ 3,000
Contingencies	<u>\$ 15,168</u>
 Total Project Costs	 <b>\$ 247,652</b>

The projected annual O&M cost for this sewer line extension is \$120.

## **CONCLUSIONS AND RECOMMENDATIONS**

### Recommended Project

It is recommended that Alternative No. 1, Phase I be constructed for the Wells-Boone/Guest River Road Sewer Line Extension to the Guest River sewer interceptor. This will allow another eleven (11) households to be served with sanitary sewer. Approximately 1,200 linear feet of 8-inch gravity collector sewer line with appurtenances will be required at a total project cost of \$247,652.

### Recommendations for Coordination

Coordination with VDOT officials is recommended during design in layout of the project. The contractor should also coordinate with the affected property owners so that access will be maintained to dwellings located near the proposed construction work.

### Recommendations for Plan of Action to Expedite Project

Public participation in the early phases as well as coordination with VDOT will enable the project to proceed on schedule.

## Re-evaluation of an Environmental Assessment

*(The conclusions of the original Environmental Assessment must be re-evaluated when significant changes are made to the original project and for each contract of a multi-year project. If significant changes have not occurred, the grantee must still complete this form annually, add it to the ERR to document review and upload it into "Reports and Communication" in CAMS.)*

### Re-Evaluation of an Environmental Assessment

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Project Name: WELLS-ADAMS SEWER EXTENSION PROJECT

HUD Program Name: CDBG State Program

HUD Project Number: 1821 Local Project Number: 1821

Date of Original Environmental Assessment: May 2015

1. Does the recipient propose substantial changes made in the **nature, magnitude or extent** of the project, including **new activities not anticipated** in the original scope of the project?  Yes  No
  
2. Are there **new circumstances** and **environmental conditions** that may affect the project or have a bearing on its impact, such as **concealed or unexpected conditions** discovered during the implementation of the project or activity?  Yes  No
  
3. Does the recipient propose the selection of an alternative **not in the original finding**?  Yes  No

*If the answer is "yes" to any of these three questions, the responsible entity must re-evaluate the original environmental assessment.*

**CONCLUSION:**

[ ] *Based on the re-evaluation above, the original determination is no longer valid. A new environmental assessment must be initiated.*

[x] *Based on the re-evaluation above, the original "Finding of No Significant Impact" remains valid. No further assessment is required.*

Name of Certifying Officer: *Markus W. Hagen*

Date Signed: *27 Mar 2019*