



MVP Southgate Project

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MVP Southgate Project

Horizontal Directional Drill Contingency Plan

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APPENDICES

APPENDIX A – MATERIAL SAFETY DATA SHEETS

ACRONYMS

HDD	Horizontal Directional Drilling
Project or Southgate Project	MVP Southgate Project
IR	inadvertent return
CI	Chief Inspector
EI	Environmental Inspector
PC	Permit Coordinator
CM	Construction Project Manager

1.0 INTRODUCTION

Horizontal Directional Drilling (“HDD”) is a trenchless excavation method that is accomplished in three phases. The first phase consists of drilling a small diameter pilot hole along a designed directional path. The second phase consists of enlarging the pilot hole to a diameter suitable for installation of the pipe. The third phase consists of pulling the pipe into the enlarged hole. HDD is accomplished using a specialized horizontal drilling rig with ancillary tools and equipment. A properly executed HDD crossing will allow for the pipeline to be installed in a minimally invasive manner.

The HDD method is proposed for the MVP Southgate Project (“Project” or “Southgate Project”) crossings in North Carolina of the Dan River in Rockingham County and Stony Creek Reservoir in Alamance County. The Project is still evaluating the route and additional HDD’s may be proposed based on feedback from field surveys and stakeholders.

The inadvertent return (“IR”) of drilling lubricant is a potential concern when HDD methods are utilized. The HDD procedure for these crossings will utilize bentonite for drilling lubricant. In general, IRs can occur because of existing rock fractures, low density soils, or unconsolidated geology. There is a potential for inadvertent returns to directly impact surface and ground waters via existing or enhanced fracture zones or if there is a release upland which flows over ground into wetlands or streams.

The purpose of this HDD Contingency Plan is to:

- Minimize the potential for an IR associated with horizontal directional drilling activities.
- Provide for the timely detection of an IR.
- Protect areas that are considered environmentally sensitive (streams, wetlands, other biological resources, cultural resources).
- Provide an organized, timely, and “minimum-impact” response in the event of an IR.
- Provide that all appropriate notifications are made to the North Carolina Department of Environmental Quality and other appropriate regulatory agencies, and that documentation is completed.
- Provide an alternative crossing method if the HDD is deemed unsuccessful.

Table 3.1-1 Proposed HDD Locations

Crossing Name	Pipeline Diameter (inches)	Approximate Entry Milepost	Approximate Exit Milepost	Total Length (feet)	Subsurface Material
Project Component Name					
Dan River	24	30.37	29.9	2,523	Fine-grained silty sand/ Sandstone/Limestone
Stony Creek Reservoir	16	63.75	63.44	1,619	Clay/Sandstone/Schist/Quartzite

2.0 PERSONNEL AND RESPONSIBILITIES

The actions in this HDD Plan are to be implemented by the following personnel:

Construction Project Manager – A Construction Project Manager (CM) has authority over all aspects of the field work during construction. The Chief Inspector reports directly to the CM and the CM has final approval over all field decisions for the project.

Chief Inspector – The Project will designate a Chief Inspector (“CI”) for the Project. The CI has overarching authority over all inspection activities occurring throughout the Project and works directly with the contractor.

Environmental Inspector – The Project will designate a minimum of one Environmental Inspector (“EI”) to monitor HDD activities. The EI(s) will monitor the HDD alignment for IRs and other signs of environmental impact (such as sinkhole development or subsidence over the alignment). The EI is in the same peer group with all other inspectors and reports directly to the CI. The EI has authority to stop any activities which are out of compliance with the FERC certificate (if applicable), other applicable permits, or landowner requirements. Additionally, the EI can order corrective action.

HDD Superintendent – The HDD contractor’s senior representative on-site is the HDD Superintendent. It is the HDD Superintendent’s responsibility to implement this HDD Plan on the contractor’s behalf. The HDD Superintendent must be familiar with all aspects of the drilling activities, the contents of this HDD Plan and the conditions of approval under which the activity is permitted. The HDD Superintendent will maintain a copy of this HDD Plan on all drill sites and distribute, as appropriate, to construction personnel. The HDD Superintendent ensures that workers are properly trained and familiar with the necessary response procedures to implement should there be an inadvertent release.

HDD Operator – The HDD operator is employed by the HDD contractor to operate the drilling rig, driller and fluid pumps. The HDD Operator is responsible for monitoring circulation through entry and exit locations as well as annular pressures during the drilling of the pilot-hole. Should circulation loss or higher than expected annular pressures occur, the HDD Operator must communicate the relevant details of this event to the HDD Superintendent and HDD contractor field crews as well as the on-site Project inspection staff. The HDD Operator is responsible for stopping or changing the drilling program in the event of observed or anticipated inadvertent returns.

HDD Contractor Personnel – During HDD installation, field crews and the Project’s field representatives will be responsible to monitor the HDD alignment. Field crews will coordinate with the EI and are responsible for timely notifications and responses to observed releases in accordance with this HDD Plan. The EI ultimately must sign off on corrective action plans mitigating releases.

Permit Coordinator – Company individual(s) that is accountable for all permit approvals and communication with respective agencies for the project.

3.0 PRE-CONSTRUCTION ACTIVITIES

Prior to implementation of the HDD, the Southgate Project and the contractor will identify the potential for inadvertent releases at the HDD location. The review will include a visual review of entry and exit points, and entire HDD drill path. The contractor will review the Project's HDD Geotechnical Investigations Report, which may include descriptions of subsurface conditions, laboratory testing, design recommendations, and construction recommendations.

In addition, private water supplies within 150 feet, if identified, will be protected by implementing the following measures:

- The drilling contractor will review the site conditions prior to the start of work.
- Construction limits will be clearly marked.
- Barriers will be erected between the bore site and nearby sensitive resources prior to drilling as per the Project-specific Erosion and Sediment Control Plan.
- On-site briefings will be conducted for the workers to identify and locate sensitive resources at the site.
- Provide that all field personnel understand their responsibility for timely reporting of IRs.
- Maintaining necessary response equipment on-site and in good working order.

The primary areas of concern for IRs occur at the entrance and exit points where the drilling equipment is generally at their shallowest depths. The likelihood of an IR decreases as the depth of the pipe increases.

To minimize the potential extent of impacts from an IR, HDD operations will be continuously monitored to look for observable IR conditions or lowered pressure readings on the drilling equipment. Early detection is essential to minimizing the area of potential impact.

No oil or gas wells were identified within 0.25 mile of the Project areas based on review of Virginia and North Carolina databases (VDMME, 2018 and NCGS, 2016).

3.1 Training

Prior to the start of construction, the Site Supervisor/Foreman will ensure that the crew members receive training on the following:

- The provisions of this Contingency Plan.
- Inspection procedures for IR prevention and containment equipment materials.
- Contractor/crew obligation to immediately stop the drilling operation upon first evidence of the occurrence of an IR and to immediately report any IRs to the Project's Environmental Inspector and Environmental Coordinator.
- Contractor/crew member responsibilities in the event of an IR.
- Operation of release prevention and control equipment and the location of release control materials, as necessary and appropriate.

- Protocols for communication with agency representatives who might be on site during the clean-up effort.
- Copies of this contingency plan and the contractor's site-specific contingency plan will always be maintained at the HDD entry and exit sites in a visible and accessible location.

3.2 Site Inspection

The Project will inspect each drill path prior to construction. Any site-specific condition(s) that impedes the ability to conduct the visual and pedestrian field inspection of any portion of a drill path will be identified, and a site-specific modification to the proposed inspection routine will be developed for that location. The Project will incorporate modifications into site-specific HDD crossing plans, as applicable, prior to construction and communicate these modifications to HDD contractors as part of the initial environmental training. If necessary, the Project will also file updated HDD crossing plans within its implementation plan or within a variance request should modifications be required outside of certificated workspace areas.

Appropriate monitoring and reporting protocols include:

- If circulation is lost or annular fluid pressure increase is observed that is not within the normal pressure variations the HDD Operator will immediately notify the HDD Superintendent and field crews of the event and approximate position of the tooling;
- Where it is possible to safely do so, field crew personnel will visually inspect the ground surface near cutting head location;
- If an inadvertent release is observed, the following chain of command and associated procedures should be implemented:
 - Field crew will immediately notify the HDD Operator;
 - The HDD Operator will stop pumping drilling fluid and notify the HDD Superintendent, EI and CI;
 - The CI/EI notifies the CM and PC and they formulate a response;
 - The PC will notify the appropriate regulatory authorities (see Section 3.4) as necessary relaying relevant details of the event, the proposed response and required documentation within 24 hours;
 - The PC will immediately notify the applicable state agency, VADEQ or NCDEQ, (see Section 3.4) of any inadvertent drilling fluid returns within wetlands, waterbodies, or regulated wetland adjacent areas, and;
- The PC will prepare a report summarizing the incident, the response and outcome.

3.3 Landowner Notification Procedures

The Project will notify landowners (via mail, phone or direct contact) where HDD activities will occur a minimum of 48 hours prior to the commencement of drilling. In addition, the Project will request written

access permission for limited pedestrian surveys outside of the approved workspace areas to facilitate monitoring of the HDD activities and identification of and response to potential IRs. Copies of these permissions will be included within the final HDD Contingency Plan.

3.4 Agency Notification Procedures

The PC will notify the appropriate regulatory authorities of the event as soon as possible and within 24 hours of identification of the release, to coordinate site-specific response procedures.

EQM Midstream Partners, LP Environmental Team:

Mr. Cory Chalmers
Permit Coordinator 304-848-0061 (office)
304-627-8173 (cell)

Ms. Megan Stahl
Environmental Permitting - Supervisor 412-553-7783 (office)
412-737-2587 (cell)

Ms. Hanna McCoy
Director - Environmental Permitting 724-873-3476 (office)
412-216-9316 (cell)

Include the following information:

- Time the spill was first identified
- Description of where the spill occurred – Project MP/Station
- Latitude and Longitude of spill
- Size of spill and control measures in place
- Name of affected water resource (if known/applicable)
- Photographs of spill area and corrective measures – when available. (Do not wait to notify the Project until pictures are available. Photo documentation should begin immediately upon detection and continued throughout the duration of the cleanup).

Regulatory authorities that will be contacted in the event of a release include the following:

1. FERC (all releases)

First Call: Amanda Mardiney – 202-502-8081

Alternate if no response from first call: FERC Enforcement Hotline - 1-888-889-8030

2. Virginia Department of Environmental Quality (releases in Virginia)

First Call: Mr. Michael Johnson - 757-247-2255

Alternate if no response from first call: VADEQ Spill Hotline - 1-800-468-8892

3. North Carolina Department of Environmental Quality (releases in North Carolina)

First Call: Ms. Susan Homewood – 336-776-9693

Alternate if no response from first call: NCDEQ Spill Hotline - 1-800-858-0368

4.0 DOCUMENTATION

A copy of this HDD Contingency Plan will be provided within the environmental compliance binders that are developed for construction, and copies will also be kept at each HDD location as well as at the contractor field offices. Additional documentation that will be maintained by the Project for each HDD location and includes, but is not limited to the following:

- Records of employee training detailing when training was conducted, material covered and employees in attendance. This training may coincide with the overall environmental training for the Project;
- Logs of HDD visual and pedestrian monitoring events – these may coincide with the daily environmental inspection reports;
- Drilling fluid composition – the contractor will maintain a log of drilling fluid physical properties such as mud weight, viscosity, sand content and pH during drilling activities; and
- Records of communication with landowners and applicable regulatory agencies that occur during HDD activities. These records may include inquiries and comments as well as Project response actions.

5.0 DRILLING FLUID MANAGEMENT

During the HDD process drilling fluid consisting of bentonite clay and water is maintained in drilling pits within the construction work area and used for continuous pumping into the boring. Drilling fluid is a slurry composed of water and bentonite clay, usually approximately 95 percent fresh water, intended to maintain the stability of the drilling hole, lubricate the drilling head and reduce soil friction. Bentonite clay (sodium montmorillonite) is a naturally occurring and extremely hydrophilic; it can absorb up to ten times its weight in water.

The HDD Contractor strives to maintain the integrity of the fluid by continuously sampling, testing and recording its properties throughout drilling operations. Analysis of samples allows for adjustments to be made to the slurry which helps maintain the most efficient drilling fluid flow adaptable to various geological conditions.

Bentonite is not hazardous nor is it toxic to aquatic ecosystems. The formulation of drilling fluids and its engineering properties are specified and tested to ensure their suitability for the given subsurface conditions encountered along the alignment and at each individual HDD location.

The slurry is designed to:

- Stabilize the hole against collapse;
- Lubricate, cool, and clean the cutters;

- Transport cuttings by suspension and flow to entry and exit points; and
- Reduce soil friction and required pull loads during pilot hole, reaming, and carrier pipe installation.

5.1 Drilling Fluid Additives

Small amounts of additives (typically less than one percent) may be mixed with the drilling fluids to improve drilling performance, or in response to excessive fluid loss. If any additives are necessary, the Project's goal is to utilize only water soluble and non-hazardous substances. The following is a narrative of the drilling fluids, materials, and additives that may be incorporated into a unique drill, depending upon subsurface and other conditions.

Anticipated or Typical Drilling Mud Ingredients

1. Water - This is the largest component. It may be used in its natural state or salts may be added to change filtrate reactivity with the formation.
2. Weighting Agents - These are added to control down-hole fluid pressure. Sodium barite is most common agent.
3. Clay - Most commonly, bentonite is used to provide viscosity and create a filter cake on the bore-hole wall to control fluid loss. Clay can be replaced by organic colloids such as biopolymers, cellulose polymers or starch.
4. Polymers - These are used to reduce filtration, stabilize clays, flocculate drilled solids and increase cuttings-carrying capacity. Cellulosic, polyacrylic and natural gum polymers are used to help maintain hole stability and minimize dispersion of the drill cuttings.
5. Thinners - These are added to the mud to reduce its resistance to flow. They are typically plant tannins, polyphosphates, lignilic materials, lignosulfonates.
6. Surfactants - These agents serve as emulsifiers, foamers and defoamers, wetting agents, detergents, lubricators and corrosion inhibitors.
7. Inorganic chemicals - A variety of inorganic chemicals are added to mud to carry out various functions. Typical chemicals: calcium hydroxide, sodium hydroxide and potassium hydroxide (caustic soda and caustic potash) are used to increase mud pH; sodium carbonate (soda ash) to remove hardness, sodium chloride for inhibition and sodium chloride to increase salinity and density.
8. Bridging Materials - Calcium carbonate or cellulose fibers are added to build-up a filler cake on the borehole wall and help reduce filtrate loss.
9. Lost Circulation Materials - These are used to block large openings in the borehole. These include walnut shells, mica and xanthum and cellulose.

There are several manufacturers that focus on products specifically for deep well drilling and/or shallow HDDs as they are similar processes. HDD contractors typically have preferred manufacturers that they use depending upon the specifics of each drill location. Technical data sheets for the more typical benign and environmentally friendly products that are approved for use by the Project are included in Appendix A. Manufacture substitutions, for like in kind products are acceptable, however, proprietary blends will be

avoided, and no materials will be allowed on site without current Material Safety Data Sheets being approved in advance. Specific Material Safety Data Sheets for products selected by the HDD contractor(s) must be submitted to the Project and/or FERC for approval, prior to use.

5.2 Drilling Fluid Physical Properties

The contractor shall submit a daily log at the end of each day. The Project shall provide the current version of the requested form which shall include at a minimum; the total length of drill or ream, average penetration rate, average mud flow rate, annular pressure, and basic mud properties (i.e. pH, funnel viscosity, density and sand content). Mud samples and drill statistics shall be recorded a minimum of three (3) times per shift with no less than two (2) hours between each record. If a Mud Engineer is on site, the daily log shall also include rheometer readings to determine plastic viscosity and yield point as well as gel strength. The Mud Engineer shall also supply filter press data in the form of API fluid loss and filter cake thickness. These measurements do not need to meet the three (3) times per shift quota.

5.3 Drilling Fluid Disposal

Disposal of excess drilling fluid will be the responsibility of the selected HDD contractor. Prior to beginning HDD operations, the contractor will be required to submit their proposed drilling fluid disposal procedures to the Project for approval. In some instances, a list of approved disposal sites will be provided to the contractor. The Project will review these procedures and verify that they comply with all environmental regulations, right-of-way and workspace agreements, and permit requirements.

Should, after the removal of cutting, bentonite slurry remains, it may be re-used (recycled) in the active HDD process. The method of disposal applied to each crossing will be dependent upon applicable regulations. Potential disposal methods include transportation to a remote disposal site and land farming on the construction right-of-way or an adjacent property. Land farming involves distributing the excess drilling fluid evenly over an open area and mechanically incorporating it into the soil. Where land farming is employed, the condition of the land farming site will be governed by the Project's standard clean up and site restoration specifications and FERC's *Upland Erosion Control, Revegetation and Maintenance Plan*.

6.0 HDD OPERATIONAL CONDITIONS AND RESPONSE ACTIONS

6.1 Drilling Procedures

Drilling pressures will be closely monitored so they do not exceed those needed to penetrate the formation. Pressure levels will be monitored continuously by the operator. Pressure levels will be set at a minimum level to reduce the risk of IRs. Cutters and reamers will be pulled back into previously drilled sections after each joint of pipe is added. The Project's HDD contractor will provide and maintain the following during the drilling process: instrumentation which will accurately measure the torsional loads, and the drilling fluid discharge rate and pressure. In addition to mud pump pressure monitoring. Additionally, the Project's HDD contractor will provide a means of measuring and monitoring annular pressure during pilot hole operations. Annular pressure monitoring will be required during reaming as well depending on whether pressure-sensitive situations were discovered during the pilot process. The Project will have access to instruments and their readings at all times.

Entry and exit pits will be enclosed by sediment barriers as specified in the Project-specific Erosion and Sediment Control Plan and straw bales. A spill kit will be on-site and used if an IR occurs. Except as noted below, a vacuum truck will be readily available on-site prior to and during all drilling operations. Per the Project's Spill Prevention, Control, and Countermeasure plan, containment materials (straw, fabric filter fence, sand bags, spill kits, boom and turbidity curtain, etc.) will be staged on-site at a location where they are readily available and easily mobilized for immediate use in the event of an IR. Filter Fence or Filter Sock will be installed between the bore sites and the edge of water sources prior to drilling.

The Site Supervisor will verify that:

- All equipment and vehicles are inspected and maintained daily to prevent leaks of hazardous materials.
- Spill kits and spill containment materials are available on-site at all times and that the equipment is in good working order.
- Equipment required to contain and clean up an IR is available at the bore sites during drilling activities.

*NOTE: It is the drilling contractor's responsibility to provide any IR containment materials that are necessary to respond to the release of drill fluids. The materials listed in this contingency plan are not to be considered inclusive and may require additional equipment depending on site conditions.

If the site of the IR is not able to be accessed by a vacuum truck, a pump with sufficient power to convey the released drill fluid to a containment area will be used instead. Along with the pump, an adequate amount of hose, several filter bags, straw bales, sand bags, and 18" Fabric Filter Fence (or Compost Filter Sock) will be kept on site to create a containment area on site. Water containing mud, silt, drilling fluid, or other materials from equipment washing or other activities, will not be allowed to enter a lake, flowing stream, or any other water source.

6.2 Monitoring and Pedestrian Surveys

6.2.1 Drilling Fluid Monitoring Protocol

The drilling fluid monitoring protocol to be applied will vary depending upon the following operational conditions.

- Condition 1: Full Circulation
- Condition 2: Loss of Circulation
- Condition 3: Inadvertent Returns

Monitoring Protocol for Condition 1 – Full Circulation

When HDD operations are in progress and full drilling fluid circulation is being maintained at one or both of the HDD endpoints, the following monitoring protocol will be implemented.

- Utilization of an annular pressure monitoring tool during pilot hole operations
- The presence of drilling fluid returns at one or both of the HDD endpoints will be periodically documented.
- Land-based portions of the drilled alignment will be regularly walked, visually inspected and documented by HDD contractor and environmental inspector to achieve early detection of inadvertent releases of drilling fluid as well as surface heaving and settlement. This will occur throughout the daytime and will continue to occur whenever night time operations are being undertaken. Waterways will be visually inspected from the banks for a visible drilling fluid plume.
- Constant communication between experienced driller and mud system operator to assist in the observation of fluid loss.
- Proper mud pumping volume and pressures to be managed for the ground conditions encountered.
- Swabbing of the borehole to assist in cuttings removal and maintaining circulation when drilling conditions allow.
- Proper mud properties to be maintained for the conditions encountered. A drilling fluid specialist may be consulted if any changes to mud properties are required.
 - Mud properties that will be monitored include mud weight, viscosity, sand content and pH.
 - The monitoring of mud properties will occur every 3 hours during drilling operations.
 - A drilling fluid specialist will be consulted if the following scenarios are encountered:
 - if there is a fluid spike in the annular pressure tool during pilot hole drilling;
 - if cuttings are not being removed from the hole during pilot hole drilling and/or reaming;
 - if there is a total loss of drilling fluid circulation; or
 - if high torque or pull back forces are encountered during any of the drilling phases.
- Electronic monitoring of the mud tank level will be utilized. Drilling fluid products present at the jobsite will be documented.

If an IR is detected during routine monitoring, the monitoring protocol associated with condition 3 will immediately be implemented. Monitoring Protocol for Condition 2 – Loss of Circulation

When HDD operations are in progress and drilling fluid circulation to the HDD endpoints is lost or severely diminished, the following monitoring protocol will be implemented. It should be noted that lost circulation is common and anticipated during HDD installation and does not necessarily indicate that drilling fluid is inadvertently returning to a point on the surface.

- Immediate stoppage of fluid pumps after any noticed loss of drilling fluids, followed by an immediate surface walk to look for any fluids that may have reached the surface.

- The Project and its HDD contractor will implement a protocol of conducting terrestrial walks along accessible drill pathway locations to monitor for surface returns whenever a loss of downhole pressure is detected. At a minimum, accessible locations will be monitored once per hour when operating under Condition 2. For less accessible locations an aerial drone or marine craft may be utilized to conduct monitoring for surface returns.
- The Project's environmental inspector will notify the Environmental Project Manager that drilling fluid circulation to the HDD endpoints has been lost or severely diminished.
- The Project's environmental and HDD inspectors will document steps taken by the HDD contractor to restore circulation. Should the contractor fail to comply with the requirements of the HDD Specification, the Project's environmental and HDD inspectors will notify the Environmental Project Manager and the Project Manager so that appropriate actions can be taken.
- If circulation is regained, the Project's environmental inspector will inform the Environmental Project Manager and resume the monitoring protocol associated with Condition 1.
- If circulation is not re-established, the Project's environmental inspector will increase the frequency of visual inspection along the drilled path alignment as appropriate. Additionally, the Project's environmental inspector will document periods of contractor downtime (during which no drilling fluid is pumped) and the contractor's drilling fluid pumping rate in case it should become necessary to estimate lost circulation volumes.

Monitoring Protocol for Condition 3 – Inadvertent Returns

If an inadvertent return of drilling fluids is detected, the following monitoring protocol will be implemented.

- The Project's environmental inspector will inform the Construction Project Manager that an inadvertent drilling fluid return has occurred and provide documentation with respect to the location, magnitude, and potential impact of the return.
- If the inadvertent return occurs on land, the Project's environmental inspector will document steps taken by the HDD contractor to contain and collect the return. Should the contractor fail to comply with the requirements of the HDD Specification, the Project's environmental inspector will notify the Construction Project Manager so that appropriate actions can be taken.
- If the inadvertent return occurs in a waterway, the Project, in consultation with appropriate parties, will determine if the return poses a threat to the environment or public health and safety.
- If it is determined that the return does not pose a threat to the environment or public health and safety, HDD operations will continue. the Project's environmental inspector will monitor and document the inadvertent return as well as periods of contractor downtime and the contractor's drilling fluid pumping rate in case it should become necessary to estimate inadvertent return volumes.
- If it is determined that the return does pose a threat to the environment or public health and safety, drilling operations will be suspended until containment measures can be implemented by the contractor. Documentation of any containment measures employed will be provided by the Project's environmental inspector. Once adequate containment measures are in place, the

contractor will be permitted to resume drilling operations subject to the condition that drilling operations will again be suspended immediately should the containment measures fail. the Project's environmental inspector will periodically monitor and document both the inadvertent return and the effectiveness of the containment measures. Periods of contractor downtime and the contractor's drilling fluid pumping rate will also be documented in case it should become necessary to estimate inadvertent return volumes. Upon completion of the HDD installation, the Project will ensure that the inadvertent drilling fluid returns are cleaned up to the satisfaction of governing agencies and any affected parties.

7.0 RESPONDING TO INADVERTENT RELEASES

Throughout the HDD process there is a loss of drilling fluid into the geologic formation through which the drill passes. In some cases, the drilling fluid may be forced to the surface resulting in what is commonly referred to as an inadvertent return. Therefore, while the intent of the HDD method is to avoid surface disturbance, surface disturbance may occur when there is an inadvertent return of drilling fluid.

It is extremely important to note that a loss of drilling fluid into the formation is not necessarily an indication that an inadvertent return has occurred or is about to occur. It is normal to lose a significant amount of fluid into the formation without ever having an inadvertent return. In fact, in very soft ground formations or in highly fractured formations it is normal to lose all the drill fluid pumped into the borehole without an inadvertent return occurring. Drill fluid pumping rates can be as high as 750 gallons per minute.

An inadvertent return cannot occur unless drill fluid escapes from the borehole into the formation. Hence preventing and managing such escapes will in turn prevent and manage inadvertent returns. Drilling fluid releases are typically caused by pressurization of the drill hole beyond the containment capability of the overburden soil material. In some cases, an inadvertent return of drilling fluid can be caused by existing conditions in the geologic materials (e.g., fractures) even if the down hole pressures are low.

Drill fluid pressures are generally the highest during the pilot hole process and hence it is this process that presents the greatest risk for an inadvertent return. If an inadvertent return occurs during the pilot hole it opens a path through the ground formation for drill fluid to escape during the subsequent processes. Hence inadvertent returns are likely, at the same location during the hole opening and pullback process. Similarly, if the pilot hole process can be completed without an inadvertent return then it is likely that the entire installation can also be completed without an inadvertent return.

The Project will conduct IR response activities in accordance with applicable regulatory requirements and will seek environmental and cultural resource clearances / approvals as necessary prior to the commencement of response activities. Additionally, the Project will conduct IR response activities in accordance with the standards and restrictions described within Resource Reports 1 and 2 for activities within uplands and wetlands / waterbodies, respectively. Therefore, the Project does not anticipate additional restrictions for equipment use and clearing to access and clean up IRs that may occur.

Considerations for managing inadvertent returns are described below.

7.1 Terrestrial Release Procedures

- Stop work immediately.
- The bore stem will be pulled back to relieve pressure on the IR.
- Isolate the area with hay bales, sand bags, filter sock, or silt fencing to surround and contain the drilling mud.
- Determine and document the following to the extent reasonably possible:
 - Quantity (gallons) of material released
 - Distance (feet) to the nearest waterbody
 - Name of the waterbody affected, if any
- Immediately contact the appropriate parties as listed in the “Required Notifications” section at the end of this document.
- A mobile vacuum truck (or pump if in an inaccessible area) will be used to pump the drilling mud from the contained area and into either a return pit or (if using a pump) into a filter bag surrounded by 18” Fabric Filter Fence or Compost Filter Sock.
- Once excess drilling mud is removed, the area will be seeded and/or replanted using species similar to those in the adjacent area or allowed to re-grow from existing vegetation.
- When there is no visible indication of flow at the IR location, the IR will be considered stabilized.

After the IR is stabilized, document the IR from discovery through post-cleanup conditions with photographs and prepare an IR incident report describing time, place, actions taken to remediate IR, and measures implemented to prevent recurrence. The incident report will be provided to the Project Environmental Coordinator within 24 hours of the occurrence.

7.2 Aquatic Release Procedures

- Stop work immediately.
- The bore stem will be pulled back to relieve pressure on the IR.
- Isolate the area with hay bales, sand bags (cofferdam), plastic sheeting, filter sock, silt fence or other appropriate containment structure to surround and contain the IR;
- Immediately contact the appropriate parties as listed in the “Required Notifications” section at the end of this document.
- Utilize clean water pumps to establish a pump around to convey upstream flow around the IR;
- Turbidity curtains may be deployed (depending on site conditions at time of IR);
- Determine and document the following to the extent reasonably possible:
 - Quantity (gallons) of the IR

- Quantity (gallons) that was released to the waterbody
- Distance (feet) the material traveled down the waterbody
- Name of the affected waterbody
- A mobile vacuum truck (or pump if in an inaccessible area) will be used to pump the drilling mud from the contained area and into either a return pit or (if using a pump) into a filter bag surrounded by 18" Fabric Filter Fence or Compost Filter Sock.
- Drilling mud will be collected and typically recycled through the drilling mud reclaimer, reused or disposed of at a licensed disposal facility.
- When there is no visible indication of flow at the IR location, the IR will be considered stabilized.

After the IR is stabilized, document the IR from discovery through post-cleanup conditions with photographs and prepare an IR incident report describing time, place, actions taken to remediate IR, and measures implemented to prevent recurrence. The incident report will be provided to the Project Environmental Coordinator within 24 hours of the occurrence.

If an IR impacts a private drinking water supply, the Southgate Project will supply temporary drinking water supply in accordance with the Project's Water Resources Identification and Testing Plan immediately after the problem is discovered. The temporary water would be supplied until testing confirms that the water quality of the water supply returns to baseline. Additional long-term measures will be employed in accordance with the Water Resources Identification and Testing Plan if necessary, including the installation of permanent treatment, connection to a secondary water source, or establishment of a new on-site source.

7.3 Wetland Release Procedures

The Project intends the final designs of the HDDs to minimize the potential for inadvertent releases at resource crossing locations. However, inadvertent releases are still possible. Should one occur, the following measures will be employed:

1. Estimate the amount of release to conclude if containment structures would effectively contain the release.
2. Implement necessary containment measures to contain and recover the slurry unless one of the following conditions is present:
 - a. The sensitivity of wetland areas may result in containment and recovery efforts causing additional disturbance due to travel of equipment and personnel, possibly offsetting any benefit gained from containing and removing the slurry.
 - b. Should the amount of the slurry be too small to allow practical collection from the affected area, the fluid will be diluted with fresh water or allowed to dry and dissipate naturally.
3. Suspend drilling operations if the release cannot be controlled or contained until appropriate containment can be installed.
4. Remove contained fluids by either a vacuum truck or by pumping to a location where a vacuum truck can access them.

5. Conduct final clean-up once HDD installation is complete

7.4 Accessing Releases Off Right-of-Way and in Inaccessible Areas

Prior to the commencement of HDD activities, the Project will attempt to acquire written permission from landowners crossed by the HDDs to allow for pedestrian monitoring and/or IR cleanup activities. The permission will allow for biological and cultural resource surveys as necessary as well as for limited equipment access for cleanup / restoration should an IR to surface or within a wetland / waterbody occur. Should an IR occur outside of approved workspaces or require a workspace variance for access to allow for cleanup / restoration, the Project will obtain the necessary environmental and/or cultural clearances and submit a request for variance to FERC for review and approval prior to the initiation of any activity outside of those approved workspaces.

8.0 RESTORATION

The Project will restore areas affected by IRs to pre-construction conditions and surface elevations to the extent practicable. Upland areas will be restored through standard right-of-way restoration procedures as detailed within Resource Report of the Environmental Report and applicable regulatory clearances and approvals. Restoration of wetlands and waterbodies will be conducted in accordance with the procedures identified within Resource Report 2 of the Environmental Report as well as applicable regulatory clearances and approvals.

9.0 CONTINGENCY PLANNING

9.1 Alternate Crossing Measures

If the HDD installation is unsuccessful and the Southgate Project determines abandonment of the HDD is necessary, the Project's proposed alternative is to use the Contingency Plan. The Contingency Plan includes implementation of an open cut wet or dry ditch crossing method (scenario dependent). This alternative crossing method would require Federal Energy Regulatory Commission and other environmental permitting approvals.

9.2 Abandonment

Should an HDD fail, and the drill hole needs to be abandoned to allow for a secondary attempt or an alternative construction method, the Project will, if necessary, seal the drill hole with grout to a point approximately five feet from the surface. The remainder of the annulus will be filled with soil and compacted as necessary to meet the density of the surrounding soil. Abandonment procedures will be completed in accordance with applicable regulatory requirements.

10.0 REFERENCES

This Contingency Plan was adapted from the following websites:

<http://www.blm.gov/pgdata/etc/medialib/blm/wy/information/NEPA/cfodocs/greencore.Par.0871.File.dat/P ODappH.pdf>

<https://www.csx.com/index.cfm/library/files/customers/property-real-estate/permitting/sample-fraction-mitigation-plan/>

http://www.energy.ca.gov/sitingcases/smud/documents/applicants_files/Data_Response_Set-1Q/APPENDIX_C_FRAC_OUT_PLAN3.PDF

Other References include:

Virginia Department of Environmental Quality (VDEQ). 2018. Division of Mineral Mining. Available online at: <https://dmme.virginia.gov/DMM/uraniumpermit.shtml> Accessed July 19, 2018.

North Carolina Geological Survey (NCGS). 2016. NC Oil and Gas Wells. Available online at: https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Energy/documents/Energy/NC_Oil_%26_Gas_Wells_terrane_plot.jpg Accessed July 16, 2018.

ACCU-VIS®

LIQUID DRILLING FLUID POLYMER



DESCRIPTION

ACCU-VIS is a liquid copolymer designed for fast field mixing, viscosity building, and clay/shale stabilization in aqueous drilling fluids. ACCU-VIS is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects.

RECOMMENDED USE

ACCU-VIS can be used to inhibit clay and shale hydration, as well as an additive in bentonite drilling fluids to increase viscosity and lower fluid loss. It may also be used with BELLE/CETCO CRUMBLES to make a high solids grout.

ACCU-VIS can also be used in drilled shafts. When added into SHORE PAC slurry, ACCU-VIS instantly boosts the viscosity, for improved viscosity, fluid loss control, bit lubrication, and shale stabilization/inhibition. Delivers instant viscosifying performance.

CHARACTERISTICS

- 50% active ingredient
- Can be mixed directly in the borehole or excavation
- Eliminates clay and shale swelling, bit balling, and sticking problems
- Excellent additive with BELLE/CETCO CRUMBLES for a high solids grout
- Fast mixing
- Forms a tight, thin filter cake in unstable formations
- Improves loading and removal of spoils
- Improves skin friction
- Maintains borehole integrity in horizontal and vertically drilled holes

MIXING AND APPLICATION

When using ACCU-VIS, pre-treat mix water with SODA ASH to a pH above 8.5. Always mix bentonite first and then add ACCU-VIS. To breakdown ACCU-VIS, add 0.5 gallon (2.25 L) of household-strength (3%-5% active) sodium hypochlorite (bleach) per 100 gallons (454 L) of drilling fluid.

When using ACCU-VIS in a SHORE PAC slurry, pre-treat mix water with SODA ASH to a pH above 8.5. Always mix SHORE PAC first and then add ACCU-VIS. To breakdown ACCU-VIS, add 1 gallon (3.8 L) of pool-grade (12%-15% active) sodium hypochlorite (bleach) per 1,000 gallons (3785 L) of SHORE PAC slurry.

PACKAGING

44 lb (20 kg) pail, 32 per pallet. All pallets are plastic-wrapped.



ACCU-VIS MIXING RATIOS

TYPICAL APPLICATION	
Added to air foam	0.5 quart per 100 gallons foam
Added to bentonite system	0.5 quart per 100 gallons drilling fluid
Added to freshwater	0.5 quart per 100 gallons water
Added to grout system	8 ounces per 24 gallons water and 1 bag/BELLE/CETCO CRUMBLES
Added to air foam	2 liters per 100 liters foam
Added to bentonite system	2 liters per 100 liters drilling fluid
Added to freshwater	2 liters per 100 liters water
Added to grout system	0.25 liters per 109 liters water and 1 bag/BELLE/CETCO CRUMBLES
DRILLED SHAFTS	
Added to freshwater	1.0 to 2.0 gallons per 1,000 gallons water
Added to boost viscosity	1.0 gallon per 1,000 gallons SHORE PAC slurry
Added to freshwater	3.78 liters to 757 liters water
Added to boost viscosity	3.78 liters per 3785 liters SHORE PAC slurry

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UPDATED: MAY 2016

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FORM: TDS_ACCU-VIS_AM_EN_201605



BARABUF®

Alkalinity, pH, Hardness Control

Product Data Sheet

Product Description

BARABUF® pH buffer is used to provide alkalinity for all water based systems and is compatible with freshwater, brines, and brine polymer systems. BARABUF pH buffer will dissolve in water and raise the pH of an aqueous system to 10.3. At pH 10.3, no more BARABUF pH buffer will dissolve. The remaining undissolved product will dissolve if the pH starts to fall and thereby act as a pH buffer. BARABUF pH buffer can be safer to use than caustic soda.

Applications / Functions

- BARABUF pH buffer can be used to increase the pH of aqueous systems up to 10.3
- Alternative to lime for treatment of carbon dioxide contamination

Advantages

- Can be safer and more suitable than caustic soda for controlling pH in polymer systems
- Can reduce the potential for hydrolysis of polymers compared to use of caustic soda and lime
- Does not cause precipitates to form when added to calcium or magnesium brines

Typical Properties

- | | |
|-----------------------------------|---------------------|
| • Appearance | Fine white powder |
| • Composition, (minimum % as MgO) | 98 |
| • Specific gravity | 3.58 |
| • Specific surface area | 86m ² /g |

Recommended Treatment

The normal treatment range of BARABUF pH buffer is 0.1-2.0 lb/bbl (0.3-5.7 kg/m³) in most fluids

Note: Up to 3 lb/bbl (8.6 kg/m³) may be used in drill-in fluids

Packaging

BARABUF pH buffer is packaged in sacks containing 50-lb (22.7-kg) net weight

www.halliburton.com/baroid

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

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9/3/2010

BARITE

WEIGHTING MATERIAL

DESCRIPTION

High-grade barium sulfate specially processed use as a drilling fluid weighting additive. BARITE meets the API Specification 13A, Section 2 requirement for a drilling fluid BARITE.

RECOMMENDED USE

Primarily for mud rotary drilling, barite increases mud density while maintaining low solids to help control formation pressures.

ADVANTAGES

- High specific gravity; raises drilling fluid density with minimum solids
- Controls formation pressure, stabilizes the borehole
- Cost-effective, non-toxic, and chemically inert

PROPERTIES

- Specific Gravity: 4.2 (minimum)
- Moisture Content: Less than 1%
- Bulk Density: 150 lbs/ft³
- Mineral Content: 94% barium sulfate

MIXING AND APPLICATION

Add BARITE through high shear mixer or jet hopper so that entire circulating volume is at uniform weight. To control artesian flow at surface, keep the hole full at all times with weighted mud. Starting with 100 gallons of mud at a weight of 9 lbs/gal, 134 lbs of BARITE will raise the weight to 10 lbs/gal and increase the volume to 104 gallons.

PACKAGING

100 lb (45 kg) bag, 40 per pallet. All pallets are plastic-wrapped.

BARITE REQUIRED TO INCREASE DENSITY OF 100 GALLONS PREMIUM GEL (8.5 lbs/gal)*

Final Weight (lbs/gal)	BARITE (lbs/100 gals)	Hydrostatic Gradient	Final Volume (gals)
9.0	67	0.468	102.0
9.5	136	0.494	104.0
10.0	208	0.520	106.0
10.5	283	0.546	108.1
11.0	361	0.572	110.3
11.5	443	0.598	112.7

*Based on PREMIUM GEL slurry of 50-60 lbs per 100 gallons of water.

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FORM: TDS_BARITE_AM_EN_201507



CETCO

CETCO® C-LUBE

DRILLING FLUID LUBRICANT

DESCRIPTION

CETCO C-LUBE is vegetable oil based lubricant for water based drilling fluids. CETCO C-LUBE is a filming type lubricant that reduces rotational torques and drag. It enhances lubricity of water based drilling fluids without adversely altering rheology.

RECOMMENDED USE

Mix CETCO C-LUBE directly into drilling fluid through the suction line or hopper when additional lubrication is required. Recommended for horizontal and vertical applications of minerals exploration, pipeline construction drilling, and most vertical and horizontal drilling uses.

CHARACTERISTICS

- Can be used in horizontal or vertical drilling
- Mixes quickly
- Quickly reduces friction and torque in all soil types

MIXING AND APPLICATIONS

Add 1 - 2 gallons (3.8 - 7.6 liters) CETCO C-LUBE/100 gallons (378.5 liters) drilling fluid directly in suction line or hopper. Increase product concentration until desired torque reduction is achieved. Apply in difficult drilling intervals. Maintain concentrations by small additions throughout drilling process as required.

TYPICAL PROPERTIES	
Specific Gravity	0.842
Color	Hazy Yellow Liquid
pH, 1% Solution	4.1
Odor	Vegetable Oil

PACKAGING

36 lb (16.3 kg) pail, 32 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_CETCO_C-LUBE_AM_EN_201507



CETCO®

CLAY CUTTER™ DRY

DRY DRILLING FLUID POLYMER



DESCRIPTION

CLAY CUTTER DRY is an easy-mixing, water-soluble, polymer used in horizontal and vertical drilling applications. CLAY CUTTER DRY is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

RECOMMENDED USE

CLAY CUTTER DRY should be added to fresh or saltwater drilling fluids to increase cuttings returns and reduce torque and drag when drilling in reactive clay soils. This additive may be used in both HDD and Waterwell applications.

CHARACTERISTICS

- Eliminates clay and shale swelling, bit balling, and sticking problems
- Increases returns back to the surface
- Non-hazardous
- Quick mixing and rapid yield in freshwater
- Reduces torque and pullback pressures
- Stabilizes the borehole



MIXING AND APPLICATION

SUPER GEL-X/HYDRAUL-EZ systems: add 0.25 to 1 lb per 100 gallons (113 g to 0.45 kg per 450 liters) to stabilize reactive clay formations.

When using a non-clay freshwater system add 0.5 to 2 lbs per 100 gallons (227 g to 0.9 kg per 450 liters) to stabilize clay formations, increase returns to surface, and reduce torque, drag, and bit balling.

PACKAGING

20 lb (9 kg) pails, 60 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_CLAY_CUTTER_DRY_AM_EN_201507



CETCO

CLAY CUTTER™ PRO

DRY CLAY INHIBITOR

DESCRIPTION

CLAY CUTTER PRO is a concentrated, non-hazardous, proprietary clay inhibitor that can be used with either polymer or bentonite drilling fluid systems. CLAY CUTTER PRO is an ideal additive for HDD bores in reactive clay soils.

RECOMMENDED USE

CLAY CUTTER PRO is to be used on any size HDD bore. Using CLAY CUTTER PRO will greatly reduce or eliminate clay cuttings from sticking to each other and to the drilling tools. Swelling of the bore will be reduced or eliminated. Rotation and pullback pressures will be significantly reduced.

CHARACTERISTICS

- Greatly reduces clay rings and bit balling
- Increases returns back to the surface
- Non-hazardous
- Readily dispersible
- Reduces pullback pressures
- Reduces torque
- Will not significantly alter yield point or filtrate

MIXING AND APPLICATIONS

Add CLAY CUTTER PRO to the drilling fluid system last. For sticky and swelling clays use 0.5 to 2 lbs per 1000 gallons (227 g to 0.9 kg per 3785 liters) depending on water sensitivity of the formation.

For maximum effectiveness, CLAY CUTTER PRO should be used starting with the pilot hole and all reaming and pullback stages. Clays begin swelling and absorbing water immediately upon contact with water starting with the pilot hole. CLAY CUTTER PRO will eliminate or greatly reduce this problem.

TYPICAL PROPERTIES	
Appearance	Clear to amber liquid
Specific Gravity	1.01
Solubility	Soluble in brine & freshwater

PACKAGING

20 lb (9 kg) pail, 48 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_CLAY_CUTTER_PRO_AM_EN_201605



CETCO®

CLAY CUTTER™

CLAY INHIBITOR

DESCRIPTION

CLAY CUTTER is a concentrated, non-hazardous, proprietary clay inhibitor that can be used with either polymer or bentonite drilling fluid systems. CLAY CUTTER is an ideal additive for HDD bores in reactive clay soils.

RECOMMENDED USE

CLAY CUTTER is to be used on any size HDD bore. Using CLAY CUTTER will greatly reduce or eliminate clay cuttings from sticking to each other and to the drilling tools. Swelling of the bore will be reduced or eliminated. Rotation and pullback pressures will be significantly reduced.

CHARACTERISTICS

- Greatly reduces clay rings and bit balling
- Increases returns back to the surface
- Non-hazardous
- Readily dispersible
- Reduces pullback pressures
- Reduces torque
- Will not significantly alter yield point or filtrate

MIXING AND APPLICATIONS

Add CLAY CUTTER to the drilling fluid system last. For sticky and swelling clays use 0.5 to 1 gallon per 1,000 gallons (2 to 4 liters/4 m³) depending on water sensitivity of the formation.

For maximum effectiveness, CLAY CUTTER should be used starting with the pilot hole and all reaming and pullback stages. Clays begin swelling and absorbing water immediately upon contact with water starting with the pilot hole. CLAY CUTTER will eliminate or greatly reduce this problem.

TYPICAL PROPERTIES	
Appearance	Clear to amber liquid
Specific Gravity	1.01
Solubility	Soluble in brine & freshwater

PACKAGING

42 lb (18.9 kg) pail, 32 per pallet and 465 lb (209 kg) drum, 4 per pallet. All pallets are plastic-wrapped.



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FORM: TDS_CLAY_CUTTER_AM_EN_201507



CETCO®

INSTA-VIS™ PLUS

LIQUID DRILLING FLUID POLYMER



DESCRIPTION

INSTA-VIS PLUS is a multi-functional liquid polymer designed to improve drilling efficiency in both horizontal and vertical drilled holes through its rapid field mixing, viscosity development, and clay and shale inhibition. INSTA-VIS PLUS is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

RECOMMENDED USE

Designed for use as a drilling fluid polymer for improved viscosity, bit lubrication, and shale stabilization/inhibition. Can be mixed into SUPER GEL-X or HYDRAUL-EZ slurries for use in vertical or horizontal drilling applications. INSTA-VIS PLUS can be used in many drilling applications including GSHP loop installation, minerals exploration, pipeline, sewer, communications installation, and waterwell construction

CHARACTERISTICS

- Can be used with VERSAFOAM PLUS to produce a stiff foam
- Eliminates clay and shale swelling, bit balling, and sticking
- Flocculates non-reactive solids in reserve pit
- High lubricity reduces torque
- Maintains borehole integrity in both horizontal and vertical holes
- Quick mixing and rapid yield in freshwater

MIXING AND APPLICATION

Adjust mix water pH to above 7.0 to maximize product performance. Always mix bentonite first, then add INSTA-VIS PLUS at a slow, steady rate. To breakdown INSTA-VIS PLUS, add 0.5 lb (0.25 kg) of sodium hypochlorite (bleach) per 100 gallons (380 liters) of drilling fluid.

INSTA-VIS PLUS MIXING RATIOS:	
Added to freshwater	1/2 to 1 quart/100 gallons (0.25 to 0.5 liter per 380 liters) freshwater
Added to bentonite system	1/2 quart/100 gallons (0.25 liter per 380 liters) drilling fluid
Added to VERSAFOAM PLUS	1/2 quart/100 gallons (0.25 liter per 380 liters) foam mix

PACKAGING

40 lb (18 kg) pail, 32 per pallet. All pallets are plastic-wrapped.



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FORM: TDS_INSTA-VIS_PLUS_AM_EN_201507



CETCO

MULTI-SEAL

BLENDED LOST CIRCULATION MATERIAL

DESCRIPTION

MULTI-SEAL is a select blend of four types of materials normally used for lost circulation. A flake material (cellophane), a granular material (nut shells), fine fibrous material (ground paper), and coarse fibers (cedar fibers). MULTI-SEAL is blended in the proper ratio to produce the most effective seal. MULTI-SEAL contains no fermenting materials or materials that chemically change the rheological properties of the fluid, even polymer mud's.

RECOMMENDED USE

MULTI-SEAL is used to stop the most costly loss returns which are the unexpected. MULTI-SEAL plugs formations that contain fractured sandstones, unconsolidated or highly permeable formations, natural fractures or voids, and cavernous type loss zones. MULTI-SEAL is specially formulated for all loss circulation conditions.

ADVANTAGES

- Assists in forming a fast effective bridge
- Blended to have the proper particle size for maximum plugging
- Most effective loss circulation material available
- Regains circulation quickly

CHARACTERISTICS

APPEARANCE

- coarse fibers (cedar fibers)
- fine fibrous material (ground paper)
- flake material (cellophane)
- granular material (nut shells)

MIXING AND APPLICATION

MULTI-SEAL concentrations will vary in different type fluids depending on weight and viscosity. As a preventive measure in concentrations of 2-10 lbs per 200 gallons (1-5 kg per 750 liters). As a "pill" mixed with the mud being used at concentrations of 15-20 lbs per 200 gallons (7.50-10 kg per 750 liters). These are recommendations only. The concentrations will vary depending on the mud weight, viscosity, and type of loss circulation involved.

PACKAGING

40 lb (18 kg) bag, 60 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_MULTI-SEAL_AM_EN_201507



CETCO

MULTI-SEAL

BLENDED LOST CIRCULATION MATERIAL

DESCRIPTION

MULTI-SEAL is a select blend of four types of materials normally used for lost circulation. A flake material (cellophane), a granular material (nut shells), fine fibrous material (ground paper), and coarse fibers (cedar fibers). MULTI-SEAL is blended in the proper ratio to produce the most effective seal. MULTI-SEAL contains no fermenting materials or materials that chemically change the rheological properties of the fluid, even polymer mud's.

RECOMMENDED USE

MULTI-SEAL is used to stop the most costly loss returns which are the unexpected. MULTI-SEAL plugs formations that contain fractured sandstones, unconsolidated or highly permeable formations, natural fractures or voids, and cavernous type loss zones. MULTI-SEAL is specially formulated for all loss circulation conditions.

ADVANTAGES

- Assists in forming a fast effective bridge
- Blended to have the proper particle size for maximum plugging
- Most effective loss circulation material available
- Regains circulation quickly

CHARACTERISTICS

APPEARANCE

- coarse fibers (cedar fibers)
- fine fibrous material (ground paper)
- flake material (cellophane)
- granular material (nut shells)

MIXING AND APPLICATION

MULTI-SEAL concentrations will vary in different type fluids depending on weight and viscosity. As a preventive measure in concentrations of 2-10 lbs per 200 gallons (1-5 kg per 750 liters). As a "pill" mixed with the mud being used at concentrations of 15-20 lbs per 200 gallons (7.50-10 kg per 750 liters). These are recommendations only. The concentrations will vary depending on the mud weight, viscosity, and type of loss circulation involved.

PACKAGING

40 lb (18 kg) bag, 60 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_MULTI-SEAL_AM_EN_201507



CETCO

PERFORMATROL®

Shale Stabilizer

Product Data Sheet

Product Description

PERFORMATROL® shale stabilizer is a low weight polymer that stabilizes reactive clays and shale by inhibiting the uptake of water and thereby mitigating their swelling or dispersion tendencies. PERFORMATROL shale stabilizer can also flocculate any dispersed clays or colloidal particles and aid their removal by solids control equipment. PERFORMATROL shale stabilizer is effective in freshwater or monovalent brines, is shear thinning, provides lubricity, has a low environmental toxicity, is highly biodegradable and is non-hazardous to rig personnel. PERFORMATROL shale stabilizer is stable to 250°F (121°C) but may achieve higher temperature stability with the use of oxygen scavengers.

Applications / Functions

- Helps inhibit swelling and disintegration of reactive shales
- Helps flocculate dispersed clays and other colloidal particles

Advantages

- Highly effective in potassium-based systems and can be used in freshwater fluids
- Very low environmental toxicity, highly biodegradable
- Minimal effect on drilling fluid viscosity and fluid loss control
- Non-hazardous to rig personnel
- Gold rated with no substitution warning for use in North Sea

Typical Properties

- | | |
|--------------------|---------------------------------|
| • Appearance | Clear, colorless viscous liquid |
| • Specific gravity | 1.03 |

Recommended Treatment

Dependant upon reactivity of shales encountered but typically 3% v/v

Packaging

PERFORMATROL shale stabilizer is available in 964-kg IBC tanks and in bulk

www.halliburton.com/baroid

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

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8/31/2010

PUREGOLD[®] LUBE

PREMIUM GRADE LUBRICANT

DESCRIPTION

PUREGOLD LUBE is an environmentally safe premium grade lubricant, free of petroleum hydrocarbons and metals. PUREGOLD LUBE is a tool joint lubricant designed for use in environmental drilling.

RECOMMENDED USE

PUREGOLD LUBE is used to lubricate threads on drill rod stems, auger bolts, and sampling devices. Helps prevent seizing and reduces thread wear. PUREGOLD LUBE may also be used to lubricate other tools and instruments used in environmentally sensitive applications.

CHARACTERISTICS

- Chemically stable
- Easily removed during decontamination
- Maintains sample integrity
- Provides maximum protection to the drill string
- Reduces friction and helps prevent seizing
- Reduces thread wear
- Remains workable in cold temperatures
- Washout resistant

MIXING AND APPLICATION

PUREGOLD LUBE should be applied liberally onto threads using a stiff brush. After joint is tightened, excess or extruded material should be removed.

PACKAGING

8 lb (3.6 kg) plastic pails, 100 per pallet. All pallets are plastic-wrapped.

North America: 847.851.1800 | 800.527.9948 | www.CETCO.com

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FORM: TDS_PUREGOLD_LUBE_AM_EN_201507



CETCO[®]

REL-PAC®

NATURAL CELLULOSIC POLYMER

DESCRIPTION

REL-PAC is a non-fermenting granular polymer designed for building a low solids drilling fluid with increased borehole stability. REL-PAC is a highly dispersible polymer, which prevents the formation of hard lumps or fish eyes, for maximum product efficiency.

RECOMMENDED USE

REL-PAC is designed to increase borehole stability in a variety of rotary and horizontal drilling applications.

CHARACTERISTICS

- Controls filtration rate and assists in forming thinner, less permeable filter cake
- Encapsulates solids for a total lower solids system
- Highly dispersible
- Improves fluid viscosity for effective removal of drill cuttings
- May be used in fresh or saltwater conditions
- Stabilizes drilled formations

MIXING AND APPLICATION

Mix at low shear through a mud hopper to avoid lumping and to minimize waste. Add 0.5 to 1.5 pounds (0.25 to 1 kg) of REL-PAC per 100 gallons (380 liters) of existing bentonite drilling fluid for hole stabilization. Dosage scoop included is equivalent to 1/2 lb.

PACKAGING

25 lb pail (11.3 kg) with dosage scoop, 36 per pallet or 50 lb bag (22.7 kg) 40 per pallet. All pallets are plastic-wrapped.



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FORM: TDS_REL-PAC_AM_EN_201507



CETCO®

SODA ASH

SODIUM CARBONATE

DESCRIPTION

SODA ASH is the common name for sodium carbonate, which separates calcium into sodium and carbonate ions in solution.

RECOMMENDED USE

SODA ASH is used to raise the pH of make-up water for bentonite and polymer drilling fluids by precipitating soluble calcium. Using SODA ASH will increase the performance of bentonite and polymer drilling fluids.

ADVANTAGES

- Easy to mix and use
- Economical method to increase pH
- Maximizes yield of drilling fluid

MIXING AND APPLICATION

SODA ASH should be added slowly through a hopper or chemical barrel. When using a barrel, mix SODA ASH into a full barrel of freshwater and provide adequate agitation. Add SODA ASH until pH of 8.5-9.5 is obtained. Suggested ratio is 0.33 to 0.5 lb per 100 gallons (0.25 kg to 0.5 kg per 380 liters) water.

MIXING AND APPLICATION	
Physical Appearance	White Powder
pH (1 % solution)	11.4
Specific gravity	2.51
Solubility	51 g/100 ml at 86 °F (30 °C)

CHARACTERISTICS

PACKAGING

50 lb (22.7 kg) bags, 49 per pallet or 50 lb (22.7 kg) pails, 32 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_SODA_ASH_AM_EN_201507



CETCO

SODIUM BICARBONATE

NEUTRAL PH BUFFER

DESCRIPTION

SODIUM BICARBONATE, NaHCO_3 is used to lower the pH of drilling slurry from a pH of 12-13 (alkaline) to a neutral pH range of 8-9. A white powder, SODIUM BICARBONATE is also added to a base drilling fluid as a pH neutralizing additive. A buffer, SODIUM BICARBONATE is added to acidic water to raise the pH to 8-9.

RECOMMENDED USE

SODIUM BICARBONATE is used to treat cement contamination in SHORE PAC drilling slurry and bentonite water based drilling fluids. It is also used as a buffer. SODIUM BICARBONATE will remove calcium and manganese making hard water soft.

CHARACTERISTICS

- Easy to mix and use, soluble in water
- Economical method to lower pH
- Safe to use, noncombustible

MIXING AND APPLICATION

SODIUM BICARBONATE should be added to the mixing water prior to mixing the primary drilling product. SODIUM BICARBONATE dissolves readily in water. Add slowly through a hopper at a ratio of 5 lbs per 1,000 gallons mix water.

CHARACTERISTICS

Appearance	White powder
Solubility	7.8 g/100 g water @ 64 °F (18 °C)
pH (1% solution)	8.3
Density	2.2

PACKAGING

50 lb bags, 49 bags per pallet.

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FORM: TDS_SODIUM_BICARBONATE_AM_EN_201507



CETCO®

SUPER PAC™

DRILLING FLUID ENHANCER

DESCRIPTION

SUPER PAC is an easy mixing, liquid polymer that enhances the properties of a bentonite drilling fluid. When added to HYDRAUL-EZ or SUPER GEL-X, SUPER PAC creates an ideal fluid for drilling in a variety of conditions.

RECOMMENDED USE

This multifunctional polymer is designed for use as a drilling fluid additive for inhibition of clay and shale, minimizing fluid loss to the formation, and increasing viscosity for cuttings transport and suspension.

CHARACTERISTICS

- Increases viscosity of drilling fluid
- Inhibits the hydration of clays and shale
- Provides filtration control in both fresh and saltwater
- Reduces fluid loss in permeable formations

MIXING AND APPLICATIONS

Mix at low shear through a mud hopper. Add 0.5 to 1 quart per 100 gallons (0.5 to 1.0 liter per 380 liters) of existing bentonite drilling fluid for hole stabilization.

PACKAGING

42 lb (19.1 kg) pail, 32 per pallet. All pallets are plastic-wrapped.



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FORM: TDS_SUPER_PAC_AM_EN_201606



CETCO®

SUPER THIN™

DRILLING FLUID THINNER/DEFLOCCULANT



DESCRIPTION

SUPER THIN is a highly concentrated additive engineered to reduce drilling fluid viscosity, assist in settling solids, and disperse the filter cake created by a bentonite drilling fluid. It offers immediate thinning action, reduces gel strength, and is more cost-effective than traditional thinners. SUPER THIN is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

RECOMMENDED USE

Designed to reduce viscosity and gel strength. SUPER THIN promotes wall cake breakdown and aids in well completion by breaking up accumulated clays.

CHARACTERISTICS

- Functions at all pH levels
- Immediate thinning action
- More cost-effective than traditional thinners
- Non-toxic and no heavy metal content
- Reduces gel strength to drop out solids
- Thermally stable in excess of 350°F (177°C)



MIXING AND APPLICATION

Drilling Fluid Thinner	2 pints per 100 gallons (1 liter per 380 liters) drilling fluid.
Development Aid	2-4 gallons (7.5-15 liters) pumped into well intake area will promote break-up of wall cake. The well shall be properly flushed and drained before being placed in service.

1. When using SUPER THIN as a mud thinner the product is added directly to the bentonite slurry through the mixing hopper, or at the discharge line or directly into the tank. Additive amounts may vary from 1-2 pints per 100 gallons (0.5-1 liters per 380 liters) of bentonite slurry based on the amount of bentonite in the mud slurry and the desired effect or purpose.
2. When used as a well development aid SUPER THIN is spotted at the well screen zone as a pill of 2-4 gallons (7.5-15 liters) placed with freshwater to the zone. Well development can be augmented with mechanical energy and should take place over a period of at least 4 hours.

3. SUPER THIN can normally be washed from the well using normal development techniques using sodium hypochlorite as a disinfectant at a rate of 1 part/1000, with air sparging or with pump-method development.

4. Properly flushed and drained describes well development process which causes a condition in which the well water is found to be at the natural, normal pH and mineralization, free of drilling fluid, and free of any other contamination that may have been introduced into the aquifer during the drilling or well construction process. The duration of this well development process must be determined by the well driller based on the aquifer conditions and the well drilling and construction process that may vary widely with each well and in each different geographic and geologic region.

TYPICAL PROPERTIES

Appearance	Light Amber	pH (as Supplied)	7.0~9.0
Ionic Character	Anionic	Flash Point	None
Specific Gravity	1.25 g/cc	Freeze Thaw Stability	Excellent

PACKAGING

45 lb (20.4 kg) pail, 32 per pallet, 55 gallon drum, 4 per pallet, or 278 gallon tote. All pallets are plastic-wrapped.

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UPDATED: MARCH 2017

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FORM: TDS_SUPER_THIN_AM_EN_201507



CETCO

SUSPEND-IT™

SUSPENSION ENHANCER

DESCRIPTION

SUSPEND-IT is an easy mixing biopolymer additive used to control drilling fluid rheology.

RECOMMENDED USE

Designed to enhance gel strength of the drilling fluid for improved suspension and transporting of drill cuttings, gravel, and cobble on long bores. SUSPEND-IT will perform effectively in fresh or saltwater.

CHARACTERISTICS

- Easily dispersed in drilling fluids
- Enhances gel strength with little increase of viscosity
- Performs well in fresh and saltwater
- Transports larger cuttings, gravel and cobble easily on long bores
- Improves PV/YP
- Strengthens filter cake and improves bore stability

MIXING AND APPLICATION

Pour slowly through a hopper at maximum shear to avoid lumping and to minimize waste. Add 0.5 to 1 pound per 100 gallons (0.25 to 0.5 kg per 380 liters) of SUSPEND-IT to existing drilling fluid. Dosage scoop included is equivalent to 1/2 lb.

PACKAGING

35 lb (11.3 kg) pail, 36 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_SUSPEND-IT_AM_EN_201507



CETCO®

VARIFLO® CG

EASY DISPERSING DRILLING POLYMER

DESCRIPTION

VARIFLO CG is a powdered, high-viscosity blend of modified cellulose polymer formulated for easy and quick dispersion in drilling applications. VARIFLO CG bonds to soil particles providing support and builds a protective wall cake. Low fluid loss characteristics and high viscosity help maintain hydraulic head.

PACKAGING

25 lb (11.3 kg) pail, 36 per pallet. All pallets are plastic-wrapped.

CHARACTERISTICS

- Biodegradable
- Easy to mix in brackish water
- High viscosity formula
- No lumping while mixing
- Quick dispersing

MIXING AND APPLICATIONS

Add VARIFLO CG slowly through a jet type mixer. If product is fed too quickly, lumping or balling will occur. Hydrate VARIFLO CG slowly first 3-10 minutes then add soda ash at 0.25 lb/100 gallons; follow with rapid hydration for 15-60 minutes. VARIFLO CG should not be poured unmixed into a pit or mixing tank.

FLUID BREAKDOWN

Chlorine concentrations of 1,000 ppm are recommended to effectively breakdown VARIFLO CG. Approximately 20 gallons of sodium hypochlorite (bleach) or 13 lbs of calcium hypochlorite per 1,000 gallons of drilling fluid is required.

FORMATION MATERIAL	IDEAL MFV (SECONDS)	LBS OF VARIFLO CG PER 100 GALLONS OF WATER ⁽¹⁾
Fine Sand	40	3.5
Medium Sand	50	4.0
Coarse Sand	60	5.0
Gravel	70-80	6.0-7.0

(1) assuming water temperature of 60 °F.

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FORM: TDS_VARIFLO.CG_AM_EN_201507



CETCO®

VARIFLO® QD

QUICK DISPERSING GUAR GUM

DESCRIPTION

VARIFLO QD is a coarse granular, high-viscosity blend of guar gum formulated for easy and quick dispersion in drilling applications. Coarser granules prevent lumps or encapsulation.

CHARACTERISTICS

- Biodegradable
- Easy to mix in brackish water
- High viscosity formula
- No lumping while mixing
- Quick dispersing

MIXING AND APPLICATIONS

Add VARIFLO QD slowly through a jet type mixer. If product is fed too quickly, lumping or balling will occur. Hydrate slowly first 3-10 minutes; follow with rapid hydration for 15-60 minutes. VARIFLO QD should not be poured unmixed into a pit or mixing tank.



Formation Material	Ideal MFV (seconds)	Lbs of VARIFLO QD per 100 gallons of water ⁽¹⁾
Fine Sand	40	3.5
Medium Sand	50	4.5
Coarse Sand	60	5.5
Gravel	70-80	7-7.5

(1) assuming water temperature of 60°F.

Formation Material	Ideal MFV (seconds)	Kg of VARIFLO QD per 380 liters of water ⁽¹⁾
Fine Sand	40	1.5
Medium Sand	50	2.0
Coarse Sand	60	2.5
Gravel	70-80	3.5

(1) assuming water temperature of 15.5°C

FLUID BREAKDOWN

Chlorine concentrations of 1,000 ppm are recommended to effectively breakdown VARIFLO QD. Approximately 20 gallons (115 liters) of sodium hypochlorite (bleach) or 13 lbs (6 kg) of calcium hypochlorite per 1,000 gallons (3.8 m³)drilling fluid is required.

PACKAGING

25 lb (11.3 kg) pail, 36 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_VARIFLO_QD_AM_EN_201507



CETCO®

VERSAFOAM® PLUS

HIGH PERFORMANCE DRILLING FOAM



DESCRIPTION

VERSAFOAM PLUS is an ultra high-yielding, biodegradable, liquid foaming agent for use in fresh and saltwater air rotary drilling. VERSAFOAM PLUS is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

RECOMMENDED USE

Dry air rotary drilling or mixed with water for foam drilling.

CHARACTERISTICS

- Highly concentrated for maximum yield
- Lubricates and cools bit, improving penetration rate
- Mixes easily in fresh or saltwater
- Reduces air-volume requirements
- Reduces hydrostatic pressure
- Reduces water consumption
- Suppresses dust



MIXING AND APPLICATION

Dust Suppressant	0.5-1 pint air stream (0.25- 0.5 liters) into air stream
Mist Drilling	1-2 quarts per 100 gallons (1-2 liters per 380 liters) water
Foam Drilling	2-4 quarts per 100 gallons (2-4 liters per 380 liters) water
Cleanout Instructions	When used in drilling potable water supply wells, blow all foam from the borehole at the end of drilling operations and follow typical well cleanup, development, and sanitation procedures sufficient to remove any remaining foam residue prior to placing the well in service.

PACKAGING

43 lb (19.35 kg) pail, 32 per pallet or 476 lb (214 kg) drum, 4 per pallet. All pallets are plastic-wrapped.

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FORM: TDS_VERSAFOAM_PLUS_AM_EN_201507



CETCO®



MVP Southgate Project

Docket No. CP19-14-000

Attachment 38-1

March 2019

Table 38-1
[Revised Table 3.2-2]

Fisheries of Special Concern Crossed by the MVP Southgate Project a/

State	County	MP	Waterbody ID	Stream Name	Proposed Crossing Method	Source of Concern <u>b/</u>	Restricted In-stream Construction Window <u>c/</u>
Virginia	Pittsylvania	4.9	S-E18-3	Banister River	Dry Crossing	Potential Occurrence of Protected Mussel Species (per VDCR & VDGIF communications)	Consultations ongoing
Virginia	Pittsylvania	17.7	S-E18-44	Sandy River	Dry Crossing	Potential Occurrence of Protected Mussel Species (per VDGIF communication)	Consultations ongoing
North Carolina	Rockingham	27.5	S-A18-42	Cascade Creek	Conventional Bore	Potential Occurrence of Protected Mussel and Fish Species (per NCWRC and USFWS communication)	Consultations ongoing
North Carolina	Rockingham	27.7	S-A18-40	Cascade Creek	Conventional Bore	Potential Occurrence of Protected Mussel and Fish Species (per NCWRC and USFWS communication)	Consultations ongoing
North Carolina	Rockingham	30.2	S-A18-17	Dan River	HDD	Potential Occurrence of Protected Mussel and Fish Species (per NCWRC and USFWS communication)	Consultations ongoing
North Carolina	Rockingham	31.4	S-B18-95	Rock Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Rockingham	32.2	S-A18-147	Machine Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Rockingham	32.7	S-A18-151-A	Town Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Rockingham	33.1	S-A18-151-B	Town Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Rockingham	38.8	AS-A18-8	Wolf Island Creek	Conventional Bore	Potential Occurrence of Protected Mussel and Fish Species (per NCWRC and USFWS communication)	Consultations ongoing
North Carolina	Rockingham	41.2	S-B18-56	Lick Fork	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Rockingham	43.3	S-A18-176	Jones Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing

Table 38-1
[Revised Table 3.2-2]

Fisheries of Special Concern Crossed by the MVP Southgate Project a/

State	County	MP	Waterbody ID	Stream Name	Proposed Crossing Method	Source of Concern <u>b/</u>	Restricted In-stream Construction Window <u>c/</u>
North Carolina	Rockingham	47.0	S-C18-76/ AS-C18-76	Hogans Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Rockingham	48.7	S-A18-60	Giles Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	50.9	AS-NHD-305	UNT Haw River	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	52.8	S-B18-94	UNT Haw River	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	53.7	S-A18-84	UNT Haw River	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	58.7	S-C18-11	UNT Haw River	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	63.6	S-B18-16/AS-B18-16	Stony Creek	HDD	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	64	AS-NHD-1547	Deep Creek	Conventional Bore	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing
North Carolina	Alamance	67.1	AS-NHD-1558	Boyds Creek	Dry Crossing	Potential Occurrence of Protected Mussel Species (per NCWRC communication)	Consultations ongoing

Note: MP listed for access roads is nearest pipeline MP.

a/ Consultations are ongoing with USFWS, VDGIF, and NCWRC to determine which waterbodies are to be deemed fisheries of special concern based on potential presence of listed species, including fish, mussels, and crayfish. Therefore, this table will be updated to reflect the consultations as they are completed.

b/ Sources of concern are derived from: initial consultation with North Carolina Wildlife Resources Commission and USFWS – Raleigh Field Office (3 July 2018), communications with North Carolina Wildlife Resources Commission (10 August 2018), communications with Virginia Department of Game & Inland Fisheries (25 September 2018), and communications with Virginia Department of Conservation and Recreation (8 June 2018).

c/ The Project will continue consultation with the agencies to determine applicable avoidance, minimization, or mitigation strategies (i.e. relocation surveys, time of year restrictions) to eliminate or reduce negative impacts to fisheries.

Sources: Agency Consultations (see Resource Report 1, Appendix 1-K)



MVP Southgate Project

Docket No. CP19-14-000

Attachment 52-1

March 2019

Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Sunday, March 03, 2019 11:20 AM
To: Stephanie Frazier
Cc: alex.miller@nexteraenergy.com
Subject: 2/4 Phone Memo - NCWRC

On February 4, 2019, I spoke with Vann Stancil (NCWRC) regarding crayfish. Vann said that NCWRC is still interested in crayfish surveys and is open to a reduced survey effort. Vann recommended reducing the search area in half, from 200-feet to 100-feet around 1st through 3rd order mapped intermittent and perennial streams within the planned disturbance area, and if a Greensboro burrowing crayfish is found, then increase the search area to 200 feet around the stream. If individuals are found, NCWRC plans to hold the animals until the activities have subsided and then they will return the animals to their habitat. I told Vann that I would discuss this approach with the Project team and get back to him.

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587
mstahl@equitransmidstream.com
****Please note my new email address***



Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Sunday, March 03, 2019 11:21 AM
To: Stephanie Frazier
Cc: alex.miller@nexteraenergy.com
Subject: 2/11 Phone Memo - USFWS

On February 11, 2019 I spoke to John Ellis (USFWS). He asked if the Project is still planning to bore crossings that we have been discussing (Dan River, Cascade Creek and Wolf Island Creek). I confirmed that is still the plan. John said that was good to hear and that he anticipates we can keep the project in informal consultation. I asked John if USFWS plans to issue individual clearance letters by species as surveys are completed and he said he does not plan to do so.

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587
mstahl@equitransmidstream.com
****Please note my new email address***



Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Wednesday, February 20, 2019 4:17 PM
To: John_Ellis@fws.gov; Troy Andersen; Stancil, Vann F; Ernst Aschenbach; rr ProjectReview (DGIF)
Cc: alex.miller@nexteraenergy.com; Stephanie Frazier
Subject: MVP Southgate Exotic and Invasive Plant Species Control Plan
Attachments: Public_RR03_Appendix 3-B_MVP Southgate Project_FERC Supplement-01-23-19.pdf

Good afternoon,

I am writing to provide you with the Project Exotic and Invasive Plant Species Control Plan for your records. Please note that this was filed on the FERC docket on January 24. Also, please note that I emailed this plan separately to VDCR and NCNHP requesting approval of this Plan.

Feel free to call me to discuss.

Thank you,

Megan

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587

mstahl@equitransmidstream.com

****Please note my new email address***





MVP Southgate Project

Exotic and Invasive Plant Species Control Plan

January 2019

Mountain Valley Pipeline, LLC (“Mountain Valley”) developed an upland exotic and invasive plant species control plan for the MVP Southgate (“Project”). Invasive species are defined in Federal Executive Order (“EO”) 13112(1999), as “an alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health”. The intent of EO 13112 is to “prevent the introduction of invasive species and provide for their control and to minimize the economic, ecological, and human health impacts that invasive species cause”, and directs federal agencies to prevent, detect, respond to, monitor, and research invasive species. The purpose of this plan is to identify potential undesirable vegetation associated with the Project and outline methods to prevent recruitment and spread of exotic and invasive species.

Searches for terrestrial invasive plants along the right-of-way were directed to species with a high likelihood of occurring in the geographical region. Species search lists were populated with information available through the Virginia Department of Conservation and Recreation and the North Carolina Native Plant Society (Table 1). Species identified in Table 1 are considered moderately or highly invasive.

Table 1		
Non-native Invasive Plant Species With Potential to Occur Along the Project Route.		
Scientific Name	Common Name	Growth Form
Virginia Species - High Rank Category^a		
<i>Ailanthus altissima</i>	Tree of Heaven ^b	Tree
<i>Alliaria petiolata</i>	Garlic mustard ^b	Herb
<i>Ampelopsis brevipedunculata</i>	Porcelain berry ^b	Shrub
<i>Celastrus orbiculatu</i>	Oriental bittersweet ^b	Vine
<i>Centaurea stoebe</i> ssp. <i>Micranthos</i>	Spotted knapweed ^b	Herb
<i>Cirsium arvense</i>	Canada thistle	Herb
<i>Dioscorea polystachya</i>	Cinnamon vine	Vine
<i>Elaeagnus umbellata</i>	Autumn olive ^b	Tree
<i>Euonymus alatus</i>	Winged euonymus	Shrub
<i>Ficaria verna</i>	Lesser celandine	Herb
<i>Hydrilla verticillata</i>	Hydrilla	Herb, aquatic
<i>Iris pseudacorus</i>	Yellow flag	Herb
<i>Lespedeza cuneata</i>	Chinese lespedeza ^b	Herb
<i>Ligustrum sinense</i>	Chinese privet ^b	Shrub
<i>Lonicera japonica</i>	Japanese honeysuckle ^b	Vine
<i>Lonicera maackii</i>	Amur honeysuckle ^b	Shrub
<i>Lonicera morrowii</i>	Morrow's honeysuckle	Shrub
<i>Lythrum salicaria</i>	Purple loosestrife	Herb
<i>Microstegium vimineum</i>	Japanese stiltgrass ^b	Grass
<i>Murdannia keisak</i>	Marsh dewflower ^b	Herb
<i>Myriophyllum aquaticum</i>	Parrot feather	Herb, aquatic
<i>Myriophyllum spicatum</i>	Eurasian milfoil	Herb, aquatic
<i>Persicaria perfoliate</i>	Mile a minute ^b	Vine
<i>Phragmites australis</i> ssp. <i>australis</i>	Common reed	Herb, aquatic
<i>Pueraria montana</i> var. <i>lobata</i>	Kudzu ^b	Vine
<i>Reynoutria japonica</i>	Japanese knotweed	Herb
<i>Rosa multiflora</i>	Multiflora rose ^b	Vine/shrub
<i>Rubus phoenicolasius</i>	Rubus	Vine/shrub
<i>Sorghum halepense</i>	Johnson grass ^b	Grass
<i>Urtica dioica</i>	Stinging European nettle	Herb

Table 1

Non-native Invasive Plant Species With Potential to Occur Along the Project Route.

Scientific Name	Common Name	Growth Form
Virginia Species - Medium Rank Category^a		
<i>Acer platanoides</i>	Norway maple	Tree
<i>Agrostis capillaris</i>	Colonial bent grass	Grass
<i>Akebia quinata</i>	Five leaf Akebia	Vine
<i>Albizia julibrissin</i>	Mimosa ^b	Tree
<i>Arthraxon hispidus</i> var. <i>hispidus</i>	Joint head grass ^b	Grass
<i>Berberis thunbergii</i>	Japanese barberry	Shrub
<i>Cirsium vulgare</i>	Bull thistle ^b	Herb
<i>Dipsacus fullonum</i>	Wild teasel	Herb
<i>Egeria densa</i>	Brazilian waterweed	Herb, aquatic
<i>Euonymus fortunei</i>	Winter creeper	Vine
<i>Glechoma hederacea</i>	Gill-over-the-ground	Vine
<i>Hedera helix</i>	English ivy ^b	Vine
<i>Holcus lanatus</i>	Common velvet grass	Grass
<i>Ligustrum obtusifolium</i> var. <i>obtusifolium</i>	Border privet ^b	Shrub
<i>Lonicera tatarica</i>	Tartarian honeysuckle	Shrub
<i>Lysimachia nummularia</i>	Moneywort ^b	Herb
<i>Miscanthus sinensis</i>	Chinese silvergrass	Grass
<i>Najas minor</i>	Brittle naiad	Herb
<i>Paulownia tomentosa</i>	Royal paulowina ^b	Tree
<i>Persicaria longiseta</i>	Long-bristled smartweed ^b	Herb
<i>Phyllostachys aurea</i>	Golden bamboo	Grass
<i>Poa compressa</i>	Flat-stemmed bluegrass	Grass
<i>Poa trivialis</i>	Rough bluegrass	Grass
<i>Pyrus calleryana</i>	Callery pear ^b	Tree
<i>Rhodotypos scandens</i>	Jetbead	Shrub
<i>Rumex acetosella</i>	Sheep sorrel ^b	Herb
<i>Spiraea japonica</i>	Japanese spiraea	Herb
<i>Stellaria media</i>	Common chickweed	Herb
<i>Veronica hederifolia</i>	Ivy-leaved speedwell	Herb
<i>Viburnum dilatatum</i>	Linden arrow wood ^b	Shrub
<i>Wisteria sinensis</i>	Chinese wisteria ^b	Vine
North Carolina - Severe Threat Ranking^a		
<i>Ailanthus altissima</i>	Tree of Heaven ^b	Tree
<i>Albizia julibrissin</i>	Mimosa ^b	Tree
<i>Alliaria petiolata</i>	Garlic mustard ^b	Herb
<i>Celastrus orbiculatus</i>	Asian bittersweet ^b	Vine
<i>Elaeagnus umbellata</i>	Autumn olive ^b	Tree
<i>Hedera helix</i>	English ivy ^b	Vine
<i>Hydrilla verticillata</i>	Hydrilla	Herb, aquatic
<i>Lespedeza bicolor</i>	Bicolor lespedeza	Shrub
<i>Lespedeza cuneata</i>	Sericea lespedeza ^b	Herb
<i>Ligustrum sinense</i>	Chinese privet ^b	Shrub
<i>Lonicera fragrantissima</i>	Fragrant honeysuckle ^b	Vine
<i>Lonicera japonica</i>	Japanese honeysuckle ^b	Vine
<i>Microstegium vimineum</i>	Japanese stilt grass ^b	Grass
<i>Murdannia keisak</i>	Asian spiderwort ^b	Herb

Table 1		
Non-native Invasive Plant Species With Potential to Occur Along the Project Route.		
Scientific Name	Common Name	Growth Form
<i>Myriophyllum aquaticum</i>	Parrotfeather	Herb, aquatic
<i>Paulownia tomentosa</i>	Princess tree ^b	Tree
<i>Persicaria perfoliata</i> (<i>Polygonum perfoliatum</i> L.)	Mile-a-minute vine	Vine
<i>Phragmites australis</i> (Cav.) Trin. ssp. <i>australis</i>	Common reed	Grass, aquatic
<i>Pyrus calleryana</i>	Bradford pear ^b	Tree
<i>Reynoutria japonica</i> (<i>Polygonum cuspidatum</i>)	Japanese knotweed	Herb
<i>Pueraria montana</i>	Kudzu ^b	Vine
<i>Rosa multiflora</i>	Multiflora rose ^b	Vine/shrub
<i>Wisteria sinensis</i>	Chinese wisteria ^b	Vine
<p>^a In Virginia, Invasiveness ranks reflect the level of threat to forests and other natural communities and native species. Ranks used on the list are high, medium, and low. High Species pose a significant threat, Medium Species pose a moderate threat. In North Carolina, Rank 1 – Severe Threat plants are exotic plant species that have invasive characteristics and spread readily into native plant communities, displacing native vegetation.</p> <p>^b Species observed during survey.</p> <p>Sources: The Project used the Virginia Invasive Plant Species List and the North Carolina Invasive Plant Council List (Virginia Invasive Species Working Group, 2012; VDCR-DNH, 2018; and North Carolina Invasive Plant Council, 2016).</p>		

Crews recorded observations of exotic and invasive species concurrent with other field surveys. To ensure adequate survey coverage, the Project right-of-way was divided into 1,000-foot long blocks and where survey permission was granted, at least one observation of exotic and invasive species was made within each block and along each access road.

Limited weed-free areas were identified in the Project. Two or more adjacent blocks that lacked exotic and invasive species were considered weed-free; single isolated weed-free blocks surrounded by blocks with exotic and invasive species were not considered weed-free. Table 2 lists weed-free areas.

Exotic and invasive species were observed throughout the Project in both states. In Virginia, observations were completed in 133 blocks and partially completed in 27 blocks out of a total 193 blocks. At least one exotic or invasive species was present in 99% of surveyed and partially surveyed blocks (n=158). From blocks with exotic and invasive species, the most commonly observed species included: Japanese honeysuckle (87%); Chinese lespedeza (84%), Japanese stilt-grass (67%); Chinese privet (41%); tree of heaven (35%); multiflora rose (30%); spotted knapweed (27%); and Johnson grass (25%).

In North Carolina, observations were completed in 214 blocks and partially completed in 52 blocks out of a total 338 blocks. At least one exotic or invasive species was present in 80% of surveyed and partially surveyed blocks (n=266). From blocks with exotic and invasive species, the most commonly observed species includes: Japanese honeysuckle (54%); Japanese stilt-grass (54%); multiflora rose (34%); Chinese privet (25%), and tree of heaven (20%).

Table 1		
Areas Lacking Invasive Species		
County/State	Station Start	Station End
Rockingham, NC	31.2 ^a	31.40 ^a
Rockingham, NC	37.30	37.48 ^a
Rockingham, NC	43.70 ^a	43.90 ^a
Rockingham, NC	47.48 ^a	47.67
Alamance, NC	64.00 ^a	67.50 ^b
^a Weed-free block is adjacent unsurveyed block; status as weed-free could be revised pending survey of adjacent blocks.		
^b Area associated with re-route, surveys pending		

Prior to construction, unsurveyed and partially surveyed blocks will be assessed for presence of exotic and invasive species, and Table 2 will be updated to reflect applicable changes.

Potential Invasive Plant Species Introduction Associated with Pipeline Construction

Excavation for pipeline placement exposes the topsoil surface to potential entrance of exotic, noxious, and/or invasive plant species. This can occur either by physical transport onto the exposed soil site by way of equipment, machinery, or vehicles, through windborne dissemination of seeds of exotic or invasive species from the surrounding area, or by introduction of seeds or plant parts contained in mulch or straw bales.

To avoid and minimize potential for introduction of these seeds to the Project corridor, the Project will apply three management strategies to control exotic, noxious, and invasive plant species, including: avoidance of exotic and invasive species found in organic materials brought onsite; monitoring and selective treatment of exotic or invasive species encountered during or following construction; and using seed mixes that include native species whenever possible.

1. Introduction of invasive species from organic materials brought onsite will be avoided during construction, temporary stabilization, and final reclamation through use of weed-free mulch, including straw, hay, wood fiber hydromulch, erosion control fabric, or a functional equivalent.
2. The Project will monitor the ROW during and post-construction to allow for early detection of exotic or invasive species infestations or outbreaks. If species or colonies of exotic or invasive species are found in numbers substantially greater than those existing nearby in off-ROW locations, the Project will conduct selective spot eradication of those species. Eradication measures could include hand cutting unless requested by a state or federal management agency to use herbicides to achieve effective removal of these species. Herbicide types will be determined based on the species requiring control, and all herbicides will be applied by applicators appropriately licensed or certified by the state where the work is conducted.
3. Seed mixes used during restoration will include native species within the seed mix. The Project will implement the restoration measures contained in the FERC *Upland Erosion Control, Revegetation and Maintenance Plan* ("FERC Plan") and *Wetland and Waterbody Construction and Mitigation Procedures* ("FERC Procedures"). In accordance with the FERC Plan, the Project will monitor all areas disturbed by Project construction to determine the post-construction revegetative

success for a minimum of two growing seasons following construction, or until revegetation is successful.

In addition to the three strategies described above, the following control measures will be used to further minimize introduction and/or spread of these species:

- Adhere to erosion control measures in the FERC Plan and Procedures to ensure that sediment movement and associated movement of non-native seeds into newly disturbed soils is minimized.
- Prior to mobilization into the Project area, contractors thoroughly clean all construction equipment to limit potential for spread of noxious weeds, insects, or other soil-borne pests.
- During construction, the environmental inspector (EI) will ensure all contractors clean the tracks, tires, and blades of equipment by hand or compressed air to remove any excess soil prior to movement of equipment out of known weed or soil-borne pest infested areas.
- Use construction techniques along the pipeline route that minimize the duration of bare soil exposure thus, minimizing the opportunity for exotic species to become established.
- In areas along the pipeline identified as containing exotic and invasive species, the topsoil from the full width of the construction ROW is stripped and stored separately from other, less contaminated topsoil and subsoil. Where topsoil segregation is required, identify the topsoil layer as outlined in the FERC Plan. EIs will identify and mark these areas prior to grading activities.
- Reseed all disturbed areas promptly after final grading, weather and soil conditions permitting, and in consideration of written recommendations from the local soil conservation authorities. Prompt reseeding ensures bare soil is not available for recruitment of exotic or invasive species. Seeding is not required in active agriculture lands unless requested by the landowner.
- As described in the FERC Plan, apply mulch (consisting of weed-free straw or hay or other erosion-control materials) if final grading and installation of permanent erosion control measures are not completed within 20 days after the trench is backfilled or seeding cannot be completed properly due to scheduling outside of recommended seeding dates.
- Do not move mowing and maintenance equipment from an area where invasive species have been encountered during operation of the Project unless the equipment is cleaned prior to moving.

At Project mobilization, contractors shall thoroughly clean all construction equipment prior to initial arrival at contractor yards and staging areas. This includes all equipment traveling along ROWs. Equipment includes all earth-moving vehicles, mechanized felling equipment, spreaders, track hoes, timber mats, straps, and any other heavy equipment capable of carrying mud and debris. Cleaning of tracks, heavy equipment tires, and blades is recommended. Cleaning shall remove excess soil and material. Upon arrival of equipment onsite, inspections are completed by the Contractor and an EI to verify equipment is free of soil and debris when it arrives onsite.

In addition to thorough cleaning prior to entering each spread, terrestrial equipment must be cleaned through the use of hand tools and/or pressurized air prior to entering areas lacking invasive species populations (Table 2). Information in Table 2 may be revised to include additional areas.

The EI will maintain a log documenting inspections of all equipment. Visual markers with date and time noted will be used to identify cleaned and inspected equipment. General requirements for equipment

cleaning while on Project are summarized in Table 3.

Table 2	
Requirements of Equipment Cleaning	
Item	Terrestrial Equipment Cleaning
Approved Equipment	Hand tools, high pressure air.
Inspection	Completed by Contractor and EI
Frequency	Prior to entering a new Spread; and prior to entering areas lacking invasive species, identified in Table 2.

References

- North Carolina Invasive Plant Council. 2016. Available online at: www.nc-ipc.weebly.com Accessed on July 16, 2018.
- USDA (United States Department of Agriculture). 2015. Natural Resources Conservation Service. Invasive and Noxious Weeds. <http://plants.usda.gov/java/noxiousDriver>. Accessed October 6, 2015. VDCR-DNH (Virginia Department of Conservation and Recreation, Division of Natural Heritage). 2018.
- Virginia Invasive Plant Species List. Available online at: http://www.dcr.virginia.gov/natural_heritage/invspdflist.shtml. Accessed September 25, 2018.
- Virginia Invasive Species Working Group. 2012. Natural Heritage Technical Document 12-13. Richmond, VA. 55 pages.

Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Wednesday, February 20, 2019 4:17 PM
To: laura.robinson@ncdcr.gov
Cc: misty.buchanan@ncdcr.gov; alex.miller@nexteraenergy.com; Stephanie Frazier
Subject: MVP Southgate Project Update
Attachments: Public_RR03_Appendix 3-B_MVP Southgate Project_FERC Supplement-01-23-19.pdf

Hi Laura,

I am reaching out to you regarding the Southgate Project. Last year our consultant on the project (Stephanie Frazier, ESI) spoke to Misty and she recommended contacting you regarding plant species. My specific questions are:

1. The Southgate Project filed our formal Application on November 6, 2018 requesting certification of public convenience and necessity from the Federal Energy Regulatory Commission. We continue to update our company [webpage](#) throughout the process with pertinent FERC filings. The entire Application can be found on our docket (CP19-14-000) in the FERC's eLibrary. Have you had time to review, specifically Resource Report 3 to confirm whether you agree with the Project's approach to minimizing impacts on Cliff Stonecrop?
2. The attached Exotic and Invasive Plant Species Control Plan was filed with FERC on January 24. Do you have any comments, or can you provide approval of the Plan?

Please feel free to contact me to discuss.

Thank you,
Megan

Megan Stahl
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MVP Southgate Project

Exotic and Invasive Plant Species Control Plan

January 2019

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Table 1		
Non-native Invasive Plant Species With Potential to Occur Along the Project Route.		
Scientific Name	Common Name	Growth Form
Virginia Species - High Rank Category^a		
<i>Ailanthus altissima</i>	Tree of Heaven ^b	Tree
<i>Alliaria petiolata</i>	Garlic mustard ^b	Herb
<i>Ampelopsis brevipedunculata</i>	Porcelain berry ^b	Shrub
<i>Celastrus orbiculatu</i>	Oriental bittersweet ^b	Vine
<i>Centaurea stoebe</i> ssp. <i>Micranthos</i>	Spotted knapweed ^b	Herb
<i>Cirsium arvense</i>	Canada thistle	Herb
<i>Dioscorea polystachya</i>	Cinnamon vine	Vine
<i>Elaeagnus umbellata</i>	Autumn olive ^b	Tree
<i>Euonymus alatus</i>	Winged euonymus	Shrub
<i>Ficaria verna</i>	Lesser celandine	Herb
<i>Hydrilla verticillata</i>	Hydrilla	Herb, aquatic
<i>Iris pseudacorus</i>	Yellow flag	Herb
<i>Lespedeza cuneata</i>	Chinese lespedeza ^b	Herb
<i>Ligustrum sinense</i>	Chinese privet ^b	Shrub
<i>Lonicera japonica</i>	Japanese honeysuckle ^b	Vine
<i>Lonicera maackii</i>	Amur honeysuckle ^b	Shrub
<i>Lonicera morrowii</i>	Morrow's honeysuckle	Shrub
<i>Lythrum salicaria</i>	Purple loosestrife	Herb
<i>Microstegium vimineum</i>	Japanese stiltgrass ^b	Grass
<i>Murdannia keisak</i>	Marsh dewflower ^b	Herb
<i>Myriophyllum aquaticum</i>	Parrot feather	Herb, aquatic
<i>Myriophyllum spicatum</i>	Eurasian milfoil	Herb, aquatic
<i>Persicaria perfoliate</i>	Mile a minute ^b	Vine
<i>Phragmites australis</i> ssp. <i>australis</i>	Common reed	Herb, aquatic
<i>Pueraria montana</i> var. <i>lobata</i>	Kudzu ^b	Vine
<i>Reynoutria japonica</i>	Japanese knotweed	Herb
<i>Rosa multiflora</i>	Multiflora rose ^b	Vine/shrub
<i>Rubus phoenicolasius</i>	Rubus	Vine/shrub
<i>Sorghum halepense</i>	Johnson grass ^b	Grass
<i>Urtica dioica</i>	Stinging European nettle	Herb

Table 1

Non-native Invasive Plant Species With Potential to Occur Along the Project Route.

Scientific Name	Common Name	Growth Form
Virginia Species - Medium Rank Category^a		
<i>Acer platanoides</i>	Norway maple	Tree
<i>Agrostis capillaris</i>	Colonial bent grass	Grass
<i>Akebia quinata</i>	Five leaf Akebia	Vine
<i>Albizia julibrissin</i>	Mimosa ^b	Tree
<i>Arthraxon hispidus</i> var. <i>hispidus</i>	Joint head grass ^b	Grass
<i>Berberis thunbergii</i>	Japanese barberry	Shrub
<i>Cirsium vulgare</i>	Bull thistle ^b	Herb
<i>Dipsacus fullonum</i>	Wild teasel	Herb
<i>Egeria densa</i>	Brazilian waterweed	Herb, aquatic
<i>Euonymus fortunei</i>	Winter creeper	Vine
<i>Glechoma hederacea</i>	Gill-over-the-ground	Vine
<i>Hedera helix</i>	English ivy ^b	Vine
<i>Holcus lanatus</i>	Common velvet grass	Grass
<i>Ligustrum obtusifolium</i> var. <i>obtusifolium</i>	Border privet ^b	Shrub
<i>Lonicera tatarica</i>	Tartarian honeysuckle	Shrub
<i>Lysimachia nummularia</i>	Moneywort ^b	Herb
<i>Miscanthus sinensis</i>	Chinese silvergrass	Grass
<i>Najas minor</i>	Brittle naiad	Herb
<i>Paulownia tomentosa</i>	Royal paulowina ^b	Tree
<i>Persicaria longiseta</i>	Long-bristled smartweed ^b	Herb
<i>Phyllostachys aurea</i>	Golden bamboo	Grass
<i>Poa compressa</i>	Flat-stemmed bluegrass	Grass
<i>Poa trivialis</i>	Rough bluegrass	Grass
<i>Pyrus calleryana</i>	Callery pear ^b	Tree
<i>Rhodotypos scandens</i>	Jetbead	Shrub
<i>Rumex acetosella</i>	Sheep sorrel ^b	Herb
<i>Spiraea japonica</i>	Japanese spiraea	Herb
<i>Stellaria media</i>	Common chickweed	Herb
<i>Veronica hederifolia</i>	Ivy-leaved speedwell	Herb
<i>Viburnum dilatatum</i>	Linden arrow wood ^b	Shrub
<i>Wisteria sinensis</i>	Chinese wisteria ^b	Vine
North Carolina - Severe Threat Ranking^a		
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<i>Albizia julibrissin</i>	Mimosa ^b	Tree
<i>Alliaria petiolata</i>	Garlic mustard ^b	Herb
<i>Celastrus orbiculatus</i>	Asian bittersweet ^b	Vine
<i>Elaeagnus umbellata</i>	Autumn olive ^b	Tree
<i>Hedera helix</i>	English ivy ^b	Vine
<i>Hydrilla verticillata</i>	Hydrilla	Herb, aquatic
<i>Lespedeza bicolor</i>	Bicolor lespedeza	Shrub
<i>Lespedeza cuneata</i>	Sericea lespedeza ^b	Herb
<i>Ligustrum sinense</i>	Chinese privet ^b	Shrub
<i>Lonicera fragrantissima</i>	Fragrant honeysuckle ^b	Vine
<i>Lonicera japonica</i>	Japanese honeysuckle ^b	Vine
<i>Microstegium vimineum</i>	Japanese stilt grass ^b	Grass
<i>Murdannia keisak</i>	Asian spiderwort ^b	Herb

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Non-native Invasive Plant Species With Potential to Occur Along the Project Route.		
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<i>Paulownia tomentosa</i>	Princess tree ^b	Tree
<i>Persicaria perfoliata</i> (<i>Polygonum perfoliatum</i> L.)	Mile-a-minute vine	Vine
<i>Phragmites australis</i> (Cav.) Trin. ssp. <i>australis</i>	Common reed	Grass, aquatic
<i>Pyrus calleryana</i>	Bradford pear ^b	Tree
<i>Reynoutria japonica</i> (<i>Polygonum cuspidatum</i>)	Japanese knotweed	Herb
<i>Pueraria montana</i>	Kudzu ^b	Vine
<i>Rosa multiflora</i>	Multiflora rose ^b	Vine/shrub
<i>Wisteria sinensis</i>	Chinese wisteria ^b	Vine
<p>^a In Virginia, Invasiveness ranks reflect the level of threat to forests and other natural communities and native species. Ranks used on the list are high, medium, and low. High Species pose a significant threat, Medium Species pose a moderate threat. In North Carolina, Rank 1 – Severe Threat plants are exotic plant species that have invasive characteristics and spread readily into native plant communities, displacing native vegetation.</p> <p>^b Species observed during survey.</p> <p>Sources: The Project used the Virginia Invasive Plant Species List and the North Carolina Invasive Plant Council List (Virginia Invasive Species Working Group, 2012; VDCR-DNH, 2018; and North Carolina Invasive Plant Council, 2016).</p>		

Crews recorded observations of exotic and invasive species concurrent with other field surveys. To ensure adequate survey coverage, the Project right-of-way was divided into 1,000-foot long blocks and where survey permission was granted, at least one observation of exotic and invasive species was made within each block and along each access road.

Limited weed-free areas were identified in the Project. Two or more adjacent blocks that lacked exotic and invasive species were considered weed-free; single isolated weed-free blocks surrounded by blocks with exotic and invasive species were not considered weed-free. Table 2 lists weed-free areas.

Exotic and invasive species were observed throughout the Project in both states. In Virginia, observations were completed in 133 blocks and partially completed in 27 blocks out of a total 193 blocks. At least one exotic or invasive species was present in 99% of surveyed and partially surveyed blocks (n=158). From blocks with exotic and invasive species, the most commonly observed species included: Japanese honeysuckle (87%); Chinese lespedeza (84%), Japanese stilt-grass (67%); Chinese privet (41%); tree of heaven (35%); multiflora rose (30%); spotted knapweed (27%); and Johnson grass (25%).

In North Carolina, observations were completed in 214 blocks and partially completed in 52 blocks out of a total 338 blocks. At least one exotic or invasive species was present in 80% of surveyed and partially surveyed blocks (n=266). From blocks with exotic and invasive species, the most commonly observed species includes: Japanese honeysuckle (54%); Japanese stilt-grass (54%); multiflora rose (34%); Chinese privet (25%), and tree of heaven (20%).

Table 1		
Areas Lacking Invasive Species		
County/State	Station Start	Station End
Rockingham, NC	31.2 ^a	31.40 ^a
Rockingham, NC	37.30	37.48 ^a
Rockingham, NC	43.70 ^a	43.90 ^a
Rockingham, NC	47.48 ^a	47.67
Alamance, NC	64.00 ^a	67.50 ^b
^a Weed-free block is adjacent unsurveyed block; status as weed-free could be revised pending survey of adjacent blocks.		
^b Area associated with re-route, surveys pending		

Prior to construction, unsurveyed and partially surveyed blocks will be assessed for presence of exotic and invasive species, and Table 2 will be updated to reflect applicable changes.

Potential Invasive Plant Species Introduction Associated with Pipeline Construction

Excavation for pipeline placement exposes the topsoil surface to potential entrance of exotic, noxious, and/or invasive plant species. This can occur either by physical transport onto the exposed soil site by way of equipment, machinery, or vehicles, through windborne dissemination of seeds of exotic or invasive species from the surrounding area, or by introduction of seeds or plant parts contained in mulch or straw bales.

To avoid and minimize potential for introduction of these seeds to the Project corridor, the Project will apply three management strategies to control exotic, noxious, and invasive plant species, including: avoidance of exotic and invasive species found in organic materials brought onsite; monitoring and selective treatment of exotic or invasive species encountered during or following construction; and using seed mixes that include native species whenever possible.

1. Introduction of invasive species from organic materials brought onsite will be avoided during construction, temporary stabilization, and final reclamation through use of weed-free mulch, including straw, hay, wood fiber hydromulch, erosion control fabric, or a functional equivalent.
2. The Project will monitor the ROW during and post-construction to allow for early detection of exotic or invasive species infestations or outbreaks. If species or colonies of exotic or invasive species are found in numbers substantially greater than those existing nearby in off-ROW locations, the Project will conduct selective spot eradication of those species. Eradication measures could include hand cutting unless requested by a state or federal management agency to use herbicides to achieve effective removal of these species. Herbicide types will be determined based on the species requiring control, and all herbicides will be applied by applicators appropriately licensed or certified by the state where the work is conducted.
3. Seed mixes used during restoration will include native species within the seed mix. The Project will implement the restoration measures contained in the FERC *Upland Erosion Control, Revegetation and Maintenance Plan* ("FERC Plan") and *Wetland and Waterbody Construction and Mitigation Procedures* ("FERC Procedures"). In accordance with the FERC Plan, the Project will monitor all areas disturbed by Project construction to determine the post-construction revegetative

success for a minimum of two growing seasons following construction, or until revegetation is successful.

In addition to the three strategies described above, the following control measures will be used to further minimize introduction and/or spread of these species:

- Adhere to erosion control measures in the FERC Plan and Procedures to ensure that sediment movement and associated movement of non-native seeds into newly disturbed soils is minimized.
- Prior to mobilization into the Project area, contractors thoroughly clean all construction equipment to limit potential for spread of noxious weeds, insects, or other soil-borne pests.
- During construction, the environmental inspector (EI) will ensure all contractors clean the tracks, tires, and blades of equipment by hand or compressed air to remove any excess soil prior to movement of equipment out of known weed or soil-borne pest infested areas.
- Use construction techniques along the pipeline route that minimize the duration of bare soil exposure thus, minimizing the opportunity for exotic species to become established.
- In areas along the pipeline identified as containing exotic and invasive species, the topsoil from the full width of the construction ROW is stripped and stored separately from other, less contaminated topsoil and subsoil. Where topsoil segregation is required, identify the topsoil layer as outlined in the FERC Plan. EIs will identify and mark these areas prior to grading activities.
- Reseed all disturbed areas promptly after final grading, weather and soil conditions permitting, and in consideration of written recommendations from the local soil conservation authorities. Prompt reseeding ensures bare soil is not available for recruitment of exotic or invasive species. Seeding is not required in active agriculture lands unless requested by the landowner.
- As described in the FERC Plan, apply mulch (consisting of weed-free straw or hay or other erosion-control materials) if final grading and installation of permanent erosion control measures are not completed within 20 days after the trench is backfilled or seeding cannot be completed properly due to scheduling outside of recommended seeding dates.
- Do not move mowing and maintenance equipment from an area where invasive species have been encountered during operation of the Project unless the equipment is cleaned prior to moving.

At Project mobilization, contractors shall thoroughly clean all construction equipment prior to initial arrival at contractor yards and staging areas. This includes all equipment traveling along ROWs. Equipment includes all earth-moving vehicles, mechanized felling equipment, spreaders, track hoes, timber mats, straps, and any other heavy equipment capable of carrying mud and debris. Cleaning of tracks, heavy equipment tires, and blades is recommended. Cleaning shall remove excess soil and material. Upon arrival of equipment onsite, inspections are completed by the Contractor and an EI to verify equipment is free of soil and debris when it arrives onsite.

In addition to thorough cleaning prior to entering each spread, terrestrial equipment must be cleaned through the use of hand tools and/or pressurized air prior to entering areas lacking invasive species populations (Table 2). Information in Table 2 may be revised to include additional areas.

The EI will maintain a log documenting inspections of all equipment. Visual markers with date and time noted will be used to identify cleaned and inspected equipment. General requirements for equipment

cleaning while on Project are summarized in Table 3.

Table 2	
Requirements of Equipment Cleaning	
Item	Terrestrial Equipment Cleaning
Approved Equipment	Hand tools, high pressure air.
Inspection	Completed by Contractor and EI
Frequency	Prior to entering a new Spread; and prior to entering areas lacking invasive species, identified in Table 2.

References

- North Carolina Invasive Plant Council. 2016. Available online at: www.nc-ipc.weebly.com Accessed on July 16, 2018.
- USDA (United States Department of Agriculture). 2015. Natural Resources Conservation Service. Invasive and Noxious Weeds. <http://plants.usda.gov/java/noxiousDriver>. Accessed October 6, 2015. VDCR-DNH (Virginia Department of Conservation and Recreation, Division of Natural Heritage). 2018.
- Virginia Invasive Plant Species List. Available online at: http://www.dcr.virginia.gov/natural_heritage/invspdflist.shtml. Accessed September 25, 2018.
- Virginia Invasive Species Working Group. 2012. Natural Heritage Technical Document 12-13. Richmond, VA. 55 pages.

Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Sunday, March 03, 2019 11:24 AM
To: Stephanie Frazier
Cc: alex.miller@nexteraenergy.com
Subject: 2/20 Phone Memo - VDGIF

On February 20, 2019 I spoke to Ernie Aschenbach (VDGIF) about whether VDGIF plans to issue comments on the Project related to mussels or whether we should proceed with submitting the study plan that we have prepared based on Ernie's verbal recommendations. Ernie said to submit the mussel study plan that we have prepared to Brian Watson and himself and VDGIF will comment on the plan. I asked Ernie whether he could provide information related to FERC's comment on the tri-colored bat conservation property. Ernie suggested sending a map showing the location of the property in relation to the Project to Rick Reynolds and himself and then they can provide feedback. Otherwise he said that Rick was happy with the bat surveys conducted by the Project and he had no questions or comments on the survey results. I mentioned to Ernie that I would be sending him the Exotic and Invasive Plant Species Control Plan for VDGIF review and comment. Ernie mentioned that he plans to send summary comments by fauna to FERC and asked whether there is a specific deadline for doing so. I told him I would check into that and get back to him.

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587
mstahl@equitransmidstream.com
**Please note my new email address*



Stephanie Frazier

From: Hypes, Rene' <rene.hypes@dcr.virginia.gov>
Sent: Thursday, February 21, 2019 2:19 PM
To: Stahl, Megan D.
Cc: Bulluck, Jason; Weber Joseph xpg48711; Miller, Alex; Stephanie Frazier
Subject: Re: MVP Southgate Project Update

Megan,

I have some follow-up questions in regards to your request.

In looking at the documents posted on the link (<http://www.mypsouthgate.com/news-info/>) provided in a previous email for Resource Report 3 (11-2-2018), the document posted for both Resource Report 3 and Resource Report 3A is the same, Resource Report 3A. The Resource Report 3A provides survey methods for rare plants (Smooth Coneflower and Small whorled pogonia in NC), bats in VA and NC, and freshwater mussels in NC but does not reference surveys for freshwater mussels in the Bainster River in VA and/or VA state rare Piedmont plant species (American bluehearts, downy phlox, and Piedmont Barbara's-button). Is there an update to Resource Report 3 available that you could send to us for review?

Resource Report 3-Fish, Wildlife and Vegetation -Appendix 3-B

The January 2019 Exotic and Invasive Plant Species Control Plan includes a reference to seed mixes (*3. Seed mixes used during restoration will include native species within the seed mix*). Are these seed mixes available for review?

Thank you.

Rene'

On Wed, Feb 20, 2019 at 3:58 PM Stahl, Megan D. <MStahl@equitransmidstream.com> wrote:

Hi Rene',

As I mentioned in my voicemail, I am reaching out to check in on the Southgate project. Specifically:

1. Have you had time to review Resource Report 3 (link below) to confirm whether you agree with the Project's approach to minimizing impacts on American bluehearts, downy phlox, and Piedmont Barbara's-button?
2. The attached Exotic and Invasive Plant Species Control Plan was filed with FERC on January 24. Do you have any comments, or can you provide approval of the Plan?

Please feel free to call to discuss (note that my contact information below has changed).

Thank you,

Megan

Megan Stahl

Manager Environmental

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Canonsburg, PA 15317

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mstahl@equitransmidstream.com

**Please note my new email address*



From: Stahl, Megan D.

Sent: Tuesday, November 06, 2018 5:09 PM

To: John_Ellis@fws.gov; Troy Andersen <troy_andersen@fws.gov>; 'Stancil, Vann F' <vann.stancil@ncwildlife.org>; 'Ernst Aschenbach' <ernie.aschenbach@dgif.virginia.gov>; 'rr ProjectReview (DGIF)' <projectreview@dgif.virginia.gov>; 'Hypes, Rene' <rene.hypes@dcr.virginia.gov>; 'Bulluck, Jason' <jason.bulluck@dcr.virginia.gov>; Weber Joseph xpg48711 <joseph.weber@dcr.virginia.gov>

Cc: Miller, Alex <Alex.Miller@nexteraenergy.com>; Stephanie Frazier <SFrazier@envsi.com>

Subject: MVP Southgate Project Update

Good evening,

On behalf of the MVP Southgate project team, I am reaching out to notify you that we filed our formal Application today requesting certification of public convenience and necessity from the Federal Energy Regulatory Commission. We will continue to update our company [webpage](#) throughout the process with pertinent FERC filings. The entire Application can be found on our docket (CP19-14-000) in the FERC's eLibrary.

Attached you will find the public news release and an updated kmz file of the MVP Southgate Project workspace that was used for the Application. MVP Southgate will continue to update stakeholders throughout the FERC process. Please feel free to reach out to me with any questions or concerns.

Please also feel free to forward this email to others within your agency that would be interested in this information.

Thank you,

Megan

Megan Stahl

Permitting Supervisor

625 Liberty Avenue, Suite 1700

Pittsburgh, PA 15222

T 412-553-7783

C 412-737-2587



www.eqt.com

--

S. Rene' Hypes

Project Review Coordinator

Department of Conservation and Recreation

Division of Natural Heritage

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Richmond, Virginia 23219

[804-371-2708](tel:8043712708) (phone)

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rene.hypes@dcr.virginia.gov

Conserving VA's Biodiversity through Inventory, Protection and Stewardship

<http://www.dcr.virginia.gov/natural-heritage>

Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Monday, February 25, 2019 6:55 PM
To: Robinson, Laura
Cc: Buchanan, Misty; alex.miller@nexteraenergy.com; Stephanie Frazier
Subject: RE: [External] MVP Southgate Project Update

Hi Laura,

Thank you for your email. Cliff stonecrop is mentioned in:

Section 3.4.2.4 (page 3-24):

*Based on initial consultation with NCNHP, there are also records of one state-listed rare plant species, cliff stonecrop (*Sedum glaucophyllum*), near the Project area (Agency Consultations [see Resource Report 1, Appendix 1-K]). No surveys for cliff stonecrop have been requested and therefore, are not planned. Any potential impacts to cliff stonecrop will be avoided by implementing the FERC Plan and Procedures as well as the Exotic and Invasive Species Control Plan provided in Appendix 3-B.*

Table 3.4-3:

Cliff Stonecrop	Rockingham, NC	NCNHP	Habitat assessment and consultation ongoing to determine survey effort.	No survey requested or planned. Potential impacts will be avoided by implementing Plan & Procedures and Invasive Species Plan.
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The reference to the Plan & Procedures above is hyperlinked, and I provided a copy of the Exotic and Invasive Plant Species Control Plan to your attention already, but please let me know if you need me to send it again.

Please feel free to reach out to me if you need additional information. I look forward to hearing your feedback.

Megan

From: Robinson, Laura <Laura.Robinson@ncdcr.gov>
Sent: Friday, February 22, 2019 4:36 PM
To: Stahl, Megan D. <MStahl@equitransmidstream.com>
Cc: Buchanan, Misty <misty.buchanan@ncdcr.gov>; alex.miller@nexteraenergy.com; Stephanie Frazier <SFrazier@envsi.com>
Subject: RE: [External] MVP Southgate Project Update

Hi Megan,

Thanks for allowing us to provide comments. I'm having trouble finding the information in all the attachments about Cliff Stonecrop. I assume this is referencing *Sedum glaucophyllum* (state Significantly Rare). Can you point me to specifically where I can find the information about the impacts to this species?

Thank you,

LAURA ROBINSON

Botanist, Natural Heritage Program
Division of Land and Water Stewardship

121 W. Jones St, MSC 1651 Raleigh, NC 27699-1651
919 707 8647 office

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

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From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Wednesday, February 20, 2019 4:17 PM
To: Robinson, Laura <Laura.Robinson@ncdcr.gov>
Cc: Buchanan, Misty <misty.buchanan@ncdcr.gov>; alex.miller@nexteraenergy.com; Stephanie Frazier <SFrazier@envsi.com>
Subject: [External] MVP Southgate Project Update

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to report.spam@nc.gov

Hi Laura,

I am reaching out to you regarding the Southgate Project. Last year our consultant on the project (Stephanie Frazier, ESI) spoke to Misty and she recommended contacting you regarding plant species. My specific questions are:

1. The Southgate Project filed our formal Application on November 6, 2018 requesting certification of public convenience and necessity from the Federal Energy Regulatory Commission. We continue to update our company [webpage](#) throughout the process with pertinent FERC filings. The entire Application can be found on our docket (CP19-14-000) in the FERC's eLibrary. Have you had time to review, specifically Resource Report 3 to confirm whether you agree with the Project's approach to minimizing impacts on Cliff Stonecrop?
2. The attached Exotic and Invasive Plant Species Control Plan was filed with FERC on January 24. Do you have any comments, or can you provide approval of the Plan?

Please feel free to contact me to discuss.

Thank you,
Megan

Megan Stahl
Manager Environmental
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T 412-553-7783
C 412-737-2587

mstahl@equitransmidstream.com

****Please note my new email address***



Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Monday, February 25, 2019 6:25 PM
To: John_Ellis@fws.gov; Stancil, Vann F
Cc: alex.miller@nexteraenergy.com; Stephanie Frazier
Subject: Southgate NC Mussel Study Plan
Attachments: 1219_Southgate 2019 NC Mussels Study Plan_20190222.pdf

John and Vann,

By now hopefully you received a hard copy of the attached NC mussel study plan for the Southgate project. I am writing to provide a digital copy as well (attached). Please forward this to anyone else in your office that would like to review.

Please feel free to call to discuss, or provide comments by email. I look forward to hearing from you.

Megan

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587

mstahl@equitransmidstream.com

**Please note my new email address*



STUDY PLAN:

FRESHWATER MUSSEL (UNIONIDAE)
HABITAT ASSESSMENTS AND SURVEYS
ALONG THE PROPOSED MVP SOUTHGATE PROJECT
IN NORTH CAROLINA

February 22, 2019

Submitted to:

Mr. John Ellis
U.S. Fish & Wildlife Service
Raleigh Field Office
551F Pylon Drive
Raleigh, NC 27606

Mr. Vann Stancil
North Carolina
Wildlife Resource Commission
1701 Mail Service Center
Raleigh, NC 27699

Prepared for:



Prepared by:



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- Appendix D: Scientific Collection Permits

1.0 Introduction

1.1 Project Description

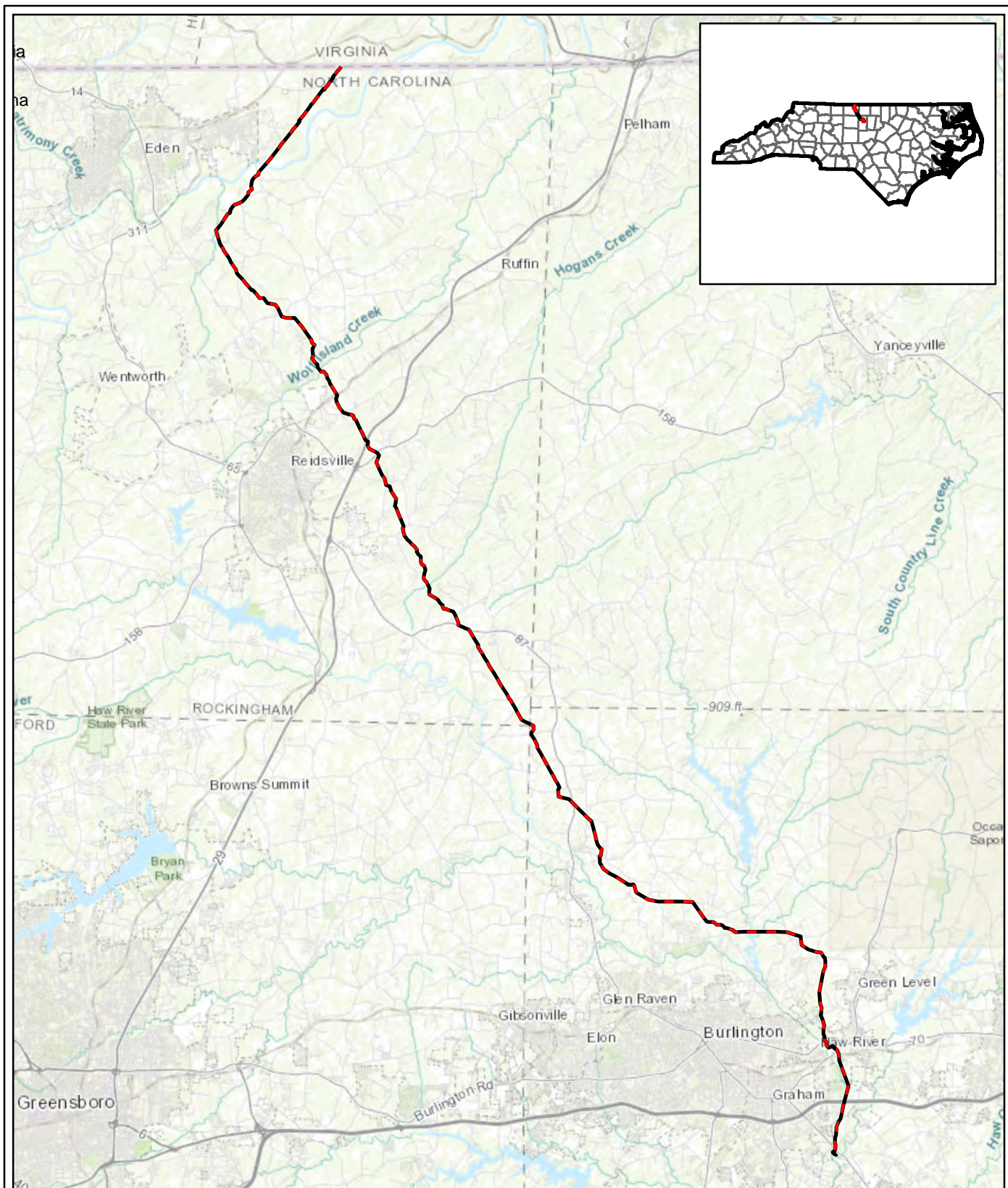
Mountain Valley Pipeline, LLC (Mountain Valley) is seeking a Certificate of Public Convenience and Necessity (Certificate) from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (Project). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina (Figure 1). Mountain Valley proposes to construct an approximate 73-mile natural gas pipeline with associated aboveground facilities and access roads to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States. To the extent practicable, Mountain Valley has collocated the new pipeline parallel to existing utility corridors, trails, and roads. Subject to receipt of the required permits and regulatory approvals, Mountain Valley anticipates construction of the Project to commence in spring of 2020.

The proposed Project will interconnect with and receive gas from the existing Mountain Valley Pipeline near Chatham, Virginia, and the East Tennessee Natural Gas, LLC. pipeline near Eden, North Carolina, and will deliver gas to connections with customers' existing facilities in Eden and Graham, North Carolina. The Project is a stand-alone development from the Mountain Valley Pipeline and has an expected in-service date of late 2020.

1.2 Regulatory Setting

The Federal Endangered Species Act of 1973 (ESA) [16 U.S.C. 1531 et seq.] provides for the listing, conservation, and recovery of endangered and threatened species of plants and wildlife. Under the ESA, the U.S. Fish and Wildlife Service (USFWS) is mandated to monitor and protect listed species. Many states enacted similar laws.

The North Carolina Wildlife Resource Commission (NCWRC) administers the North Carolina Endangered Species Act (ESA) (ST § 113 -331-350; 1987). NCWRC defines an endangered species as any native or once-native species of wild animal whose continued existence as a viable component of the state's fauna is determined by NCWRC to be in jeopardy or any species of wild animal determined to be an "endangered species" pursuant to the federal ESA. This statute empowers the NCWRC to list species and outlines criteria for species listing and protection.



— Project Centerline

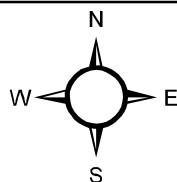


Figure 1. Location of the proposed MVP Southgate Project within the State of North Carolina.

Project No.
1219.04

3.5 0 3.5 7
KM
Base Map: USGS Topographic Map



**ENVIRONMENTAL SOLUTIONS
& INNOVATIONS, INC.**

The NCWRC protects approximately 40 freshwater mussel species under the State Endangered Species Act including seven that are federally endangered and regulated by the USFWS. Freshwater mussel surveys (with detailed habitat mapping) and relocations (if necessary) are completed in accordance with standard mussel sampling protocols similar to those implemented in other states (e.g., Virginia and West Virginia).

1.3 Mussel Species

The proposed Project traverses watersheds known to harbor state and federally listed species such as federally endangered James spiny mussel (*Parvaspina collina*) found within streams of the Dan River system. Additionally, Atlantic pigtoe (*Fusconaia masoni*) is currently proposed for federal listing with designated critical habitat in the vicinity of the project crossing of the Dan River. Several other North Carolina listed freshwater mussel species may potentially occur in various watersheds along the Project such as: state endangered yellow lampmussel (*Lampsilis cariosa*), state endangered green floater (*Lasmigona subviridis*), state endangered Carolina creekshell (*Villosa vaughaniana*), state endangered Savannah lilliput (*Toxolasma pullus*), state threatened eastern lampmussel (*Lampsilis radiata*), state threatened creeper (*Strophitus undulatus*), and state special concern notched rainbow (*Villosa constricta*) (NCNHP 2016, NCWRC 2018, Appendix A).

1.4 Agency Correspondence

On July 3, 2018, Mountain Valley held a call with NCWRC and USFWS to address state and federally listed species concerns along the proposed Project in North Carolina. USFWS and NCWRC reviewed the proposed Project alignment and identified three streams (i.e., Dan River, Cascade Creek, and Wolf Island Creek) where instream impacts should be avoided (i.e., HDD, directional bore) because of the potential presence of federally endangered James spiny mussel or Roanoke logperch (*Percina rex*).

On August 10, 2018, NCWRC provided comments on the Project alignment and identified locations for aquatic surveys (Appendix A). NCWRC recommended surveys in nine streams within the Dan River basin and an additional eight streams in the Haw River basin (Table 1). If the Project alignment traverses any stream (listed in Table 1) multiple times, then each crossing location requires survey; as well as any new stream crossings traversed along alignment alterations. NCWRC identified Deep Creek (Alamance County) and Cascade Creek (Rockingham County) as waterbodies known to support rare, threatened, and endangered (RTE) mussels; specifically records of eastern lampmussel in Deep Creek. Wolf Island Creek was also identified for harboring a high quality aquatic community and is known habitat for the federally endangered Roanoke logperch. NCWRC recommended avoidance of instream impacts at these waterbodies.

Table 1. Desktop review of stream crossings potentially supporting freshwater mussel resources along the MVP Southgate Project in North Carolina.

River Basin	County Name	Mile Post	Stream ID	Waterbody Name ¹	Drainage Area (km ²)	Latitude	Longitude
Dan	Rockingham	27.5	S-A18-42	Cascade Creek	77.8	36.52802	-79.64619
Dan	Rockingham	27.7	S-A18-40	Cascade Creek	93.7	36.52608	-79.64806
Dan	Rockingham	30.2	S-A18-17	Dan River	110.9	36.49736	-79.67620
Dan	Rockingham	31.4	S-B18-95	Rock Creek	2.7	36.48337	-79.68671
Dan	Rockingham	32.2	S-A18-147	Machine Creek	2.4	36.47511	-79.69783
Dan	Rockingham	32.7	S-A18-151_A	Town Creek	28.0	36.46942	-79.70280
Dan	Rockingham	33.1	S-A18-151_B	Town Creek	27.0	36.46526	-79.70324
Dan	Rockingham	38.8	S-A18-8	Wolf Island Creek	49.0	36.40391	-79.64681
Dan	Rockingham	41.2	S-B18-56	Lick Fork	3.3	36.37753	-79.62505
Dan	Rockingham	43.3	S-A18-176	Jones Creek	11.5	36.35211	-79.61098
Dan	Rockingham	47.0	S-C18-76/ AS-C18-76	Hogans Creek	16.0	36.30570	-79.58796
Haw	Rockingham	48.7	S-A18-60	Giles Creek	0.9	36.28843	-79.57145
Haw	Rockingham	50.9	AS-NHD-305	UNT Haw River	2.4	36.26430	-79.55105
Haw	Alamance	52.8	S-B18-94	UNT Haw River	0.7	36.24182	-79.53117
Haw	Alamance	53.7	S-A18-84	UNT Haw River	0.7	36.22987	-79.52720
Haw	Alamance	58.7	S-C18-11	UNT Haw River	3.0	36.17245	-79.48555
Haw	Alamance	63.6	S-B18-16*/ AS-B18-16	Stony Creek	137	36.14646	-79.41138
Haw	Alamance	64.0	AS-NHD-1547	Deep Creek	23.0	36.14641	-79.40398
Haw	Alamance	67.1	AS-NHD-1558	Boyds Creek	12.0	36.11683	-79.37260

UNT = Unnamed tributary

The August 10, 2018 letter from NCWRC indicated targeted fish surveys were not required for the Project; however, any state listed, federally listed, or species of greatest conservation need (as listed in the 2015 NC Wildlife Action Plan) should be noted if encountered during surveys.

2.0 Methods

Mussel surveys (with detailed habitat mapping) follow guidance provided by NCWRC and USFWS – Raleigh Field Office (Appendix A). Mussel collections are supervised by individuals who attended the Freshwater Mussels of Eastern North Carolina Identification Workshop (Appendix B).

2.1 Desktop Review

A detailed GIS desktop analysis was completed to identify potential freshwater mussel occurrences along the currently proposed Project alignment. The desktop analysis is an ongoing process and is updated as new alignments or route variations occur. Waterbodies traversed by the Project (including access roads and alternatives) are identified and assessed for their potential to support Unionid mussels including watershed size (upstream drainage), stream order (Strahler), stream type (i.e., ephemeral, intermittent, or perennial) with topographic map confirmation, existing available mussel distribution data, and correspondence with USFWS and/or NCWRC.

2.1.1 Dan River Basin

In the Dan River basin, nine streams were identified by NCWRC (i.e., Strahler stream order 1:24,000 scale) where multiple stream crossings are proposed along same-named streams. Based on the current alignment and NCWRC recommendations, 11 crossings of the Dan River basin warrant mussel surveys.

2.1.2 Haw River Basin

NCWRC recommended surveys along eight streams in the Haw River basin including four unnamed tributaries of the Haw River. Mussel surveys are anticipated in first order and greater perennial stream crossings within the Haw River basin.

In total, surveys are anticipated at 19 stream crossings along the current proposed Project in the Dan and Haw River basins (Table 1; Appendix C). At present, freshwater mussel surveys are not anticipated in any other tributaries or watersheds (not previously identified).

2.2 Freshwater Mussel Surveys

Mussel occupancy surveys are completed at streams identified during desktop analysis. Preliminary, qualitative mussel survey efforts are conducted from bank to bank and extend 100 meters upstream and 300 meters downstream of the area of direct impact (ADI) at each crossing. The Project ADI is anticipated at 30 meters. The total stream length where surveys are anticipated to occur measures 430 meters in length. Qualitative surveys are conducted using timed search survey cells delineated at 20-meter intervals along the thalweg and throughout the 430-meter stream reach. Detailed habitat maps are georeferenced and delineated by stream morphology (i.e., pools, riffles, and runs) based on water depth, velocity, and substrate. Additionally, beaver (*Castor canadensis*) activities are noted and resultant impounded stream sections are delineated as encountered. Surveyors document visibility and substrate conditions, including leaf litter accumulation and algal growth. Water clarity and visibility are assessed via horizontal Secchi disk measurements in the benthic zone.

Depending on water depth, snorkeling (<1 meter deep) or scuba/surface supply air (>1 meter deep) are used to survey for mussels. Surveyors use their hands and fingertips to fan the top level of substrate and rake loose sediments to search for embedded mussels. Surveyors overturn large flat rocks and search beneath them where mussels could reside. Location, species counts, survey method (i.e., snorkel, scuba, surface supply), and search efforts are recorded. Live mussels are identified to species (to maximum extent possible), morphometrically processed, and returned to the stream. Representative deadshell material is also identified (when possible) and may be retained for specimen vouchers. Voucher specimens are verified and deposited in the North Carolina Museum of Natural Sciences.

Stream crossings that yield live mussels require further agency coordination. A second mussel survey effort (i.e., removal effort) may be warranted prior to instream disturbance (Appendix A).

As requested by NCWRC, state listed, federal listed, or species of greatest conservation need (e.g., mussels or crayfish) as listed in the 2015 NC Wildlife Action Plan encountered during surveys will be recorded, photographed, and returned to the location of capture.

3.0 Schedule

The Project is currently in the planning stages and the mussel survey schedule is contingent upon Project permitting and the construction schedule. Mussel survey efforts in the Dan and Haw River drainages will be conducted in 2019. NCWRC

recommends completing mussel surveys during optimal survey periods between April until leaf fall (i.e., mid-October) during periods of low flow conditions and high visibility. Surveys completed during sub-optimal conditions (e.g., algal growth, elevated turbidity, leaf litter) must use tactile searches which reduce progress and efficiency. Surveys performed after mid-October, when optimal conditions have passed, carry low detection probabilities and may be subject to reassessment.

4.0 Reporting

ESI will prepare a comprehensive report at the end of the year including the results of all freshwater mussel surveys performed and observations of fishes along the Project for submission to NCWRC and USFWS. Reports follow a scientific format and include a description of the regulatory setting requiring the field studies, background information on the Project location, survey methods, habitat mapping, results, and discussion. The text of this report is augmented with GIS maps where appropriate, copies of field data sheets, and representative photographs. Additionally, ESI will enter freshwater mussel data into NCWRC's Portal Access to Wildlife Systems (PAWS) database in association with ESI's scientific collection permits (Appendix D).

5.0 Agency Coordination

Appropriate NCWRC and USFWS personnel will be contacted prior to commencing survey activities within specific river drainages. Prior to commencement of surveys in the Dan River Basin, survey dates will be provided to T.R. Russ, the NCWRC Foothills Region Aquatic Wildlife Diversity Coordinator. Brena Jones, the Central Aquatic Wildlife Diversity Coordinator will be contacted prior to surveys in the Haw River Basin. Any state-listed species encountered will be reported to NCWRC. If the Project route changes and includes additional crossings, USFWS and NCWRC consultation will be undertaken to determine whether additional surveys are recommended.

In the event a federally threatened or endangered species is encountered, USFWS-Raleigh and NCWRC will be notified within 24 hours via phone or email. A GPS coordinate will be recorded at the exact capture location. At the time of capture, the mussel will be photographed, and measured before being returned to the water at the exact capture location.

6.0 Requests for Agency Concurrence

Please consider this Study Plan a request for authorization to address mussel-related concerns along the length of the Project in North Carolina.

In summary, ESI seeks concurrence from the NCWRC and USFWS (Raleigh Field Office) for the following:

- Approval to commence mussel surveys at all streams identified in Table 1 along the Project route in 2019.
- Confirmation that results of survey data collected on a specific site are subject to NCWRC review and are to be considered valid for two years from the date the survey was conducted.

7.0 Literature Cited

North Carolina Natural Heritage Program (NCNHP). 2016. List of Rare Animal Species of North Carolina. Available online at: <https://files.nc.gov/dncr-nhp/documents/files/2016-nhp-list-of-rare-animals-of-nc-revised-20170404.pdf> Accessed on October 13, 2018.

North Carolina Wildlife Resources Commission (NCWRC). 2018. North Carolina Species Information. Raleigh, NC. Available online at <https://www.ncwildlife.org/Learning/Species> Accessed on October 13, 2018.

**APPENDIX A
CORRESPONDENCE**



☐ North Carolina Wildlife Resources Commission ☐

Gordon Myers, Executive Director

MEMORANDUM

TO: Megan Stahl, Permitting Coordinator
MVP Southgate

FROM: Vann Stancil
Research Coordinator
Habitat Conservation Division

DATE: September 20, 2018

SUBJECT: Comments on freshwater mussel study plan for MVP Southgate Project,
Rockingham and Alamance counties.

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have met with representatives of the MVP Southgate Project and have previously provided recommendations for freshwater mussel surveys. Comments are provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667e), North Carolina Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25) and North Carolina General Statutes (G.S. 113-131 et seq.).

The MVP Southgate Project is an interstate natural gas pipeline project that will extend approximately 72 miles from Pittsylvania County, Virginia to delivery points in North Carolina. Approximately 46 miles of the 24" diameter pipeline will traverse the Dan and Haw river basins in Rockingham and Alamance counties. The project will terminate in Alamance County on the east side of the Haw River between Graham and Swepsonville.

The applicant has requested comments and concurrence for a mussel study plan dated August 31, 2018. The plan provides detailed information on survey methods and locations as well as

surveyors' credentials. Environmental Solutions and Innovations, Inc. (ESI) will conduct the mussel surveys.

The NCWRC has reviewed the MVP Southgate mussel study plan. Mussel surveys are needed to determine appropriate pipeline crossing methods and crossing locations. If any live mussels are collected, a second mussel survey will be needed prior to pipeline installation to relocate mussels that may be impacted by pipeline construction activities. Mussel relocation details can be determined at a later date. We have the following specific concerns and recommendations for the mussel study plan:

- 1.3. The eastern creekshell, *Villosa delumbis*, is no longer a state endangered species; it is now only a Species of Greatest Conservation Need (SGCN) per the 2015 NC Wildlife Action Plan.
- 1.3. There are sparse records for the state endangered Savannah lilliput, *Toxolasma pullus*, in the Haw River basin. Although there are no records from the Haw River basin near the MVP Southgate project, given the relative paucity of surveys, this species may be present and should be added to the list of state and federally listed mussel species. Adults are typically < 25 mm in length; therefore, the species can be more difficult to detect than larger mussels.
- 2.1.1. There are currently 13 crossings of streams within the Dan River basin that require surveys, not 13 crossings of the Dan River proper.
- 2.2. The surveys should cover all the stream habitat within the entire 430-meter reach and be divided into 20-meter segments. The language in this section does not clearly state that the entire 430-meter reach will be surveyed.
- 2.2. Beaver dams should be noted and delineated but impounded reaches should also be surveyed for freshwater mussels. Listed species have been found in impounded habitats.
- 2.2. Vouchered specimens should be verified and deposited with the NC Museum of Natural Sciences.
- 2.2. Any live RTE mussels should be photographed and returned to their capture location.
- 2.2. Any listed or SGCN crayfish or fish species encountered during mussel surveys should be denoted.

- Table 1. The drainage area for the UNT Haw River at mile post 53.7 is listed as 0.03 km² in Table 1. This drainage area should be ~ 0.7 km² based on our calculations.
- 3.0. Survey and relocation efforts should occur during the optimal survey period of April until leaf fall (mid-Oct), when there is low flow and high visibility. Detection probabilities for mussels are reduced with sub-optimal conditions such as leaf litter, algal growth, and high turbidity. There is limited time remaining to conduct mussel surveys in 2018. If surveys are done after mid-October, tactile searches will be necessary, which will cause surveys to take longer and be less efficient.
- 3.0. Surveyors should document visibility and substrate conditions (including leaf litter and algal growth) at the time of surveys and photographs should be included for verification. Surveyors should also assess water clarity and visibility by recording a Secchi disk distance which is measured horizontally at the same depth as surveys are conducted.
- 3.0. Data should be interpreted with the caveat that mussels already have an inherently higher probability of imperfect detection/false absences which is compounded by conducting surveys in sub-optimal conditions. NCWRC may request repeat surveys if initial surveys or relocation efforts are conducted in sub-optimal conditions.
- 4.0. Data should be directly entered by ESI into the NCWRC's PAWS database.
- 5.0. In addition to contacting T.R. Russ for surveys in the Dan River basin, please contact Brena Jones, Central Aquatic Wildlife Diversity Coordinator (brena.jones@ncwildlife.org, 919-707-0369), regarding survey dates for Haw River basin streams.
- 6.0. We concur that surveys can commence in 2018 with the caveats previously mentioned regarding visibility and mussel detectability.
- 6.0. We confirm that survey data will be valid for 2 years from the survey date. However, as stated previously, NCWRC may request repeat surveys if initial surveys are conducted during sub-optimal conditions.
- 6.0. We request a revised mussel study plan that incorporates our comments.
- A map showing mussel survey locations would be helpful in the revised mussel study plan.

- Please include ESI's scientific collection permits in the revised study plan.

Thank you for the opportunity to review and comment on this project. If the NCWRC can be of further assistance, please contact Olivia Munzer at (919) 707-0364 and olivia.munzer@ncwildlife.org or me at (919) 284-5218 and vann.stancil@ncwildlife.org.

cc: Olivia Munzer, NCWRC
Brena Jones, NCWRC
T. R. Russ, NCWRC
John Ellis, USFWS
Sarah McRae, USFWS
Judy Ratcliffe, NCNHP



☐ North Carolina Wildlife Resources Commission ☐

Gordon Myers, Executive Director

MEMORANDUM

TO: Megan Stahl, Permitting Coordinator
MVP Southgate

FROM: Vann Stancil
Research Coordinator
Habitat Conservation Division

DATE: August 10, 2018

SUBJECT: Comments on proposed route and species surveys for MVP Southgate Project,
Rockingham and Alamance counties.

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have met with representatives of the MVP Southgate Project and have reviewed the proposed project description. Comments are provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667e), North Carolina Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25) and North Carolina General Statutes (G.S. 113-131 et seq.).

The MVP Southgate Project is an interstate natural gas pipeline project that will extend approximately 72 miles from Pittsylvania County, Virginia to delivery points in North Carolina. Approximately 46 miles of the pipeline will traverse the Dan and Haw river basins in Rockingham and Alamance counties. The project will terminate in Alamance County on the east side of the Haw River between Graham and Swepsonville. The applicant has provided detailed information on the current proposed pipeline route and has requested information to guide aquatic and terrestrial surveys for this project.

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The NCWRC has reviewed the MVP Southgate route. In general, we have identified locations where impacts can be lessened by reducing the number of stream crossings, following existing rights-of-way (ROW), reducing fragmentation of forested blocks, and reducing impacts to riparian zones. Locations of stream crossings are based on GIS stream layers; on-the-ground surveys may reveal that actual stream locations differ from what is shown on maps. We have the following specific concerns and recommendations about the current pipeline route:

Rockingham County

- The route crosses Cascade Creek in NC beside an existing utility ROW that is cleared along the riparian zone. There are records for the Federal Endangered Roanoke Logperch and other rare aquatic species in the North Carolina portion of Cascade Creek. Given the high quality of the aquatic community in Cascade Creek, we recommend that horizontal directional drilling (HDD) or conventional bore be used to cross this waterbody.
- The route crosses Rock Creek three times near its confluence with the Dan River and the route does not follow the existing ROW. Following the existing ROW would result in one creek crossing and less forest fragmentation. We recommend that the route be modified to reduce forest fragmentation so that Rock Creek is only crossed once, preferably along the existing ROW.
- Town Creek is crossed twice, the southern crossing is not along the existing ROW. If the MVP Southgate route followed the existing ROW, it would still cross Town Creek twice, but forest fragmentation would be reduced. Another alternative is to move the route farther east and avoid crossing Town Creek altogether, but this option could result in more forest fragmentation.
- There is an intermittent stream in the Town Creek watershed located between SR 1978 and SR 1979. The MVP Southgate route crosses it five times, as does the existing ROW. Four of the five current crossings are shared with the existing ROW. The route could be modified slightly to reduce the number of crossings from five to three. At the southernmost crossing of this intermittent stream, the pipeline diverges from the existing ROW and crosses a forested area north of SR 1980 and west of SR 1979. The proposed route continues to cross a forested block between SR 1982 and SR 1941 before it eventually reconnects with the existing ROW prior to crossing Wolf Island Creek. The preferred route would be to continue co-location with the existing ROW in this area.
- The pipeline route crosses an unnamed tributary to Wolf Island Creek two times on the north side of the Wolf Island Creek crossing. The Piedmont Land Conservancy controls an easement for a parcel on the west side of the unnamed tributary near the pipeline

location. The route could be modified to reduce the number of crossings along this unnamed tributary. There are records for the Federal Endangered Roanoke Logperch and other rare aquatic species in Wolf Island Creek. Given the high quality of the aquatic community in Wolf Island Creek, we recommend that HDD or conventional bore be used to cross this waterbody.

- The proposed route deviates from the existing ROW and crosses a forested area spanning from U.S. Highway 158 south to Daisy Drive east of Reidsville. Forest fragmentation could be reduced if the route followed the existing ROW on the west side to SR 2579. This could also shorten the length of the route.
- Forest fragmentation could also be reduced by following the existing ROW near the SR 2588 crossing.
- East of Williamsburg between SR 2571 and NC Highway 150, the pipeline crosses a large forested area with intermittent agricultural lands, Hogans Creek, and its unnamed tributaries. We prefer the pipeline to be co-located with the existing ROW.

Alamance County

- The pipeline crosses a forested area located south-southwest of SR 1594 and northwest of SR 1595 near Burlington. Forested fragmentation could be reduced by continuing to collocate the line southward until the existing east-west ROW (36.16604 N, -79.48789 W) and co-locate the line with the existing ROW eastward to SR 1595. Alternatively, the pipeline could extend to the southernmost end of the agricultural field south of the pond (36.1745 N, -79.48869 W), then continue south-southeast to SR 1595.
- After crossing SR 1598, the proposed route deviates from the existing ROW. The proposed pipeline is also only 700 feet south of a NC Division of Mitigation Services easement. A new pipeline corridor south of the mitigation project may reduce the effectiveness of the mitigation project. Forest fragmentation could be reduced if the route followed the existing ROW across SR 1601. This could also shorten the length of the route.
- There are records for Eastern Lampmussel (*Lampsilis radiata*) in Deep Creek upstream from the proposed crossing location. Therefore, we recommend that HDD or conventional bore be considered for crossing this waterbody.

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- The Stony Creek Natural Heritage Natural Area occurs near the pipeline centerline on the east side of Stony Creek Reservoir. We recommend stringent erosion and sedimentation controls if the pipeline route remains close this natural area.
- The proposed route bisects a large forested block where it crosses Boyds Creek. Alternative routes may reduce forest fragmentation.
- The proposed route is within 250' of the Haw River south of US 70 and also north of I-40. The route is within 150' of the Haw River south of I-40 and within 200' north of NC 54 near the end of the route. We recommend examining alternative routes farther east that will be located farther from the Haw River. If alternative routes are not practical, when the route parallels the Haw River, it should be located farther away from the river to maintain the riparian zone and reduce forest fragmentation.

NCWRC offers the following comments regarding aquatic surveys:

- NCWRC requests freshwater mussel surveys for the following streams in the Dan River basin: Cascade Creek, Dan River, Hogans Creek, Jones Creek, Lick Fork Creek, Machine Creek, Rock Creek, Town Creek, and Wolf Island Creek. Please notify T. R. Russ, Foothills Region Aquatic Wildlife Diversity Coordinator (thomas.russ@ncwildlife.org, 928-803-6035), of the dates when sampling will occur in Dan River basin waterbodies.
- In the Haw River basin, freshwater mussel surveys should be conducted in all perennial streams first order and higher. Using the current route shapefile, this would include Boyds Creek, Deep Creek, Giles Creek, Stony Creek, and 4 unnamed tributaries to the Haw River. Using the current shapefile, these 4 unnamed tributary crossings are located at 36.17242, -79.48576; 36.22968, -79.5274; 36.24187, -79.53111; and 36.2643, -79.55023.
- If the pipeline route crosses one of these streams more than once, surveys should be conducted at each crossing location. If the current proposed route changes to include new stream crossings, additional sites may require surveys.
- Preliminary mussel surveys are needed to determine appropriate pipeline crossing methods and crossing locations. If any live mussels are collected, a second mussel survey will be needed prior to pipeline installation to relocate mussels that may be impacted by pipeline construction activities.

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- Preliminary mussel surveys should extend 100 meters upstream and 300 meters downstream of the proposed crossing location.
- Habitat data, depth, substrate, habitat type (riffle, run, pool) should be mapped for each survey reach. Survey reaches should be divided into 20-meter sections to better determine areas of high mussel densities for crossing locations.
- Surveys for the Greensboro Burrowing Crayfish, *Cambarus catagius*, should be conducted in work areas within 200 ft of any mapped stream, both intermittent and perennial in the Haw River basin. Effort should cover all areas which will be excavated (i.e., for pipeline burial) as well as 25 feet on either side to allow for equipment space. Work pads for HDD access and conventional boring should also be included, along with any other areas where ground disturbance may lead to crayfish mortality through burrow destruction and crushing. If there are signs of burrowing crayfish activity (holes), burrows should be investigated, and inhabitants relocated.
- The Greensboro Burrowing Crayfish has been found in all types of soils from sandy loams to hard clay and burrows are not usually directly associated with any drainage or stream flow (McGrath 1994). The species has never been found in any flowing water. The full extent of its distribution in this watershed is unknown due to lack of targeted surveys. Please notify Brena Jones, Central Aquatic Wildlife Diversity Coordinator (brena.jones@newwildlife.org, 919-707-0369), if any Greensboro Burrowing Crayfish are located.
- For burrowing crayfish surveys, we recommend using a device called a Yabby Pump to remove the crayfish from its burrow. This device is far less invasive and labor-intensive than excavating burrows. We can provide additional information on the device, including photos and demonstrations, as needed.
- We recommend conducting burrowing crayfish surveys during winter months when burrows are more likely to be visible and water tables are typically higher. Collected crayfish should be identified, photographed, and relocated to suitable habitat nearby that will not be impacted by pipeline construction activities.
- No targeted surveys for Greensboro Burrowing Crayfish are needed in the Dan River basin; this endemic species is only known from the upper Cape Fear and a portion of the Yadkin-Pee Dee basins. However, if any crayfish burrows or tunnels are observed in the Dan River basin tributaries, they should be surveyed using the techniques described for Haw River basin surveys.

- Stream crayfish surveys should be conducted in all first to third order streams in the Dan and Haw river basins. These surveys should include 20 kicks into a seine approximately 8 feet wide. The area upstream of the seine should be disturbed by flipping rocks or kicking under banks or root wads to dislodge crayfish. The primary purpose of these surveys is to determine abundance and distribution of the Carolina Ladle Crayfish, *Cambarus davidi*, but other crayfish species may also be encountered. Collected crayfish should be identified, photographed, and enumerated. Seining effort should be spaced to include the 400-meter mussel survey area that extends above and below the proposed crossing location.
- No targeted fish surveys are necessary, but any state listed, federal listed, or Species of Greatest Conservation Need (SGCN) as listed in the 2015 NC Wildlife Action Plan that are encountered during surveys for freshwater mussels or crayfish should be denoted.
- If temporary dams are used for stream crossings, any aquatic species (fish, crayfish, mussels, reptiles and amphibians) found within the temporary dam footprint and dewatered area should be removed and relocated to suitable habitat away from the construction area.

NCWRC offers the following comments regarding surveys for terrestrial species:

Bats

NCWRC received the revised study plan for bat surveys dated 23 July 2018. We concur with the presence/probable absence survey methodology as described within the bat survey plan.

However, we recommend the following changes and/or additions to the proposed survey sites, if landowner access is feasible:

- NC-SB01 – Map 1: Shift the survey block south approximately 0.3 km to include the creeks (Dry Creek and unnamed tributaries) that flow into the Dan River. In this area, Dry Creek and its unnamed tributaries flow through a large forested area.
- NC-SB04 – Map 5: Include forested area above this block near TA-RO-105.
- NC-SB06 – Map 7: Area north of this block seems less fragmented and potentially better habitat, especially on the west side of the pipeline ROW. Consider adding a survey block or extending the survey block to include this area.

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- NC SB08 – Map 8 & 9: There is more forested habitat and less agriculture north of TA-RO-140 to about TA-RO-133 than seen in the current survey block. Consider adding or substituting this area for NC SB08.
- NC SB15 – Map 15 & 16: Some of the industrial/highway areas in this block could be omitted. Consider starting the survey block around Stone Street/NC HWY 1935 and extend it farther south towards the end of the line. This would provide more options for good net sites, especially along the Haw River and its tributaries.

In the study plan, ESI requests concurrence that the project area may be cleared at any time of the year without restriction unless a federally-listed bat roost is found in the project vicinity. NCWRC prefers the avoidance of mature tree clearing activities during the maternity roosting season (May 15 – August 15), if ESI finds state-listed bat species.

Reptiles and Amphibians

Jeff Hall, the Reptile and Amphibian Conservation Biologist for NCWRC, has requested a desktop review of the MVP Southgate pipeline corridor to identify potential suitable habitat for four-toed salamanders and mole salamanders. Jeff Hall will review the findings and identify a subset of potentially suitable habitats to be surveyed for these salamander species.

Birds

Co-locating of the proposed pipeline with other linear projects reduces the fragmentation of forests. Many forest birds that breed in North Carolina are sensitive to habitat patch size. As patch size decreases and more edges are created, nest parasitism and nest predation increase. Fragmentation also impacts important ecosystem function, such as decreased forest biomass and nutrient cycling, thereby reducing abundance, biodiversity, persistence, and movement of wildlife (Haddad et al. 2015). The effects of fragmentation increase over time and the smaller and more isolated fragments are impacted most (Haddad et al. 2015). To reduce impacts of forest fragmentation on birds, we recommend limiting the number of large forested patches bisected by the pipeline.

Migratory birds and their eggs are protected from “take” by the Migratory Bird Treaty Act of 1918. Therefore, we recommend avoiding any clearing activities during the migratory bird nesting season, roughly March to August, or conduct surveys for active nests prior to construction to avoid “taking” migratory birds, which includes wounding or killing. We recommend surveys for active colonial nesting birds (i.e., rookery) and bald eagle nests within 0.5 miles of the pipeline corridor. Aerial surveys for bald eagle nests and colonial nesting birds should be conducted during winter months when deciduous trees have shed their leaves. If

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active rookeries are located, construction activities should not occur within 0.5-mile of each rookery from February 15 - July 31. Therefore, any construction activities begun prior to February 15th should cease by February 15th, allowing the birds to return to their rookeries with no added disturbance. We recommend adhering to the U.S. Fish and Wildlife National Bald Eagle Management Guidelines for high disturbance activities if nests occur within 0.5 miles of project activities.

Thank you for the opportunity to review and comment on this project. If the NCWRC can be of further assistance, please contact Olivia Munzer at (919) 707-0364 and olivia.munzer@ncwildlife.org or me at (919) 284-5218 and vann.stancil@ncwildlife.org.

Literature Cited

Haddad, N.M, L.A. Brudvig, J. Clobert, K.F. Davies, A. Gonzalez, R.D. Holt, T.E. Lovejoy, J.O. Sexton, M.P. Austin, C.D. Collins, W.M. Cook, E.I. Damschen, R.M. Ewers, B.L. Foster, C.N. Jenkins, A.J. King, W.F. Laurance, D.J. Levey, C.R. Margules, B.A. Melbourne, A.O. Nicholls, J.L. Orrock, D. Song, and J.R. Townshend. 2015. Habitat Fragmentation and its Lasting Impact on Earth's Ecosystems. *Science Advances* 1:e1500052.

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North Carolina Wildlife Resources Commission. 2015. North Carolina Wildlife Action Plan. Raleigh, NC

cc: Olivia Munzer, NCWRC
Brena Jones, NCWRC
T. R. Russ, NCWRC
Jeff Hall, NCWRC
Katherine Caldwell, NCWRC
John Ellis, USFWS
Sarah McRae, USFWS
Kathy Matthews, USFWS
Judy Ratcliffe, NCNHP



TELEPHONE / PERSONAL CONVERSATION REPORT

PROJECT NAME:	MVP Southgate Pipeline Project
MVP TEAM CALLER:	John Spaeth
CONVERSATION WITH:	Vann Stancil
AGENCY:	NCWRC
EMAIL ADDRESS:	
PHONE NUMBER:	919-284-5218
SUBJECT:	ESI inquiry about clarification regarding mussel survey and aquatic removal efforts identified in NCWRC correspondence dated 8/10/18
DATE AND TIME:	8/20/2018 16:20pm

SUMMARY OF CONVERSATION:

Vann Stancil called John Spaeth back.

John requested clarification regarding the following statements provided during the NCWRC Project Review Correspondence (Dated 8/10/2018).

“In the Haw River basin, freshwater mussel surveys should be conducted in all perennial streams first order and higher. Using the current route shapefile, this would include Boyds Creek, Deep Creek, Giles Creek, Stony Creek, and 4 unnamed tributaries to the Haw River. Using the current shapefile, these 4 unnamed tributary crossings are located at 36.17242, -79.48576; 36.22968, -79.5274; 36.24187, -79.53111; and 36.2643, -79.55023.”

John explained that the first statement indicates that all perennial streams 1st order and greater within the Haw River Basin need mussel surveys, but then subsequently lists only 4 specific, unnamed direct tributaries to the Haw River. John said there might be more than 4 unnamed, perennial 1st order streams in the Haw River basin that are crossed by the proposed alignment and asked if only those listed in the correspondence need surveys. Vann said only the 8 streams listed in the correspondence need mussel surveys. He was not aware of any other stream crossing along the reviewed alignment. He further stated that NCWRC anticipates alignment changes in the future. The ‘all perennial streams 1st order and higher’ term applies to any other potential alignment change that differs from the ‘current route shapefile’ that NCWRC reviewed. Vann said the Agency would appreciate surveys at any other stream crossing identified with potential for mussels or any streams along future alignment modifications. He instructed us to contact him if there were any other streams that needed their attention and/or review. If there was any questions about mussel surveys at any other stream crossing(s), he encouraged us to reach out and let them know.



John asked about the NCWRC Project review process for aquatic species issues/determinations. When determining Strahler stream orders and perennial (vs intermittent) stream designations, what scale or resolution are employed? John asked if stream orders are designated at the 1:100,000 scale or the 1:24,000 scale and if he was aware of the GIS base map used (such as topographic layers in GIS). Vann said Brena (Jones) completed the project review and desktop analysis and, based on file name used during that review process (named 'River & Streams' 24k), it is surmised that the 1:24,000 scale is used. He said perennial streams are designated as blue solid lines whereas dashed blue lines are intermittent or ephemeral stream sections.

In regards to the following statement derived from the NCWRC Project review (dated 8/10/2018), John asked about the anticipated level of effort associated with the removals of crayfish, reptiles and amphibians.

"If temporary dams are used for stream crossings, any aquatic species (fish, crayfish, mussels, reptiles and amphibians) found within the temporary dam footprint and dewatered area should be removed and relocated to suitable habitat away from the construction area."

John asked if there was an expected time or schedule for when the removal of crayfish, reptiles, and amphibians should occur and if the removal of these taxa should be an independent removal effort. Vann advised that any taxa, such as crayfish, that can be relocated during mussel removal efforts should be relocated. Additionally, any taxa observed within the dewatered footprint during fish removals should be relocated out of the project footprint. In summary, an independent effort to remove crayfish, reptiles, and amphibians is not necessary.

John explained that mussel removals are anticipated at streams with mussels before instream construction commences. John described how mussel and fish removals typically occur on different timelines. Mussel removal efforts occur in advance of actual instream pipeline construction whereas fish removals occur immediately prior to instream construction. Fish removal crews typically remove any animal found within the dewatered footprint because their objective is to remove fish or any other aquatic animal that may be subject to peril. Crayfish, reptiles, and amphibians can also be removed during that time.

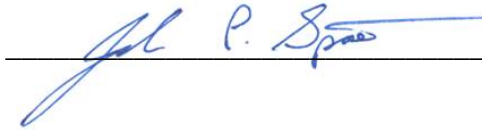
Vann inquired about the process of fish removals and asked if Southgate intended to follow similar fish removal protocols being performed on other large pipeline projects in North Carolina and Virginia. John confirmed that similar methods are planned along Southgate. Vann was interested in seeing the fish removal process, would like to be notified once the removals start, and have the option to be onsite for when those removals occur. Vann asked if a fish removal plan could be provided to NCWRC for review prior to activities and when that plan might be available. John said a plan could be generated but would likely be after initial aquatic surveys were completed and before construction activities begin.

John informed Vann that the information provided would be incorporated into a mussel survey study plan that would be submitted to NCWRC for review and comment. He could expect to receive that study plan in the near future.



End Call 16:45

Contact Signature:

A handwritten signature in blue ink, appearing to read "J. P. Spradley", is written over a horizontal line.



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Ecological Services Field Office
Post Office Box 33726
Raleigh, NC 27636-3726
Phone: (919) 856-4520 Fax: (919) 856-4556



In Reply Refer To:
Consultation Code: 04EN2000-2019-SLI-0155
Event Code: 04EN2000-2019-E-00348
Project Name: MVP Southgate

November 20, 2018

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 species list generated pursuant to the information you provided 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.

Section 7 of the Act requires that all federal agencies (or their designated non-federal representative), in consultation with the Service, insure that any action federally authorized, funded, or carried out by such agencies is not likely to jeopardize the continued existence of any federally-listed endangered or threatened species. A biological assessment or evaluation may be prepared to fulfill that requirement and in determining whether additional consultation with the Service is necessary. In addition to the federally-protected species list, information on the species' life histories and habitats and information on completing a biological assessment or

evaluation and can be found on our web page at <http://www.fws.gov/raleigh>. Please check the web site often for updated information or changes

If your project contains suitable habitat for any of the federally-listed species known to be present within the county where your project occurs, the proposed action has the potential to adversely affect those species. As such, we recommend that surveys be conducted to determine the species' presence or absence within the project area. The use of North Carolina Natural Heritage program data should not be substituted for actual field surveys.

If you determine that the proposed action may affect (i.e., likely to adversely affect or not likely to adversely affect) a federally-protected species, you should notify this office with your determination, the results of your surveys, survey methodologies, and an analysis of the effects of the action on listed species, including consideration of direct, indirect, and cumulative effects, before conducting any activities that might affect the species. If you determine that the proposed action will have no effect (i.e., no beneficial or adverse, direct or indirect effect) on federally listed species, then you are not required to contact our office for concurrence (unless an Environmental Impact Statement is prepared). However, you should maintain a complete record of the assessment, including steps leading to your determination of effect, the qualified personnel conducting the assessment, habitat conditions, site photographs, and any other related articles.

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). 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>.

Not all Threatened and Endangered Species that occur in North Carolina are subject to section 7 consultation with the U.S Fish and Wildlife Service. Atlantic and shortnose sturgeon, sea turtles, when in the water, and certain marine mammals are under purview of the National Marine Fisheries Service. If your project occurs in marine, estuarine, or coastal river systems you should also contact the National Marine Fisheries Service, <http://www.nmfs.noaa.gov/>

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. If you have any questions or comments, please contact John Ellis of this office at john_ellis@fws.gov.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Raleigh Ecological Services Field Office

Post Office Box 33726
Raleigh, NC 27636-3726
(919) 856-4520

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Virginia Ecological Services Field Office

6669 Short Lane
Gloucester, VA 23061-4410
(804) 693-6694

Project Summary

Consultation Code: 04EN2000-2019-SLI-0155

Event Code: 04EN2000-2019-E-00348

Project Name: MVP Southgate

Project Type: OIL OR GAS

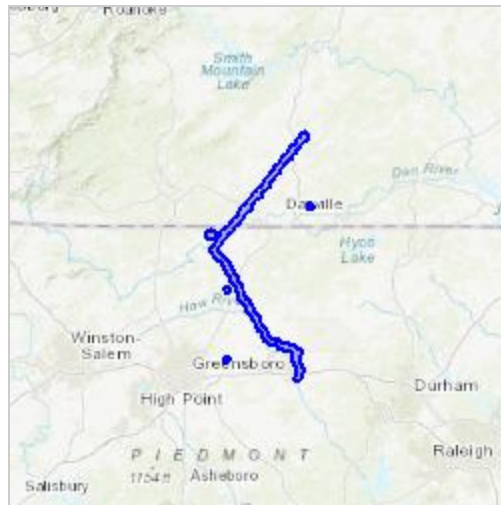
Project Description: Mountain Valley Pipeline, LLC (Mountain Valley) is seeking a Certificate of Public Convenience and Necessity (Certificate) from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (Project). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina (Appendix A; Figure 1). Mountain Valley proposes to construct an approximate 73-mile natural gas pipeline (with associated aboveground facilities and access roads), known as the H-650 pipeline, to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States. To the extent practicable, Mountain Valley will collocate the new pipeline parallel to existing utility corridors, trails, and roads. Subject to receipt of the required permits and regulatory approvals, Mountain Valley anticipates construction of the Project to commence in spring of 2020.

The proposed Project will interconnect with and receive gas from the existing Mountain Valley Pipeline near Chatham, Virginia, and the East Tennessee Natural Gas, LLC., pipeline near Eden, North Carolina, and will deliver gas to connections with customers' existing facilities in Eden and Graham, North Carolina. The Project is a stand-alone development from the Mountain Valley Pipeline and has an expected in-service date of late 2020.

A previous IPAC review for this project ("MVP Southgate") was completed July 24, 2018 (Virginia: Consultation Code: 05E2VA00-2018-SLI-4572 & Event Code: 05E2VA00-2018-E-10443; North Carolina: Consultation Code: 04EN2000-2018-SLI-1095 & Event Code: 04EN2000-2018-E-02232).

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/36.44071289297546N79.68060120099265W>



Counties: Alamance, NC | Caswell, NC | Guilford, NC | Rockingham, NC | Pittsylvania, VA

Endangered Species Act Species

There is a total of 6 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Fishes

NAME	STATUS
Roanoke Logperch <i>Percina rex</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1134	Endangered

Clams

NAME	STATUS
Atlantic Pigtoe <i>Fusconaia masoni</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5164	Proposed Threatened
James Spinemussel <i>Pleurobema collina</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2212	Endangered

Flowering Plants

NAME	STATUS
Schweinitz's Sunflower <i>Helianthus schweinitzii</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3849	Endangered
Small Whorled Pogonia <i>Isotria medeoloides</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	Threatened
Smooth Coneflower <i>Echinacea laevigata</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3473	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

APPENDIX B RESUMES



Environmental Solutions & Innovations, Inc.

Real Science, Real Solutions



EDUCATION

M.S., Biology/Watershed Resource Science, Marshall University, 2008.

B.S., Environmental Science, Marshall University, 2005

PROFESSIONAL CERTIFICATIONS

NC, PA, WV, OH, NJ, NY Qualified Freshwater Mussel Surveyor

VA Qualified Fish and Big Sandy Crayfish Surveyors Lists

Freshwater Mussels of Eastern NC Identification Workshop: NC Museum Natural Sciences, 2015

Ecological Training: ODOT, 2016

MD Biological Stream Survey Spring Sampling Training, 2013

Stream Habitat (QHEI) Certified Level 2 Qualified Data Collector: and Qualitative Habitat Evaluation Index (QHEI) / Biocriteria Training: Ohio EPA, 2008 and 2007

First Responder CPR and AED Certification and Primary and Secondary Care

Divers Alert Network (DAN) Oxygen Provider Certification

PADI: Dive Master, Dry Suit Specialist, Rescue Diver, and Equipment Specialist

PROFESSIONAL AFFILIATIONS

American Society of Mammalogists, Life Member

Southwestern Association of Naturalists, 1994

The Wildlife Society, 2000-Present

Freshwater Mollusk Conservation Society

Casey D. Swecker

Vice President

4525 Este Avenue
Cincinnati, OH 45232
513-451-1777

QUALIFICATIONS AND EXPERIENCE

Mr. Swecker serves as ESI's senior aquatic scientist / malacologist and is responsible for managing and implementing all aspects of ESI's aquatic services. He has completed literally hundreds of projects including presence/absence, habitat assessment, relocation, and monitoring in both large and small rivers across the eastern U.S. His credentials include listing on multiple states' Qualified Surveyors Lists. He is permitted by the U.S. Fish and Wildlife Service (USFWS) to collect federally listed fish species and Unionid mussels. Mr. Swecker is a certified Dive Master. He conducts surveys using SCUBA, surface supplied air, and both dry and wet suit following U.S. Army Corps of Engineers (USACE), OSHA, Commercial and Scientific Diving safety standards.

Mr. Swecker's aquatic survey specialties also include fish, crayfish, and macroinvertebrates. He regularly uses a variety of ecological field techniques, including: habitat assessment, seining, electrofishing (boat, backpack, and electric benthic trawl), fish population sampling (ICI), trawling (Missouri modified), water quality sampling, benthic macroinvertebrate sampling (IBI & Chironomid slide mounting and identification), pebble counts (Wolman) and other substrate classification methods, Rapid Bioassessment Protocol, Rosgen Classifications, GPS, depth sounders, and underwater photography and video.

Mr. Swecker is primary author of "Key to the crayfishes of Maryland" published by the Maryland Department of Natural Resources. He remains an active member of the Freshwater Mollusk Conservation Society (FMCS) and regularly participates in their symposiums and workshops both as an attendee and presenter.

PROJECTS

Dominion Transmission, Atlantic Cost Pipeline

Virginia, West Virginia, and North Carolina

Project Manager

Managing, conducting, and coordinating field surveys for threatened and endangered freshwater mussels, Roanoke logperch (*Percina rex*), tiger, Mabee's, green, and Cheat Mountain salamanders, and Neuse River waterdogs, Carolina madtom, candy darter, migratory birds and nesting habitat, rattlesnakes, North Carolina spiny and Chowanoke crayfishes along proposed 600-mile natural gas transmission mainline and associated laterals in Virginia, West Virginia, and North Carolina.

Koppers, Maintenance Dredging

Virginia

Project Manager

Completed surveys for federally endangered Roanoke logperch (*Percina rex*) at water intake structure on the Roanoke River in Salem. Survey was completed via use of 12 seine hulls within temporary silt retention barrier set up for maintenance dredging.



Mountain Valley Pipeline

West Virginia (12 counties) and Virginia (6 counties)

Project Manager

Multi-taxa surveys along 300-mile natural gas pipeline including freshwater mussels, crayfish, bog turtles, Roanoke logperch, and orange-fin madtom.

American Electric Power, Cloverdale Extra High Voltage Transmission Improvement

Virginia

Project Manager

Completed habitat assessments for Roanoke logperch in Botetourt County.

American Electric Power, Cloverdale-Lexington 500 kV Transmission Line

Virginia

Project Manager

Completed surveys for federally listed Roanoke logperch, and James spiny mussel (*Parvaspina collina*) or their preferred habitat in Botetourt and Rockbridge counties.

Williams, Transco Mid-South Upgrade

North Carolina and Alabama

Project Manager

Completed habitat assessments for endangered fish, mussels, and snails along four proposed pipeline loops in Davidson, Gaston, and Rowan counties in North Carolina; and Rockford and Randolph counties in Alabama. Responsibilities included species identification, processing, analysis, and reporting.

Virginia Department of Game and Inland Fisheries

Virginia

Project Manager

Mark-recapture mussel monitoring at two stream reaches of Craig Creek in Botetourt County. Collected live federally endangered James spiny mussels and a live Atlantic pigtoe, state species of concern.

Williams and Boardwalk, Bluegrass Pipeline

Kentucky

Project Manager

Completed federal and state threatened and endangered freshwater mussel surveys at eight stream crossings in Kentucky. Streams surveyed included Beech Fork, Fork Lick, Kincaid Creek, Licking River, North Elkhorn Creek, two crossings on Nolin River, South Fork Licking River, and Salt River. Live fanshell (*Cyprogenia stegaria*), a federally endangered species, was collected at one stream crossing.

American Electric Power, South Lynchburg Area Improvements

New Jersey

Project Manager

Completed assessments to identify potential habitat for federally listed Roanoke logperch (*Percina rex*) at two crossings (Buffalo Creek and unnamed tributary to Flat Creek) along 9-mile power line right-of-way in Campbell County, Virginia.

Tennessee Gas Pipeline, 300 Line

New Jersey

Project Manager

Mussel habitat assessment at proposed pipeline crossing on the Wallkill River in the Wallkill River National Wildlife Refuge. Evaluated abiotic (stream morphology, substrate, condition) and biotic (vegetation, riparian zone, presence/absence of live or dead mussels) factors along 200-foot reach of stream to determine suitability for native unionid mussels potentially impacted by general construction activities. Collected, tagged, and relocated over 900 live individuals, including state threatened eastern lampmussel, triangle floater, and creeper (a NJ species of special concern). Developed and implemented monthly monitoring plan to assess relocated population through 2014.



Environmental Solutions & Innovations, Inc.

Real Science, Real Solutions

John P. Spaeth

Malacologist

4525 Este Avenue

Cincinnati, OH 45232

513-451-1777



EDUCATION

M.S., Biological Sciences,
University of Southern Mississippi,
2008

B.S., Biological Sciences, Northern
Kentucky University, 2003

PROFESSIONAL CERTIFICATIONS

OH & WV Qualified Freshwater
Mussel Surveyors List

Freshwater Mussels of Eastern NC
Identification Workshop: NC
Museum of Natural Sciences

USFWS Endangered Species Act
Section 7 Training

Ecological Training: ODOT

Electrofishing Safety Training:
Midwest Biodiversity Institute

First Responder CPR and AED
Certification

MD Biological Stream Survey
Spring Sampling Training

OSHA 10-Hour General Industry
Safety and Health

40 Hour HAZWOPER Training

Transportation Workers
Identification Credential

Divers Alert Network Oxygen
Provider Certification

PADI & SSI SCUBA Certification

QUALIFICATIONS AND EXPERIENCE

Mr. Spaeth serves as ESI's aquatics manager and malacologist and is responsible for managing and implementing ESI's aquatic services. He has completed literally hundreds of projects including presence/absence, habitat assessment, relocation, and monitoring in both large and small rivers across the eastern U.S. His credentials include listing on multiple states' Qualified Surveyors Lists. He is permitted by the U.S. Fish and Wildlife Service (USFWS) to collect federally listed fish species and Unionid mussels. His expertise includes biological and water quality monitoring, study plan development, federal and state agency coordination, field survey and identification, protocol development and implementation, field team coordination, and morphometric data collection.

In addition to field collection and species identification work, Mr. Spaeth's experience includes data management and assessment. He provides statistical support in examining and developing biological indicators, analyzing and assessing mercury dynamics in aquatic systems, calculating bioaccumulation factors (BAFs), and assists with developing new ambient water quality criteria (AWQC). His experience also includes analyzing a multitude of chemical parameters in the aquatic environment such as metals (e.g. Se, Pb, Cu), nutrients, perfluorinated compounds (PFCs), hormones and sterols, pharmaceuticals and personal care products (PPCPs), phenolic compounds, polychlorinated biphenyls (PCBs), and pesticides. He is proficient with a variety of statistical software programs to perform uni- and multi-variate statistical analyses on limnological datasets and managing large databases.

PROJECTS

Mountain Valley Pipeline

West Virginia and Virginia

Aquatics Manager

Completed and/or managed freshwater mussel surveys at 38 locations and Roanoke logperch habitat assessments at 27 locations along 300-mile natural gas pipeline traversing twelve counties in West Virginia and six counties in Virginia. Prepared study plans; performed surveys; coordinated land access; and Agency coordination with WVDNR, VDGI, and USFWS.

Authored Biological Assessment for four aquatic species including Roanoke logperch (*Percina rex*), James spiny mussel (*Parvaspina collina*), clubshell (*Pleurobema clava*), and snuffbox (*Epioblasma triquetra*). Authored fisheries sections for Resource Report 3 – Fisheries, Vegetation and Wildlife submitted to FERC. Authored aquatic species evaluations in Biological Evaluation prepared on behalf of the U.S. Forest Service.



Virginia Department of Transportation, I-81 Bridge (0081-060-126) Replacement

Virginia

Project Manager

Freshwater mussel surveys and relocations on the New River in Montgomery, Pulaski, and Radford counties, Virginia. Surveys resulted in the collection, tagging, and relocation of 47 state threatened pistolgrrips (*Tritogonia verrucosa*).

Virginia Department of Transportation, SR23 Bridge Crossing

Virginia

Project Manager

Freshwater mussel and snail salvage efforts and fish removals in association with bridge replacement on the North Fork Holston River in Scott County, Virginia.

Virginia Department of Game and Inland Fisheries

Virginia

Biologist

Assisted VDGIF with mark-recapture mussel monitoring project in Craig Creek (Botetourt County), Johns Creek (Craig County), Dicks Creek (Craig County) and Mill Creek (Bath County) in Virginia. Personally collected dozens of live federally endangered James spiny mussels and live Atlantic pigtoe (*Fusconaia masoni*), a state species of concern.

Dominion Transmission, Atlantic Coast Pipeline

Virginia, West Virginia, and North Carolina

Biologist

Prepared study plans, authored technical reports, and completed field surveys for freshwater mussels in Virginia, West Virginia, and North Carolina along proposed 554-mile natural gas transmission mainline and associated laterals.

American Electric Power, Cloverdale-Lexington 500 kV Transmission Line

Virginia

Biologist

Completed surveys for federally listed Roanoke logperch, and James spiny mussel or their preferred habitat in Botetourt and Rockbridge counties, Virginia.

Koppers, Maintenance Dredging

Virginia

Biologist

Completed surveys for federally endangered Roanoke logperch at water intake structure on the Roanoke River in Salem, Virginia. Survey was completed via the use of seining within a temporary silt retention barrier set up for maintenance dredging.

Confidential Client, Emergency Response

Ohio

Project Manager

Over 10.3 miles of underwater transect surveys for freshwater mussels in the Markland Navigational Pool of the Ohio River. Survey was warranted by an inadvertent discharge of diesel fuel into the River. Project involved over 1,500 hours dive time and yielded more than 19,000 live mussels including 49 live federally endangered sheepsnose (*Plethobasus cyphus*) mussels. Responsible for all aspects of project management, agency coordination, and field collections. This was the largest, contiguous, and standardized mussel survey known to occur in the Ohio River.

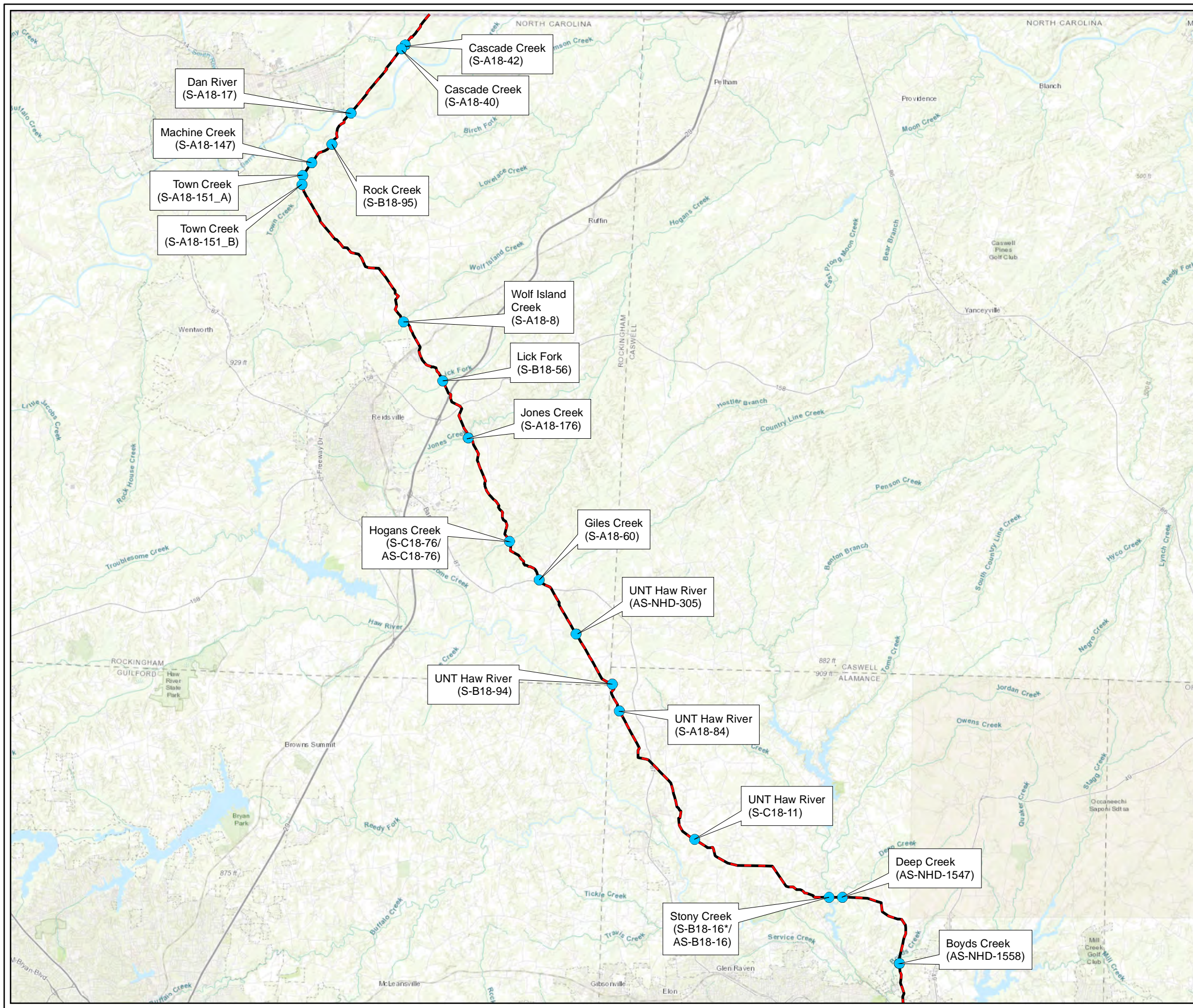
Ohio Department of Natural Resources and USFWS Ohio Field Office

Ohio and West Virginia

Technical Reviewer

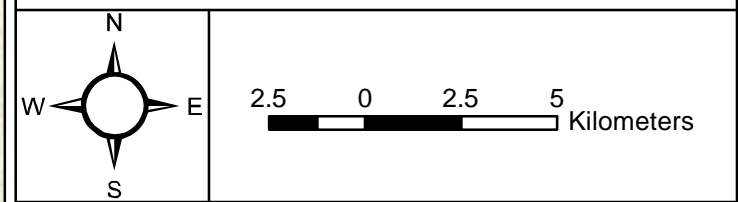
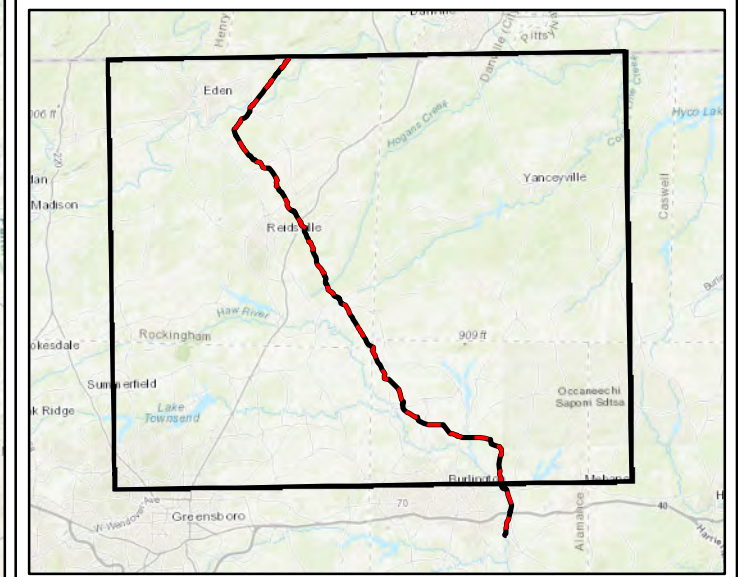
Requested by agencies to provide comment and guidance on West Virginia Mussel Survey Protocol (OMSP) for inclusion in 2015 revision.
els prior to construction.

APPENDIX C
MAP OF MUSSEL SURVEY LOCATIONS



Location of proposed mussel surveys along the proposed MVP Southgate Project in North Carolina.

- Proposed Mussel Survey Location
- Project Centerline



Base Map: ESRI "World Topo Map"; accessed 2/7/2019



**ENVIRONMENTAL SOLUTIONS
& INNOVATIONS, INC.**

Project No. 1219.04

APPENDIX D
SCIENTIFIC COLLECTION PERMITS



Endangered Species Permit

Phone: (888) 248-6834
Fax: (919) 707-0292

North Carolina Wildlife Resources Commission
Regulated Activities Permits Section
1707 Mail Service Center
Raleigh, NC 27699-1700

AUTHORITY

STATUTES

GS 113-331 - 113-337

RULES

15A NCAC 101.0001 - .0005

Page 1 of 1

PERMITTEE/LICENSEE

CASEY D SWECKER
4525 ESTE AVE
CINCINNATI, OH 45232

PERMIT NUMBER

19-ES00405

EFFECTIVE

01/09/2019

EXPIRES

12/31/2019

COUNTY

DISTRICT

TYPE OF PERMIT:

Survey

Print Date: **01/10/2019**

SPECIES AUTHORIZED: COMMON NAME

- Crayfish

- Mussel, Freshwater

AUTHORIZED LOCATION(S):

RIVER BASINS: CHOWAN, ROANOKE, NEUSE, TAR-PAMILICO, CAPE FEAR, LUMBER, HIWASSEE, LITTLE TENNESSEE, FRENCH BROAD, WATAUGA, NEW

CONDITIONS AND AUTHORIZATIONS:

This permit authorizes the capture and temporary possession of the above named species.

Method Authorized: Hand Capture, Dip net, Backpack Electrofishing-crayfish only; Seine, Rock Flipping, Yabby Pump, Baited Lines, Excavations

Activities Authorized: Scuba diving, Tagging

All species must be immediately released unharmed at the site of capture upon completion of data collection.

Permittee must notify and attain permission from appropriate regional Aquatic Wildlife Diversity Coordinator at least 24 hrs in advance of activities in Collection Sensitive Waters.

May collect up to three (3) voucher specimen of any non-federally listed mussel and up to twenty (20) per species per site of crayfish. All vouchered specimen must be placed in the NC Museum of Natural Sciences.

Relict shells of federally listed species may be collected for voucher, and must be placed in the NC Museum of Natural Sciences.

All activities must be supervised by the permittee, or by an authorized subpermittee as designated by the permit holder. All individuals, other than the permittee, conducting activities under this permit must carry a copy of this permit and a letter of authorization from the permittee while engaged in permitted activities.

Issuance of this permit does not constitute permission to conduct these activities on any public or private lands; such permission must be obtained separately from the appropriate landowner or land manager before beginning these authorized activities. This permit neither directly nor by implication grants right of trespass.

A requested amendment to this permit must be submitted in writing.

The validity of this permit is conditioned upon compliance with all applicable local, state, and federal law.

Validity of this permit/license is conditioned upon receipt of a corresponding valid permit issued by the U.S. Fish & Wildlife Service.

Failure to meet any of the conditions specified herein may constitute just cause for revocation of the permit or denial of renewal.

An annual report is due at the time of renewal to be eligible for renewal. The report must be submitted through the online reporting system (<https://ncpaws.org/RAPSReporting>). Failure to submit the report may result in the license not being renewed.

This permit/license is non-transferable and expires at midnight on the above specified expiration date.

ISSUED BY:

TITLE:

Executive Director



Scientific Fish Collecting License

AUTHORITY

STATUTES

113-261, 113-262, & 113-272.4

Phone: (888) 248-6834

Fax: (919) 707-0028

North Carolina Wildlife Resources Commission

Division of Inland Fisheries

MSC 1721

Raleigh, NC 27699-1721

Page 1 of 2

PERMITTEE/LICENSEE

CASEY D SWECKER
ENVIRONMENTAL SOLUTIONS & INNOVATIONS
4525 ESTE AVE
CINCINNATI, OH 45232

PERMIT NUMBER

19-SFC00147

EFFECTIVE

01/09/2019

EXPIRES

12/31/2019**SPECIES/ORGANISMS:**

Mussel; Crayfish

Print Date: **01/11/2019****RIVER BASINS/COUNTIES:**

CAPE FEAR - Alamance, Cumberland, Johnston, Robeson, Rockingham, Sampson

CHOWAN - Northampton

FRENCH BROAD - All Counties

HIWASSEE - All Counties

LITTLE TENNESSEE - All Counties

LUMBER - Cumberland, Robeson

NEUSE - Johnston, Nash, Sampson, Wilson

NEW - All Counties

ROANOKE - Halifax, Northampton, Rockingham

TAR-PAMLICO - Halifax, Nash, Wilson

WATAUGA - All Counties

SAMPLING METHOD:

Electrofishing, Backpack; Net, Dip; Seines; Other; Hook and Line

ASSISTANTS:

ZACH LOUGHMAN, GREG MYERS, ADAM BENSHOFF, AARON PREWITT, DAVID FOLTZ, JOHN SPAETH, RENEA WILSON, TOM JONES, ALYSSA BRADY, MITCHELL KRIEGER, DOUG LOCY, KYLE MCGILL, TOM DICKINSON, TIM SAVIDGE, CHRIS SHEETS, JOHN FRIDELL

CONDITIONS AND AUTHORIZATIONS:

The above licensee is authorized to collect the species/organisms by the sampling methods as listed below without restriction to season, size, or creel limits unless otherwise specified under Special Conditions. These species/organisms may be collected in the River Basins/Counties listed below. Sampling in Collection-Sensitive Waters is not authorized under this license unless specified under Special Conditions or allowed through a Commission-issued Endangered Species Permit. For a current list of Collection-Sensitive Waters, see www.ncwildlife.org/Licensing/fishcollection.aspx. The take or possession of federally or state listed endangered, threatened, or special concern species is not authorized under this license except in conjunction with a valid Endangered Species Permit. The licensee is required to comply with all requirements and laws specified by the U.S. Fish and Wildlife Service and National Marine Fisheries Service as they pertain to federally-listed species. For a current list of federally or state listed endangered, threatened, or special concern species, see www.ncwildlife.org/Licensing/fishcollection.aspx.

This permit/license is non-transferable and expires at midnight on the above specified expiration date.

ISSUED BY:

TITLE:

Chief



Endangered Species Permit

Phone: (888) 248-6834
Fax: (919) 707-0292

North Carolina Wildlife Resources Commission
Regulated Activities Permits Section
1707 Mail Service Center
Raleigh, NC 27699-1700

AUTHORITY

STATUTES

GS 113-331 - 113-337

RULES

15A NCAC 101.0001 - .0005

Page 1 of 1

PERMITTEE/LICENSEE

ADAM BENSHOFF
ENVIRONMENTAL SOLUTIONS & INNOVATIONS
4525 ESTE AVE
CINCINNATI, OH 45232

PERMIT NUMBER

19-ES00539

EFFECTIVE

01/09/2019

EXPIRES

12/31/2019

COUNTY

DISTRICT

TYPE OF PERMIT:

Collection, Survey

Print Date: **01/10/2019**

SPECIES AUTHORIZED: COMMON NAME (SCIENTIFIC NAME)

- Mussel, Alewife floater (*Anodonta imbecilis*)
- Mussel, Dwarf wedge (*Alasmidonta heterodon*)
- Mussel, Green floater (*Lasmigona subviridis*)
- Mussel, Roanoke slabshell (*Elliptio roanokensis*)
- Mussel, Tar River spiny mussel (*Elliptio steinstansana*)
- Mussel, Triangle floater (*Alasmidonta undulata*)
- Mussel, Yellow lance (*Elliptio lanceolata*)
- Mussel, Atlantic pigtoe (*Fusconaia masoni*)
- Mussel, Eastern lampmussel (*Lampsilis radiata radiata*)
- Mussel, Notched rainbow (*Villosa constricta*)
- Mussel, Squawfoot (*Strophitus undulatus*)
- Mussel, Tidewater mucket (*Leptodea ochracea*)
- Mussel, Yellow lampmussel (*Lampsilis cariosa*)

AUTHORIZED LOCATION(S):

CAPE FEAR, CHOWAN, LUMBER, NEUSE, ROANOKE AND TAR-PAMLICO RIVER BASINS

CONDITIONS AND AUTHORIZATIONS:

If a federally listed species is encountered during any relocation effort, all relocation efforts cease immediately, and both NCWRC and USFWS will be contacted within 24 hours.

All activities must be supervised by the permittee, or by an authorized subpermittee as designated by the permit holder. All individuals, other than the permittee, conducting activities under this permit must carry a copy of this permit and a letter of authorization from the permittee while engaged in permitted activities.

Issuance of this permit does not constitute permission to conduct these activities on any public or private lands; such permission must be obtained separately from the appropriate landowner or land manager before beginning these authorized activities. This permit neither directly nor by implication grants right of trespass.

Failure to meet any of the conditions specified herein may constitute just cause for revocation of the permit or denial of renewal.

An annual report is due at the time of renewal to be eligible for renewal. The report must be submitted through the online reporting system (<https://ncpaws.org/RAPSReporting>). Failure to submit the report may result in the license not being renewed.

This permit/license is non-transferable and expires at midnight on the above specified expiration date.

ISSUED BY:

TITLE:

Executive Director



Scientific Fish Collecting License

AUTHORITY

STATUTES

113-261, 113-262, & 113-272.4

Phone: (888) 248-6834

Fax: (919) 707-0028

North Carolina Wildlife Resources Commission

Division of Inland Fisheries

MSC 1721

Raleigh, NC 27699-1721

Page 1 of 1

PERMITTEE/LICENSEE

ADAM BENSHOFF
ENVIRONMENTAL SOLUTIONS & INNOVATIONS
4525 ESTE AVE
CINCINNATI, OH 45232

PERMIT NUMBER

19-SFC00220

EFFECTIVE

01/09/2019

EXPIRES

12/31/2019**SPECIES/ORGANISMS:**

Mussel

Print Date: **01/11/2019****RIVER BASINS/COUNTIES:**

CAPE FEAR - Alamance, Cumberland, Johnston, Robeson, Rockingham, Sampson

CHOWAN - Northampton

LUMBER - Cumberland, Robeson

NEUSE - Johnston, Nash, Sampson, Wilson

ROANOKE - Halifax, Northampton, Rockingham

TAR-PAMLICO - Halifax, Nash, Wilson

SAMPLING METHOD:

Other

ASSISTANTS:

AARON PREWITT, DAVID FOLTZ, JOHN SPAETH, RENE WILSON, TOM JONES, ALYSSA BRADY, MITCHELL KREIGE, DOUG LOCY, KYLE MCGILL, CASEY SWECKER, TOM DICKINSON, TIM SAVIDGE, CHRIS SHEETS, JOHN FRIDELL

CONDITIONS AND AUTHORIZATIONS:

The above licensee is authorized to collect the species/organisms by the sampling methods as listed below without restriction to season, size, or creel limits unless otherwise specified under Special Conditions. These species/organisms may be collected in the River Basins/Counties listed below. Sampling in Collection-Sensitive Waters is not authorized under this license unless specified under Special Conditions or allowed through a Commission-issued Endangered Species Permit. For a current list of Collection-Sensitive Waters, see www.ncwildlife.org/Licensing/fishcollection.aspx. The take or possession of federally or state listed endangered, threatened, or special concern species is not authorized under this license except in conjunction with a valid Endangered Species Permit. The licensee is required to comply with all requirements and laws specified by the U.S. Fish and Wildlife Service and National Marine Fisheries Service as they pertain to federally-listed species. For a current list of federally or state listed endangered, threatened, or special concern species, see www.ncwildlife.org/Licensing/fishcollection.aspx.

SPECIAL CONDITIONS:

This permit/license is non-transferable and expires at midnight on the above specified expiration date.

ISSUED BY:

TITLE:

Chief

Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Monday, February 25, 2019 6:31 PM
To: Troy Andersen; Ernst Aschenbach; rr ProjectReview (DGIF); Hypes, Rene'
Cc: John_Ellis@fws.gov; alex.miller@nexteraenergy.com; Stephanie Frazier
Subject: Southgate VA Mussel Study Plan
Attachments: 1219 MVP Southgate 2019 VA Mussel Study Plan_20190221.pdf

Troy and Ernie, by now hopefully you received a hard copy of the attached VA mussel study plan for the Southgate project.

Rene, I received your message that you received it.

I am writing to provide a digital copy as well (attached). Please forward this to anyone else in your office that would like to review.

Please feel free to call to discuss, or provide comments by email. I look forward to hearing from you.
Megan

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587
mstahl@equitransmidstream.com
**Please note my new email address*



STUDY PLAN:

FRESHWATER MUSSEL (UNIONIDAE) SURVEYS ALONG THE PROPOSED SOUTHGATE PROJECT IN VIRGINIA

22 February 2019

Submitted to:

Mr. Troy Andersen
U.S. Fish & Wildlife Service
Virginia Field Office
6669 Short Lane
Gloucester, VA 23061

Mr. Ernie Aschenbach & Mr. Brian Watson
Virginia Department of Game
and Inland Fisheries
4010 West Broad Street
Richmond, VA 23230

Prepared for:



Prepared by:



Environmental Solutions & Innovations, Inc.

4525 Este Avenue
Cincinnati, Ohio 45232
Phone: (513) 451-1777
Fax: (513) 451-3321

Ravenna, OH • Indianapolis, IN • Orlando, FL • Springfield, MO • Pittsburgh, PA • Teays Valley, WV

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1.0 Introduction

1.1 Project Description

Mountain Valley Pipeline, LLC (Mountain Valley) is seeking a Certificate of Public Convenience and Necessity (Certificate) from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (Project). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina (Appendix A; Figure 1). Mountain Valley proposes to construct an approximate 73-mile natural gas pipeline with associated aboveground facilities and access roads to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States. To the extent practicable, Mountain Valley has collocated the new pipeline parallel to existing utility corridors, trails, and roads. Subject to receipt of the required permits and regulatory approvals, Mountain Valley anticipates construction of the Project to commence in spring of 2020.

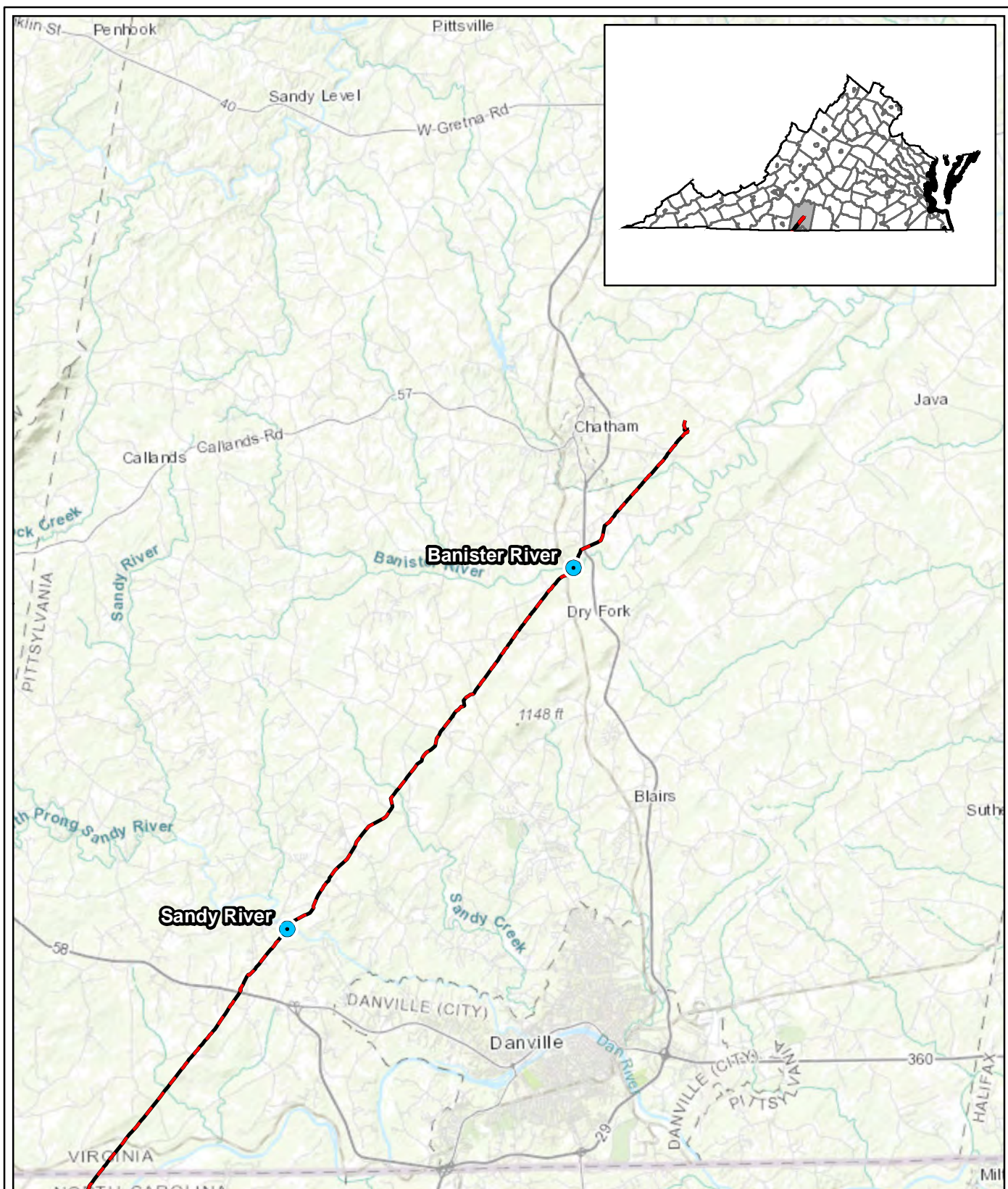
The proposed Project will interconnect with and receive gas from the existing Mountain Valley Pipeline near Chatham, Virginia, and the East Tennessee Natural Gas, LLC. pipeline near Eden, North Carolina, and will deliver gas to connections with customers' existing facilities in Eden and Graham, North Carolina. The Project is a stand-alone development from the Mountain Valley Pipeline and has an expected in-service date of late 2020.

1.2 Regulatory Setting

The proposed Project traverses two streams that potentially harbor state listed and/or federally listed mussel species. Environmental Solutions & Innovations, Inc. (ESI) was contracted on behalf of Mountain Valley to conduct desktop and on-site review and analysis of streams crossed by the Project to determine where in-stream surveys are required, and to conduct in-stream surveys at these identified streams.

Field surveys are carried out under ESI's current scientific mussel collection permits:

- USFWS Federal Fish and Wildlife Permit #TE02373A-13
- Virginia Scientific Collection Permit #062222 and Virginia Threatened/Endangered Species Permit (renewal applied for but not yet received)



- Proposed Stream Crossing Location
- Project Centerline

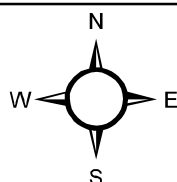


Figure 1. Location of the proposed MVP Southgate Project in Virginia.

Project No.
1219.04

3 0 3 6 KM
Base Map: USGS Topographic Map



ENVIRONMENTAL SOLUTIONS
& INNOVATIONS, INC.

1.2.1 Federal Regulations

The Federal Endangered Species Act (ESA) [16 U.S.C. 1531 *et seq.*] was codified into law in 1973. This law provides for the listing, conservation, and recovery of threatened and endangered species of plants and wildlife. Under the ESA, the U.S. Fish and Wildlife Service (USFWS) is mandated to monitor and protect listed species. Many states enacted similar laws.

Section 7(a) (2) of the ESA states that each federal agency shall ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of a listed species or result in destruction or adverse modification of designated critical habitat. Federal actions include (1) expenditure of federal funds for roads, buildings, or other construction projects, and (2) approval of a permit or license, and the activities resulting from such permit or license. Compliance is required regardless of whether involvement is apparent, such as issuance of a federal permit, or less direct, such as federal oversight of a state-operated program.

Section 9 of the ESA prohibits the “take” of listed species. “Take” is defined by the ESA as “*to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect*” [16 U.S.C. 1532(19)]. USFWS further defines “harm” to include significant habitat modification or degradation [50 CFR §17.3]. Actions of federal agencies that do not result in jeopardy or adverse modification, but that could result in a take, must also be addressed under Section 7.

The Project is also regulated by FERC who requires coordination with the USFWS and other federal and state agencies.

1.2.2 Virginia Regulations

The Virginia Endangered Species Act (29.1-563 - 29.1-570) provides that Virginia Department of Game and Inland Fisheries (VDGIF) is the state regulatory authority over federally or state listed endangered or threatened fish and wildlife in the Commonwealth, defining fish or wildlife as “. . . any member of the animal kingdom, vertebrate or invertebrate, except for the class Insecta, and includes any part, products, egg, or the dead body or parts thereof.” It prohibits the taking, transportation, processing, sale, or offer for sale within the Commonwealth of any fish or wildlife listed as a federally endangered or threatened species, except as permitted by the Board of Game and Inland Fisheries for zoological, educational, scientific, or captive propagation for preservation purposes. State-listed species are provided the same protection per VDGIF Regulation 4 VAC 15-20-130.

The law further authorizes the Board of the VDGIF to adopt the federal list of endangered and threatened species, to declare by regulation that species not listed by the federal government are endangered or threatened in Virginia, and to prohibit by regulation the taking, transportation, processing, sale, or offer for sale of those species. Implementing regulations pursuant to this authority (4 VAC 15-20-130 through 140) further define “take” and other terms similarly to the federal ESA.

The proposed Project crosses streams that may harbor both state and federally listed mussel species. Although the Project is not anticipated to traverse streams supporting populations of federally listed mussels in Virginia, state-listed mussels may be encountered (e.g., *Lasmigona subviridis*).

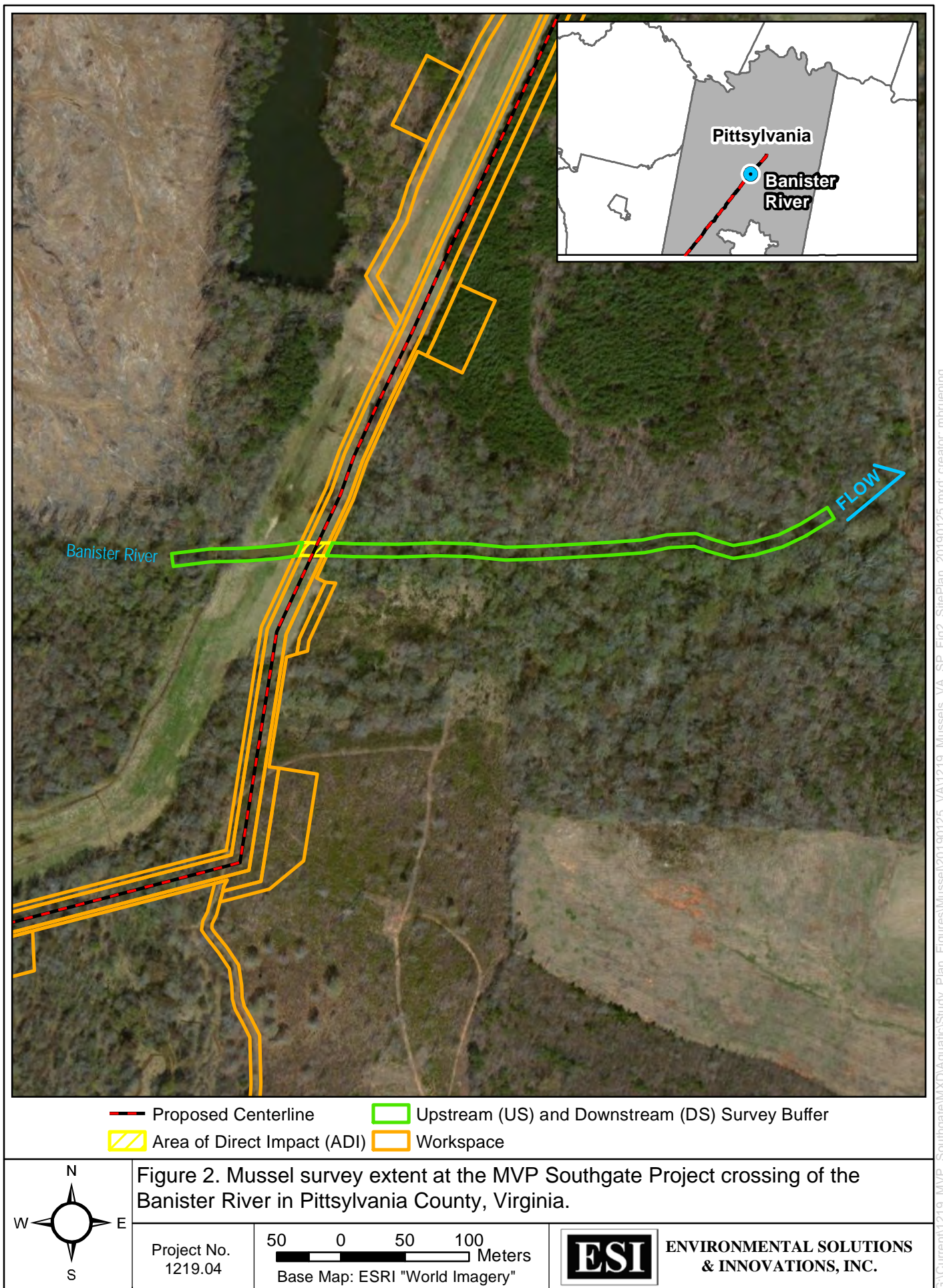
The Dan River is the only basin traversed by the proposed Project in Virginia and comprises two major watersheds: Banister River and Dan River watersheds. The Banister and Sandy rivers are the two largest waterbodies traversed by the Project in Virginia and, per VDGIF correspondence (verbal correspondence on 25 September 2018), abbreviated mussel surveys are anticipated at these Project stream crossings. (Figures 2 and 3). Unless otherwise directed, neither site assessments, abbreviated freshwater mussel surveys, nor mussel relocation efforts are proposed at any other Project stream crossings in Virginia.

2.0 Methods

Abbreviated mussel surveys and relocation efforts follow the USFWS and VDGIF DRAFT Freshwater Mussel Survey Guidelines for Virginia (dated 22 June 2015) and must be conducted within the permissible mussel survey field season: 1 April to 31 October.

2.1 Abbreviated Mussel Surveys

Abbreviated mussel surveys are completed at streams identified by VDGIF or those potentially containing mussels and/or suitable habitat (Table 1). Qualitative survey efforts extend 100 meters upstream and 400 meters downstream of the Project footprint at each crossing. Depending on water depth, snorkeling (<1 meter deep) or scuba/surface supply air (>1 meter deep) are used to survey for mussels. Surveyors use their hands and fingertips to fan the top level of substrate and rake loose sediments to search for embedded mussels. Surveyors overturn large flat rocks and search beneath them where mussels could reside. Location, species counts, survey method (i.e. snorkel, scuba, surface supply), and search efforts are recorded.



G:\Current\1219_MVP_Southgate\MXD\Aquatic\Study_Plan_Figures\Mussel\20190125_VA1219_Mussels_VA_SP_Fig2_SitePlan_20190125.mxd; creator: mbruening

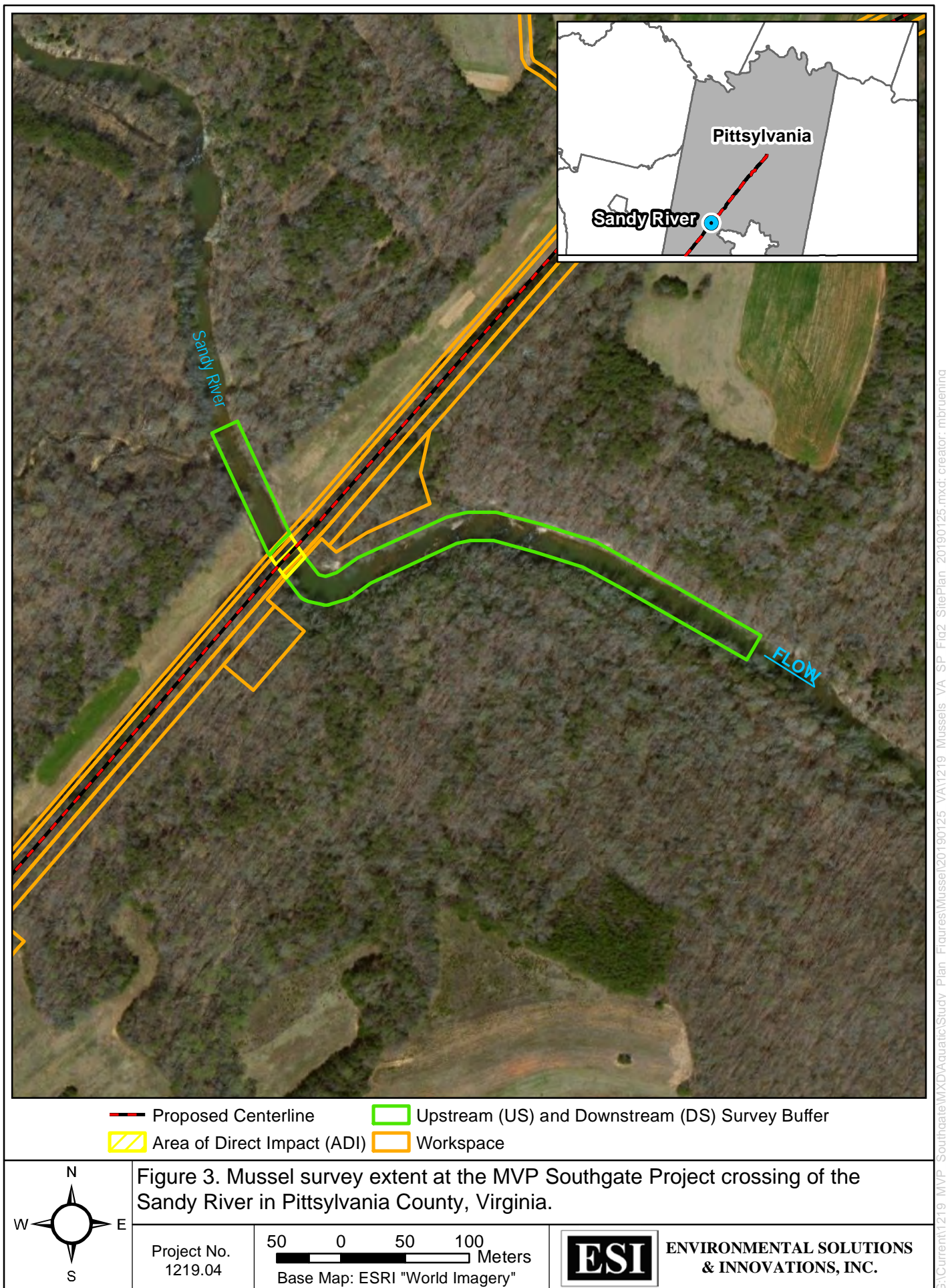


Table 1. List of streams where abbreviated mussel surveys are proposed along MVP Southgate alignment in Pittsylvania County, Virginia.

Stream Name	County	Crossing Type	Drainage Area (mi ²)	Strahler Stream Order	Latitude	Longitude
Banister River	Pittsylvania	Pipeline	68.6	4	36.774165	-79.399252
Sandy River	Pittsylvania	Pipeline	102.0	5	36.635579	-79.540174

2.2 Relocations

Relocation efforts are determined based on the results of abbreviated surveys, in coordination with the USFWS and VDGIF, and occur immediately in advance of site-specific, instream construction. Standard mussel relocation protocols are followed as outlined below:

- The first relocation survey is completed within 30 to 45 days of in-stream construction activities and at least seven days prior to the second relocation survey.
- The second relocation survey is completed within 30 days of in-stream construction activities and at least seven days after the first relocation survey.
- All relocation surveys include a minimum of two passes with a target relocation of 80 percent of the initial number of mussels collected. If on the second pass, more than 20 percent of the initial number of mussels is collected, additional passes are conducted until no more than 20 percent of the initial number of mussels is collected.
- If a state-listed species is found, continual passes are conducted until no listed species are found on the final pass. If repeated passes result in continual collection of state-listed species, survey techniques are modified based on recommendations from VDGIF.

The location of all relocated mussels is documented with GPS coordinates, and all state-listed species are tagged in the event future monitoring activities are warranted.

3.0 Schedule

Mussel survey efforts in the Banister and Sandy rivers will be conducted during the 2019 mussel survey season and upon written receipt of Study Plan concurrence (i.e., letter or email) from the USFWS Virginia Field Office and VDGIF. The Project is currently in the planning stages. Mussel relocation efforts (if necessary) will occur prior to site-specific instream construction activities and is consequently dependent on the progress of the Project permitting and construction schedule.

4.0 Reporting

ESI will prepare a comprehensive report detailing all survey efforts (including photos) and individual reports of findings for each abbreviated mussel occupancy survey. The report follows a scientific format and includes a description of the regulatory setting requiring the field studies, background information on the Project location, survey methods, results, and discussion. The text of this report is augmented with GIS maps where appropriate, copies of field data sheets, and representative photographs. Reports are submitted to VDGIF and USFWS for review and approval prior to Project construction activities.

5.0 Requests for Agency Concurrence

Please consider this Study Plan a request for site-specific authorization to address mussel-related concerns in Virginia along the length of the Project and access roads within the appropriated mussel survey field season.

ESI plans to conduct mussel abbreviated mussel surveys at two streams crossed by the Project including the Banister and Sandy rivers.

In summary, ESI seeks:

- VDGIF and USFWS (VA Field Office) approval to commence abbreviated mussel surveys within the 1 April to 31 October 2019 mussel survey field season.
- Confirmation and guidance that neither site assessments nor abbreviated freshwater mussel surveys are warranted at any other Project stream crossings.
- VDGIF and USFWS (VA Field Office) confirmation that results of survey data collected on a specific site will be considered valid for two years from the date the survey was conducted.

Stephanie Frazier

From: Hypes, Rene' <rene.hypes@dcr.virginia.gov>
Sent: Tuesday, February 26, 2019 1:38 PM
To: Stahl, Megan D.
Cc: Bulluck, Jason; Weber Joseph xpg48711; Miller, Alex; Stephanie Frazier
Subject: Re: [EXTERNAL] Re: MVP Southgate Project Update

Hi Megan,

Thank you for your follow-up email and information.

Assuming presence of Piedmont barbara's-buttons (*Marshallia obovata* var. *obovata*, G4G5TNR/S1/NL/NL), Downy phlox (*Phlox pilosa*, G5/S2/NL/NL) and American Bluehearts (*Buchnera americana*, G5?/S1S2/NL/NL) along the entire pipeline will most likely include areas that do not support natural heritage resources. As indicated in the [FERC Plan](#), one of the environmental inspector's responsibilities include "Verifying the location of signs and highly visible flagging marking the boundaries of **sensitive resource areas...**". In order to identify where these sensitive resource areas are along the pipeline and avoid them, DCR continues to recommend a rare plant survey be conducted for the project in the growing season. According to the Flora of Virginia, the survey windows in Virginia for these species are as follows: Piedmont Barbara's-buttons (mid-May through early June), Downy phlox (April through May) and American bluehearts (July to early September). For additional information, please contact John Townsend, DCR botanist at John.Townsend@dcr.virginia.gov or 804-225-4855.

As the seed mixes are not currently available for review, in addition to inclusion of the DCR Invasive Species List as part of the Exotic and Invasive Plant Species Control Plan, DCR continues to recommend the ROW restoration and maintenance practices planned include appropriate revegetation using native species in a mix of grasses and forbs, robust monitoring and adaptive management plan to provide guidance if initial revegetation efforts are unsuccessful or if invasive species outbreaks occur.

Please complete and submit the [information services order form](#) on-line by checking the box for a Custom NHR Report and including "this is a follow-up review for the MVP Southgate project" in the project description. Upon checking the box that you accept the conditions and entry of contact information the form can be submitted by clicking on the submit button below the human check field.

Please let me know if you have any additional questions and thank you for the opportunity to provide input for this project.

Rene'

On Mon, Feb 25, 2019 at 6:51 PM Stahl, Megan D. <MStahl@equitransmidstream.com> wrote:

Hi Rene',

Thank you for your emails from Thursday and today. In regards to your requests I am providing the following information.

VA state rare Piedmont plant species (American bluehearts, downy phlox, and Piedmont Barbara's-button) are addressed in the 2018 federal plants survey report (let me know if you need another copy). In summary, the Project assumes that Barbara's buttons, downy phlox and American bluehearts are present and impacts will be minimized by

following the FERC [Plan and Procedures](#) (hyperlinks) and the Project Exotic and Invasive Plant Species Control Plan. I will address your comment regarding the Exotic and Invasive Plant Species Control Plan to include and reference the entire [VA DCR Invasive Species List](#), not only the medium and high invasive species in Table 1 (pages 2-4) of the plan.

Surveys for freshwater mussels in the Banister River are addressed in the VA Mussel Study Plan (which you now have). As requested, upon completion of all surveys, the Project will provide DCR with a copy of the survey reports.

Seed mixes to be used during restoration are still in development. Upon completion I will provide the proposed seed mixes for your review. In the meantime, the Project welcomes your input.

Do you need me to submit the information services order form to your attention to allow you to invoice the Project?

Please let me know if you have additional questions or feedback.

Thank you,

Megan

From: Hypes, Rene' <rene.hypes@dcv.virginia.gov>

Sent: Monday, February 25, 2019 3:23 PM

To: Stahl, Megan D. <MStahl@equitransmidstream.com>

Cc: Bulluck, Jason <jason.bulluck@dcv.virginia.gov>; Weber Joseph xpg48711 <joseph.weber@dcv.virginia.gov>; Miller, Alex <Alex.Miller@nexteraenergy.com>; Stephanie Frazier <SFrazier@envsi.com>

Subject: [EXTERNAL] Re: MVP Southgate Project Update

Hi Megan,

I am confirming the receipt of the Study Plan for the Freshwater Mussel Surveys Along the Proposed Southgate Project in Virginia on Friday, Feb. 22, 2019. Upon completion of all surveys, DCR requests a copy of the survey reports. In addition, DCR recommends the Resource Report 3-Fish, Wildlife-Appendix 3-B January 2019 Exotic and Invasive Plant Species Control Plan include and reference the entire [VA DCR Invasive Species List](#) not only the medium and high invasive species in Table 1 (pages 2-4) of the plan.

Please note, in order to fund soft money staff working on this project we will need to invoice your company for additional follow-up information and review. An information services order form can be found [here](#) for your convenience and the custom report hourly rate is \$60. Please let me know if you have any questions.

Thank you.

Rene'

On Thu, Feb 21, 2019 at 2:19 PM Hypes, Rene' <rene.hypes@dcr.virginia.gov> wrote:

Megan,

I have some follow-up questions in regards to your request.

In looking at the documents posted on the link (<http://www.mvpsouthgate.com/news-info/>) provided in a previous email for Resource Report 3 (11-2-2018) , the document posted for both Resource Report 3 and Resource Report 3A is the same, Resource Report 3A. The Resource Report 3A provides survey methods for rare plants (Smooth Coneflower and Small whorled pogonia in NC), bats in VA and NC, and freshwater mussels in NC but does not reference surveys for freshwater mussels in the Bainster River in VA and/or VA state rare Piedmont plant species (American bluehearts, downy phlox, and Piedmont Barbara's-button). Is there an update to Resource Report 3 available that you could send to us for review?

Resource Report 3-Fish, Wildlife and Vegetation -Appendix 3-B

The January 2019 Exotic and Invasive Plant Species Control Plan includes a reference to seed mixes (*3. Seed mixes used during restoration will include native species within the seed mix*). Are these seed mixes available for review?

Thank you.

Rene'

On Wed, Feb 20, 2019 at 3:58 PM Stahl, Megan D. <MStahl@equitransmidstream.com> wrote:

Hi Rene',

As I mentioned in my voicemail, I am reaching out to check in on the Southgate project. Specifically:

1. Have you had time to review Resource Report 3 (link below) to confirm whether you agree with the Project's approach to minimizing impacts on American bluehearts, downy phlox, and Piedmont Barbara's-button?
2. The attached Exotic and Invasive Plant Species Control Plan was filed with FERC on January 24. Do you have any comments, or can you provide approval of the Plan?

Please feel free to call to discuss (note that my contact information below has changed).

Thank you,

Megan

Megan Stahl

Manager Environmental

2200 Energy Drive

Canonsburg, PA 15317

T 412-553-7783

C 412-737-2587

mstahl@equitransmidstream.com

****Please note my new email address***



From: Stahl, Megan D.

Sent: Tuesday, November 06, 2018 5:09 PM

To: [John Ellis@fws.gov](mailto:John_Ellis@fws.gov); Troy Andersen <troy_andersen@fws.gov>; 'Stancil, Vann F' <vann.stancil@ncwildlife.org>; 'Ernst Aschenbach' <ernie.aschenbach@dgif.virginia.gov>; 'rr ProjectReview (DGIF)' <projectreview@dgif.virginia.gov>; 'Hypes, Rene' <rene.hypes@dcr.virginia.gov>; 'Bulluck, Jason' <jason.bulluck@dcr.virginia.gov>; Weber Joseph xpg48711 <joseph.weber@dcr.virginia.gov>

Cc: Miller, Alex <Alex.Miller@nexteraenergy.com>; Stephanie Frazier <SFrazier@envsi.com>

Subject: MVP Southgate Project Update

Good evening,

On behalf of the MVP Southgate project team, I am reaching out to notify you that we filed our formal Application today requesting certification of public convenience and necessity from the Federal Energy Regulatory Commission. We will continue to update our company [webpage](#) throughout the process with pertinent FERC filings. The entire Application can be found on our docket (CP19-14-000) in the FERC's eLibrary.

Attached you will find the public news release and an updated kmz file of the MVP Southgate Project workspace that was used for the Application. MVP Southgate will continue to update stakeholders throughout the FERC process. Please feel free to reach out to me with any questions or concerns.

Please also feel free to forward this email to others within your agency that would be interested in this information.

Thank you,

Megan

Megan Stahl

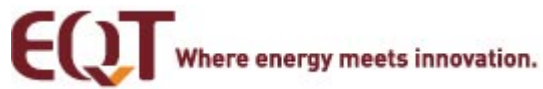
Permitting Supervisor

625 Liberty Avenue, Suite 1700

Pittsburgh, PA 15222

T 412-553-7783

C 412-737-2587



www.eqt.com

--

S. Rene' Hypes

Project Review Coordinator

Department of Conservation and Recreation

Division of Natural Heritage

600 East Main Street, 24th Floor

Richmond, Virginia 23219

[804-371-2708](tel:804-371-2708) (phone)

[804-371-2674](tel:804-371-2674) (fax)

rene.hypes@dcr.virginia.gov

Conserving VA's Biodiversity through Inventory, Protection and Stewardship

<http://www.dcr.virginia.gov/natural-heritage>

--

Stephanie Frazier

From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Monday, March 04, 2019 3:05 PM
To: alex.miller@nexteraenergy.com
Cc: Stephanie Frazier
Subject: FW: [External] MVP Southgate Project Update

From: Robinson, Laura <Laura.Robinson@ncdcr.gov>
Sent: Monday, March 04, 2019 3:03 PM
To: Stahl, Megan D. <MStahl@equitransmidstream.com>
Subject: RE: [External] MVP Southgate Project Update

Hi Meghan,

I'm recovering from being sick last week, but I've finally had a chance to review the documents. I've looked at the pipeline maps and our locations of Cliff Stonecrop (*Sedum glaucophyllum*) in Rockingham County. Although the pipeline is nearby these populations, the proposed work will not impact any known rare plant populations. I have reviewed the Exotic and Invasive Species Control plan and implementing this plan will help to protect any natural areas or rare species within the vicinity from the spread of invasive species. The NC Natural Heritage Program is not a regulatory agency, and we don't provide official approval of documents, we mainly provide information from our database about the locations of rare species and natural areas. However, I do think that the invasive species control plan is sufficient for the work to be done in protecting rare species and natural areas in the vicinity.

Please let me know if you have any other questions.

Thanks,

LAURA ROBINSON

Botanist, Natural Heritage Program
Division of Land and Water Stewardship

121 W. Jones St, MSC 1651 Raleigh, NC 27699-1651
919 707 8647 office

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From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Monday, February 25, 2019 6:55 PM
To: Robinson, Laura <Laura.Robinson@ncdcr.gov>
Cc: Buchanan, Misty <misty.buchanan@ncdcr.gov>; alex.miller@nexteraenergy.com; Stephanie Frazier <SFrazier@envsi.com>
Subject: RE: [External] MVP Southgate Project Update

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Hi Laura,

Thank you for your email. Cliff stonecrop is mentioned in:

Section 3.4.2.4 (page 3-24):

*Based on initial consultation with NCNHP, there are also records of one state-listed rare plant species, cliff stonecrop (*Sedum glaucophyllum*), near the Project area (Agency Consultations [see Resource Report 1, Appendix 1-K]). No surveys for cliff stonecrop have been requested and therefore, are not planned. Any potential impacts to cliff stonecrop will be avoided by implementing the FERC Plan and Procedures as well as the Exotic and Invasive Species Control Plan provided in Appendix 3-B.*

Table 3.4-3:

Cliff Stonecrop	Rockingham, NC	NCNHP	Habitat assessment and consultation ongoing to determine survey effort.	No survey requested or planned. Potential impacts will be avoided by implementing Plan & Procedures and Invasive Species Plan.
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The reference to the Plan & Procedures above is hyperlinked, and I provided a copy of the Exotic and Invasive Plant Species Control Plan to your attention already, but please let me know if you need me to send it again.

Please feel free to reach out to me if you need additional information. I look forward to hearing your feedback.

Megan

From: Robinson, Laura <Laura.Robinson@ncdcr.gov>
Sent: Friday, February 22, 2019 4:36 PM
To: Stahl, Megan D. <MStahl@equitransmidstream.com>
Cc: Buchanan, Misty <misty.buchanan@ncdcr.gov>; alex.miller@nexteraenergy.com; Stephanie Frazier <SFrazier@envsi.com>
Subject: RE: [External] MVP Southgate Project Update

Hi Megan,

Thanks for allowing us to provide comments. I'm having trouble finding the information in all the attachments about Cliff Stonecrop. I assume this is referencing *Sedum glaucophyllum* (state Significantly Rare). Can you point me to specifically where I can find the information about the impacts to this species?

Thank you,

LAURA ROBINSON

Botanist, Natural Heritage Program
Division of Land and Water Stewardship

121 W. Jones St, MSC 1651 Raleigh, NC 27699-1651
919 707 8647 office



From: Stahl, Megan D. <MStahl@equitransmidstream.com>
Sent: Wednesday, February 20, 2019 4:17 PM
To: Robinson, Laura <Laura.Robinson@ncdcr.gov>
Cc: Buchanan, Misty <misty.buchanan@ncdcr.gov>; alex.miller@nexteraenergy.com; Stephanie Frazier <SFrazier@envsi.com>
Subject: [External] MVP Southgate Project Update

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Hi Laura,

I am reaching out to you regarding the Southgate Project. Last year our consultant on the project (Stephanie Frazier, ESI) spoke to Misty and she recommended contacting you regarding plant species. My specific questions are:

1. The Southgate Project filed our formal Application on November 6, 2018 requesting certification of public convenience and necessity from the Federal Energy Regulatory Commission. We continue to update our company [webpage](#) throughout the process with pertinent FERC filings. The entire Application can be found on our docket (CP19-14-000) in the FERC's eLibrary. Have you had time to review, specifically Resource Report 3 to confirm whether you agree with the Project's approach to minimizing impacts on Cliff Stonecrop?
2. The attached Exotic and Invasive Plant Species Control Plan was filed with FERC on January 24. Do you have any comments, or can you provide approval of the Plan?

Please feel free to contact me to discuss.

Thank you,
Megan

Megan Stahl
Manager Environmental
2200 Energy Drive
Canonsburg, PA 15317
T 412-553-7783
C 412-737-2587
mstahl@equitransmidstream.com
****Please note my new email address***





MVP Southgate Project

Docket No. CP19-14-000

Attachment 53-1

March 2019

Table 53-1

Taxa	Species and Status /a	Known Occurrences				Extent of Appropriate Habitat		Consideration of Impacts / Effects		Avoidance & Minimization Measures (If Found)	source info (web link, citation, agency letter or database, etc)
		Counties Known Occurrence (Virginia and North Carolina only)	Waterbodies in VA or NC (aquatic spp)	Known local population level	Nearest Known Occurrence	MP begin (approx)	MP end (approx)	Potential Direct Impacts / Effects (if Found)	Likelihood of Direct Impacts / Effects (if Found)		
Arthropod	Carolina ladle crayfish (<i>Cambarus davidi</i>) NC-SR	NC: Wake, Caswell, Rockingham, Orange, Chatham, Alamance, Person, Granville, Guilford, Durham, Harnett, Stokes	Neuse River, Cape Fear River, Tar-Pamlico River, Roanoke River basins	Unknown	< 6 miles (NC collections info)	26.1	73.1	Crushing of individuals; stream disturbance / destruction of habitat	Probable if inhabited streams are impacted by instream dewatering and disturbances	Limit instream disturbance to that required to install pipeline crossings (typical impact width approximately 25 ft; but could extend to 75 ft). Implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans.	collections.naturalsciences.org, NCWRC comment letter, http://dpr.ncparcs.gov/crayfish/checklist_pdf.php
	Greensboro burrowing crayfish (<i>Cambarus catagius</i>) NC-SC	NC: Guilford	Yadkin- Pee Dee River, Cape Fear	Unknown	<10 miles (NC collections info)	48.4	73.1	Crushing of individuals; stream disturbance / destruction of habitat	Probable if inhabited streams are impacted by instream dewatering and disturbances	Limit instream disturbance to that required to install pipeline crossings (typical impact width approximately 25 ft; but could extend to 75 ft). ATWS at least 50 ft from stream crossings where practicable. Implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans.	collections.naturalsciences.org, NCWRC comment letter, http://dpr.ncparcs.gov/crayfish/checklist_pdf.php
Amphibian	Four-toed salamander (<i>Hemidactylum scutatum</i>) NC-SC	<u>NC Historical:</u> Alamance, Cumberland, Duplin, Henderson, Polk (NC NHP) <u>NC Current:</u> Avery, Bladen, Buncombe, Chatham, Cherokee, Durham, Franklin, Gates, Graham, Granville, Guilford, Macon, McDowell, Montgomery, Moore, Nash, Orange, Pender, Person, Randolph, Rockingham, Stanly, Stokes, Surry, Wake, Wilkes (NC NHP) <u>VA "likely":</u> Albemarle, Amelia, Amherst, Arlington, Bath, Bland, Brunswick, Buchanan, Carroll, Clarke, Craig, Culpeper, Dickenson, Essex, Franklin, Goochland, Grayson, Greene, Greenville, Halifax, Hanover, Isle of Wight, King George, Lee, Loudoun, Louisa, Nelson, Orange, Patrick, Pittsylvania, Prince Edward, Prince George, Pulaski, Rappahannock, Roanoke, Rockbridge, Russell, Smyth, Southampton, Spotsylvania, Surry, Sussex, Tazewell, Warren, Washington, Wise, Alexandria City, Bedford City, Charlottesville City, Chesapeake City, Clifton Forge City, Colonial Heights City, Covington City, Fairfax City, Falls Church City, Fredericksburg City, Harrisonburg City, Hopewell City, Lynchburg City, Manassas City, Manassas Park City, Martinsville City, Norfolk City, Petersburg City, Poquoson City, Portsmouth City, Radford City, Richmond City, Roanoke City, Salem City, Staunton City, Suffolk City, Waynesboro City, Williamsburg City, Winchester City (VAFWIS) <u>VA Current:</u> Accomack, Alleghany, Appomattox, Augusta, Bedford, Botetourt, Buckingham, Campbell, Caroline, Charles City, Charlotte, Chesterfield, Cumberland, Dinwiddie, Fairfax, Fauquier, Floyd, Fluvanna, Frederick, Giles, Gloucester, Henrico, Henry, Highland, James City, King and Queen, King William, Lancaster, Lunenburg, Madison, Mathews, Mecklenburg, Middlesex, Montgomery, New Kent, Northampton, Northumberland, Nottoway, Page, Powhatan, Prince William, Richmond, Rockingham, Scott, Shenandoah, Stafford, Westmoreland, Wythe, York, Hampton City, Newport News City, Virginia Beach City (VAFWIS)	Typically terrestrial, inhabit moist areas throughout the year and may use waterbodies during breeding season	Unknown	NC: Alamance (historical - NCNHP), Guilford & Rockingham (current - NCNHP) VA: Pittsylvania ("likely" - VAFWIS)	0	73.1	Crushing of individuals; disturbance of habitat	Probable if inhabited wetlands are impacted	Implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans.	https://vafwis.dgif.virginia.gov/fwis/?Menu=Home.Species+Information https://collections.naturalsciences.org/
	Mole salamander (<i>Ambystoma talpoideum</i>) VA-W(II); NC-SC	<u>NC Historical:</u> Alleghany, Montgomery, Pitt, Richmond, Wake (NC NHP) <u>NC Current:</u> Buncombe, Cherokee, Davidson, Granville, Guilford, Henderson, Macon, McDowell, Orange, Person, Polk, Rockingham, Rowan, Stanly, Surry, Transylvania, Union, Yadkin (NC NHP) <u>VA Current:</u> Amherst, Appomattox, Buckingham, Campbell, Charlotte, Nelson, Pittsylvania (VAFWIS)	Typically terrestrial, inhabit moist areas throughout the year and may use waterbodies during breeding season	Unknown	NC: Guilford and Rockingham (current - NCNHP) VA: Pittsylvania (current - VAFWIS)	0	73.1	Crushing of individuals; disturbance of habitat	Probable if inhabited wetlands are impacted	Impacts to ponds are completely avoided. Impacts to wetlands are minimized via Implementation of FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans.	https://vafwis.dgif.virginia.gov/fwis/?Menu=Home.Species+Information https://collections.naturalsciences.org/

Taxa	Species and Status /a	Known Occurrences				Extent of Appropriate Habitat		Consideration of Impacts / Effects			source info (web link, citation, agency letter or database, etc)
		Counties Known Occurrence (Virginia and North Carolina only)	Waterbodies in VA or NC (aquatic spp)	Known local population level	Nearest Known Occurrence	MP begin (approx)	MP end (approx)	Potential Direct Impacts / Effects (if Found)	Likelihood of Direct Impacts / Effects (if Found)	Avoidance & Minimization Measures (If Found)	
Fishes	Cape Fear shiner (<i>Notropis mekistocholas</i>) FE; NC-E	NC: Chatham, Chatham-Lee, Lee-Moore, Moore, Harnett, and Randolph Counties	Cape Fear River, Deep River, Haw River, Rocky River	N/A	Chatham, Randolph Counties	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	USFWS Raleigh Office list of TE species (April 17, 2018), collections.naturalsciences.org, Fishbase, Fish Map, collections.naturalsciences.org, Fishbase, Fish Map, 1219 NC Fish Study Plan, collections.naturalsciences.org
	Riverweed Darter (<i>Etheostoma podostemone</i>) NC-SC	Va: Montgomery, Franklin, Pittsylvania, Patrick, Bedford, Campbell, Bedford-Roanoke, NC: Rockingham, Stokes, Caswell	Roanoke River basin including Banister and Dan River watersheds (VA and NC)	Unknown	<0.5 miles (Fishmap)	0	48.3	Stream disturbance / temporary habitat degradation	Probable if inhabited streams are impacted	Fishes are collected and relocated outside direct impact areas immediately prior to construction.	
	Roanoke logperch (<i>Percina rex</i>) FE; VA-E; NC-E	Va: Pittsylvania, Franklin, Montgomery, Roanoke NC: Rockingham	Dan River, Cascade Creek, Wolf Island Creek, Pigg River, Smith River, Mayo River, Roanoke River, North Fork Roanoke River, South Fork Roanoke River basins	Unknown	<1 mile	27.1	33.1	Stream disturbance / temporary habitat degradation	No impact in steams with known occupancy due to complete avoidance of instream impacts; probable habitat impacts if unknown occupancy streams are impacted	Project will cross the Dan River, Cascade Creek, and Wolf Island Creek via HDD or conventional bore and implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans.	
Mammals	Eastern big-eared bat (<i>Corynorhinus rafinesquii macrootis</i>) FSC; VA-E; NC-SC	Va: Greensville, Hanover, New Kent, Powhatan, Prince George, Southampton, Surry, Sussex, Chesapeake City, Suffolk City, Virginia Beach City / NC: Northampton, Hertford, Gates, Pasquotank, Camden, Perquimans, Chowan, Bertie, Halifax, Nash, Edgecombe, Martin, Washington, Tyrrell, Dare, Pitt, Beaufort, Hyde, Craven, Jones, Wayne, Johnston, Sampson, Duplin, Pender, Bladen, Robeson, Hoke, Richmond, Columbus, Brunswick, New Hanover		Unknown	Field sampling surveys did not detect the species within the Project area. Project is outside known range of the species. Closest county with a record is ~ 53 miles away.	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	
	Eastern red bat (<i>Lasiurus borealis</i>) VA-W(IV)	Va: Known or likely state-wide / NC: Known or likely state-wide		Unknown	Within study corridor (NC/VA)	0	73	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Eastern small-footed bat (<i>Myotis leibii</i>) FSC; VA-W(I); NC-SC	Va: Bath, Bland, Botetourt, Buchanan, Craig, Dickenson, Giles, Highland, Lee, Scott, Smyth, Tazewell, Washington, Wise, Wythe, Norton City / NC: Graham, Clay, Macon, Swain, Jackson, Haywood, Madison, Buncombe, Henderson, Rutherford, McDowell, Yancey, Mitchell, Avery, Watauga, Wilkes, Alleghany, Davidson, Wake		Unknown	Field sampling surveys did not detect the species within the Project area.	-	-	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Northern yellow bat (<i>Lasiurus intermedius</i>) NC-SC	Va: Virginia Beach City / NC: Mecklenburg, Brunswick, New Hanover		Unknown	Field sampling surveys did not detect the species within the Project area.	-	-	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Gray bat (<i>Myotis grisescens</i>) FE; VA-E; NC-E	Va: Appomattox, Bath, Bland, Buchanan, Lee, Russell, Scott, Smyth, Washington, Wise, Bristol City / NC: Swain, Haywood, Buncombe, Madison, Yancey		Unknown	Field sampling surveys did not detect the species within the Project area. Project is outside known range of the species. Closest county with a record is ~ 39 miles away.	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	
	Hairy bat (<i>Lasiurus cinereus</i>) VA-W(IV)	Va: Known or likely state-wide / NC: Known or likely state-wide		Unknown	Within study corridor (NC/VA)	0	73	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Indiana Bat (<i>Myotis sodalis</i>) FE; VA-E; NC-E	Va: Bath, Bland, Buchanan, Craig, Dickenson, Giles, Highland, Lee, Shenandoah, Taxewell, Wise, Norton City / NC: Cherokee, Graham, Macon, Swain, Jackson, Haywood, Henderson, Rutherford, Mitchell		Unknown	Field sampling surveys did not detect the species within the Project area. Project is outside known range of the species. Closest county with a record is ~ 64 miles away.	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	
	Little brown bat (<i>Myotis lucifugus</i>) VA-E; NC-SR	Va: Known or likely state-wide except for southeastern independent cities (Suffolk City, Chesapeake City, Portsmouth City, Norfolk City, Virginia Beach City) / NC: Cherokee, Clay, Graham, Swain, Macon, Haywood, Transylvania, Henderson, Buncombe, Madison, Yancey, McDowell, Rutherford, Mitchell, Avery, Burke, Watauga, Ashe, Wilkes, Catawba, Gaston, Mecklenburg, Stokes, Chatham, Durham, Wake, Halifax, Northampton, Bertie, Chowan, Gates, Camden		Unknown	Field sampling surveys did not detect the species within the Project area.	-	-	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Northern Long-eared bat (<i>Myotis septentrionalis</i>) FT; VA-T; NC-T	Va: Known or likely state-wide / NC: Cherokee, Graham, Clay, Macon, Swain, Haywood, Jackson, Madison, Buncombe, Henderson, Polk, Rutherford, McDowell, Mitchell, Yancey, Avery, Burke, Watauga, Ashe, Wilkes, Currituck, Camden, Pasquotank, Gates, Bertie, Martin, Washington, Tyrrell, Dare, Hyde, Beaufort, Craven, Jones, Carteret, Pender, Bladen, New Hanover		Unknown	Field sampling surveys did not detect the species within the Project area.	-	-	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Rafinesque's big-eared bat (<i>Corynorhinus rafinesquii rafinesquii</i>) FSC; VA-E; NC-T	Va: Sussex, Chesapeake City, Suffolk City / NC: Cherokee, Graham, Swain, Macon, Transylvania, Haywood, Madison, Buncombe, Burke, Watauga, Alexander		Unknown	Field sampling surveys did not detect the species within the Project area. Project is outside known range of the species. Closest county with a record is ~ 82 miles away.	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	
	Silver-haired bat (<i>Lasionycteris noctivagans</i>) VA-W(IV)	Va: Known or likely state-wide / NC: Known or likely state-wide		Unknown	Field sampling surveys did not detect the species within the Project area.	-	-	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Southeastern bat (<i>Myotis austroriparius</i>) FSC; VA-W(I); NC-SC	Va: Chesterfield, Isle of Wight, Warren, Chesapeake City, Newport News City, Suffolk City, Virginia Beach City / NC: Clay, Scotland, Robeson, Columbus, Brunswick, New Hanover, Pender, Bladen, Sampson, Johnston, Wake, Halifax, Northampton, Hertford, Gates, Pasquotank, Camden, Currituck, Chowan, Bertie, Edgecombe, Martin, Tyrrell, Beaufort, Pitt, Sampson,		Unknown	Field sampling surveys did not detect the species within the Project area. Project is outside known range of the species. Closest county with a record is ~ 32 miles away.	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	
	Tri-colored bat (<i>Perimyotis subflavus</i>) VA-E; NC-SR	Va: Known or likely state-wide / NC: Known or likely state-wide		Unknown	Within study corridor (NC/VA)	0	73	Temporary habitat degradation / habitat removal; harm to individuals	Low to no impact on individual's reproductive fitness due to abundance of roosting habitat within the distance of the species' Activity Area. Low probability of individuals roosting in trees within the LOD at the moment of tree removal.	Project is co-located with existing utility corridors, minimizing the amount of tree clearing. Tree clearing is anticipated to be complete before pupping season.	
	Virginia big-eared bat (<i>Corynorhinus townsendii virginianus</i>) FE; VA-E; NC-E	Va: Bath, Bland, Buchanan, Floyd, Highland, Pulaski, Rockingham, Tazewell, Warren, Washington / NC: Avery, Watauga, Yancey, Caldwell		Unknown	Field sampling surveys did not detect the species within the Project area. Project is outside known range of the species. Closest county with a record is ~ 45 miles away.	N/A	N/A	N/A	Unlikely as species' range does not overlap with Project footprint	N/A	
	Atlantic pigtoe (<i>Fusconia masoni</i>) FPT; VA-T; NC-E	NC Historic: Beaufort, Cumberland, Harnett, Northampton, Wayne NC Current: Bladen, Buncombe, Caswell, Chatham, Cherokee, Clay, Durham, Edgecombe, Franklin, Granville, Halifax, Johnston, Macon, Montgomery, Moore, Nash, Orange, Pender, Person, Pitt, Randolph, Sampson, Transylvania, Union, Vance, Wake, Warren, Wilson VA Current: Albemarle, Alleghany, Amherst, Appomattox, Bedford, Botetourt, Brunswick, Buckingham, Campbell, Craig, Dinwiddie, Fluvanna, Franklin, Goochland, Greensville, Halifax, Henrico, Lunenburg, Mecklenburg, Nottoway, Powhatan, Prince Edward, Rockbridge	Tar-Pamlico River, Neuse River, Cape Fear River, Yadkin-Pee Dee River, Lumber River, Altamaha River, Appamattox River, Black River, Chowan River, Contentnea Creek, Craig Creek, Dan River, Deep River, Eno River, Haw River, James River, Little River, Nottoway River, Ogeechee River, Rivanna River, Roanoke River, Rocky River, Savannah River,	Unknown	Dan River	10.7	48.4	Stream disturbance / temporary habitat degradation	No impact in steams with known occupancy due to complete avoidance of instream impacts; probable habitat impacts if unknown occupancy streams are impacted	Project will cross the Dan River via HDD or conventional bore and implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, the Project will consult with USFWS to determine avoidance and minimization measures.	
Mussels	Eastern Creekshell (<i>Villosa delumbis</i>) NC-SR	NC: Alamance, Anson, Brunswick, Burke, Cabarrus, Chatham, Columbus, Cumberland, Davidson, Duplin, Forsyth, Granville, Guilford, Lee, Mecklenburg, Montgomery, Moore, Orange, Randolph, Richmond, Rowan, Sampson, Stanly, Union	Haw River, Catawba River, Rocky River, Deep River, Little River, Yadkin River, Little Pee Dee River, Tar River, Uwharrie River, Yadkin River, Black River	Unknown	Guilford County, Orange County, Stokes County, Person County	48.4	73.1	Stream disturbance / temporary habitat degradation	Low impact due to relocation prior to instream construction activities; probable habitat impacts if inhabited streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, they will	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks, https://www.ncnhp.org/data/species-community-search https://ncdenr.maps.arcgis.com/apps/PublicInformation/index.html?appid=ad3a85a0c6d644a0b97cd069db238ac3 https://vafwis.dgif.virginia.gov/fwis

Taxa	Species and Status /a	Known Occurrences				Extent of Appropriate Habitat		Consideration of Impacts / Effects		Avoidance & Minimization Measures (If Found)	source info (web link, citation, agency letter or database, etc)
		Counties Known Occurrence (Virginia and North Carolina only)	Waterbodies in VA or NC (aquatic spp)	Known local population level	Nearest Known Occurrence	MP begin (approx)	MP end (approx)	Potential Direct Impacts / Effects (if Found)	Likelihood of Direct Impacts / Effects (if Found)		
	Eastern Lampmussel (<i>Lampsilis radiata</i>) NC-T	NC: Anson, Chatham, Columbus, Craven, Durham, Gates, Granville, Halifax, Hertford, Johnston, Jones, Montgomery, Nash, Northampton, Orange, Pitt, Randolph, Richmond, Robeson, Union, Wake, Wilson VA: Brunswick, Dinwiddie, Fairfax, Isle of Wight, King and Queen, King William, New Kent, Nottoway, Southampton, Sussex, Emporia City (VAFWIS)	NC: Cape Fear River, Chowan River, Contentnea Creek, Deep River, Eno River, Flat River, Haw River, Little Pee Dee River, Little River, Meherrin River, Neuse River, Pee Dee River, Roanoke River, Rocky River, Tar River, Trent River, Uwharrie River, Waccamaw River, Yadkin River	Unknown	Orange County, Chatham County NC	48.4	73.1	Stream disturbance / temporary habitat degradation	Low impact due to relocation prior to instream construction activities; probable habitat impacts if inhabited streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, they will be relocated immediately prior to instream construction activities.	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks , https://www.ncnhp.org/data/species-community-search https://vafwis.dgif.virginia.gov/fwis
	Green Floater (<i>Lasmsgona subviridis</i>) FSC; VA-T; NC-E	NC: Allegheny, Ashe, Durham, Granville, Halifax, Nash, Northampton, Orange, Person, Rockingham, Stokes, Wake, Watauga VA: Albemarle, Amherst, Bland, Brunswick, Buckingham, Carrol, Culpeper, Fauquier, Fluvanna, Giles, Goochland, Grayson, Hanover, Loudon, Louisa, Lunenburg, Montgomery, Nelson, Nottoway, Powhatan, Prince Edward, Pulaski, Rappahannock, Rockbridge, Rockingham, Shenandoah, Stafford, Wythe, Emporia City (VAFWIS)	VA: Taylors Creek, Genito Creek, Allen Creek, Great Creek, Coldwater Creek, Douglas Run, Falling Run, Meherrin River, Falls Creek, Wolf Creek, Suanee Creek, Fishpond Creek, Vaughans Creek, Ducker Creek, Haw Branch, Smacks Creek, Winticomack Creek, Nooning Creek, Cattle Creek, Oldtown Creek, Franks Branch, Ashton Creek, Otter Creek, Thomas Mill Creek, Lynchburg Reservoir, Browns Creek, Horsley Creek, Judith Creek, Harris Creek, Cheese Creek, Blackwater Creek, Opossum Creek, Alabama Creek, Cub Creek, Hat Creek, Black Creek, Naked Creek, Brown Creek, Stonewall Creek, Rocky Creek, Rucker Run, Joe Creek, Mallorys Creek, Sycamore Creek, Ballinger Creek, Rock Island Creek, Little George Creek, Brems Creek, Hunts Creek, Bear Garden Creek, Upper Byrd Creek, Middle Byrd Creek, Hooper Rock Creek, Bonbrook Creek, Randolph, Trice Lake, Muddy Creek, Picketts Creek, Maxey Mill Creek, Beaver Creek, North Moormans River, DoYLES River, Wards Creek, Buck Mountain Creek, South Fork Rivanna River, Buck Island Creek, Carroll Creek, Mechum Creek, Stigger Creek, Cunningham Creek, Ballinger Creek, Carys Creek, Mill Creek, Bennetts Run, Grassy Creek, Bridle Creek, Saddle Creek, Peach Bottom Creek, Little Brush Creek, Crab Creek, Rock Creek, Turkey Fork, Meadow Creek, Eagle Bottom Creek, Chestnut Creek, Bournes Branch, Cranberry Creek, Poor Branch, Slate Spring Branch, Shorts Creek, Hutson Branch, South Fork Reed Creek, Muskrat Branch, Cove Creek, Miller Creek, Pine Run, Lower Little Reed Island Creek, Beaverdam Creek, Pine Creek, Dodd Creek, Brush Creek, Lost Bent Creek, Big Laurel Creek, Connellys run, Stroubles Creek, Dry Branch, Bear Spring Branch, Helveys Mill Creek, East Wilderness Creek, Nobusiness Creek, Dismal Creek, Flat Hollow, Sugar Run, Little Stony Creek, Lower Wold Creek, Clendennin Creek, East River, Adair Run, Dutchman Creek, South Fork Catocin Creek, Catocin Creek, Tuscarora Creek, Gap Run, Panther Skin Creek, Wancopin Creek, Beaverdam Creek, North Fork Goose Creek, Little River, Big Branch, Sycolin Creek, Cattail Branch, Narrow Passage Creek, Toms Brook, Tumbling Run, Molly Booth Run, Turkey Run, Buck Run, Jordan River, Lake Mosby, Thumb Run, Glascock Run, Carter Run, Great Run, Indian Run, Ruffans Run, Rock Run, Deep Run, Marsh Run, Blue Run, Beautiful Run, Poplar Run, Rapidan, Hazel Run, Motts Run, Hazel Run, Archies Creek, Little Dan River, Elk Creek, Peters Creek, Poorhouse Creek, Russells Creek, Spoon Creek, Crooked Creek, Koger Creek, Buffalo Creek, Sandy Creek, Harris Creek, Fork Creek, Cub Creek, Owens Creek, Mountain Run, Hickory Run, Christopher Creek NC: Pamlico River, Pee Dee River, Neuse River, Cape Fear River, Tar River, Uwharrie River, Little River, Contentnea Creek, Deep River, Rocky River, Eno River	Unknown	Rockingham County, Orange County, Stokes County NC	48.4	73.1	Stream disturbance / temporary habitat degradation	Low impact due to relocation prior to instream construction activities; probable habitat impacts if inhabited streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, they will be relocated immediately prior to instream construction activities.	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks , https://www.ncnhp.org/data/species-community-search https://vafwis.dgif.virginia.gov/fwis
	James Spiny mussel (<i>Parvaspina collina</i>) FE; VA-E; NC-E	NC: Caswell, Rockingham, Stokes VA: Albemarle, Alleghany, Amherst, Bath, Botetourt, Craig, Fluvanna, Greene, Henry, Highland, Monroe, Patrick	James River, South Fork Potts Creek, Bullpasture River, Cowpasture River, Mill Creek, Little Oregon Creek, Dicks Creek, John's Creek, Craig Creek, Tye River, Hardware River, Moormans River, North Fork Rivanna River, Rocky Creek, Buck Mountain Creek, Ivy Creek, Swift Run, Wards Creek, Meechums, River, Pedlar River, Dan River, South Fork Mayo River, Mayo River	Unknown	Dan River Rockingham County NC	10.7	48.4	Stream disturbance / temporary habitat degradation	No impact in streams with known occupancy due to complete avoidance of instream impacts; probable habitat impacts if unknown occupancy streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, the Project will consult with USFWS to determine avoidance and minimization measures.	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks , https://www.ncnhp.org/data/species-community-search
	Savannah liliiput (<i>Toxolasma pullus</i>) NC-E	NC: Anson, Chatham, Columbus, Montgomery, Orange, Randolph, Union, Wake VA: No occurrence	Rocky River, Waccamaw River, Haw River, Uwharrie River, Deep River, Little River, Neuse River, Pee Dee River	Unknown	Chatham County, Orange County NC	48.4	73.1	Stream disturbance / temporary habitat degradation	Low impact due to relocation prior to instream construction activities; probable habitat impacts if inhabited streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, they will be relocated immediately prior to instream construction activities.	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks , https://www.ncnhp.org/data/species-community-search
	Yellow Lampmussel (<i>Lampsilis cariosa</i>) FSC; VA-W(II); NC-E	NC: Anson, Brunswick, Chatham, Columbus, Durham, Franklin, Gates, Granville, Halifax, Montgomery, Nash, Orange, Randolph, Richmond, Sampson, Wilson VA: Brunswick, Caroline, Dinwiddie, Fairfax, Hanover, King and Queen, King William, Loudoun, Lunenburg, Mecklenburg, Shenandoah, Southampton, Warren, Emporia City (VAFWIS)	NC: Black River, Cape Fear River, Chowan River, Contentnea Creek, Deep River, Eno River, Flat River, Haw River, Little River, Neuse River, Pee Dee River, Tar River, Waccamaw River, Dan River VA: Pigg River, Allen Creek, Austin Branch, Aylett Creek, Beaverdam Run, Beaver Pond Creek, Big Branch, Blackstone Creek, Brown Hollow Run, Buckhorn Swamp, Cabin Point Swamp, Campbell Creek, Cattail Branch, Cedar Creek, Coldwater Creek, Courtland, Crooked Creek, Douglas Run, Dove Creek, Falling Run, Falls Creek, Gravel Run, Great Creek, Harris Swamp, Hollyfield Pond, Indian Creek, Island Swamp, Jeremy Run, Judy Swamp, Mason Creek, Mechumps Creek, Meherrin River, Middle Meherrin River, Molly Booth Run, Mt. Jackson, Narrow Passage Creek, Parker Run, Powder Mill Creek, Owens Creek, Punches Run, Red Oak Creek, Reedy Creek, Roundabout Creek, Round Gut, Stony Creek, Sycolin Creek, Taylors Creek, Toms Brook, Tumbling Run, Turkey Creek, Turkey Egg Creek, Union Swamp, Wancopin Creek,	Unknown	Chatham County, Orange County, NC Pittsylvania County, VA	48.4	73.1	Stream disturbance / temporary habitat degradation	Low impact due to relocation prior to instream construction activities; probable habitat impacts if inhabited streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, they will be relocated immediately prior to instream construction activities.	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks , https://www.ncnhp.org/data/species-community-search
	Yellow Lance (<i>Elliptio lanceolatus</i>) FT; NC-E	NC: Edgecombe, Franklin, Granville, Halifax, Johnston, Nash, Vance, Wake, Warren, Wayne (NC WRC, NC NHP) VA: Albemarle, Arlington, Brunswick, Caroline, Craig, Culpeper, Dinwiddie, Emporia, Fairfax, Falls Church, Fauquier, Fredricksburg, Giles, Greenville, Hanover, King George, Louisa, Lunenburg, Madison, Nottoway, Orange, Prince Edward, Rappahannock, Southampton, Spotsylvania, Stafford, Sussex, Edgecombe, Franklin, Granville, Halifax, Johnston, Martin, Nash, Person, Pittsylvania, Sampson, Vance, Wake, Warren, Wayne	NC: Swift Creek, Middle Swift Creek, Mill Creek, Tar River, Crooked Creek, Sandy Creek, Shocco Creek, Tabbs Creek, Fishing Creek, Stony Creek, Swift Creek VA: Great Creek, Coldwater Creek, Douglas Run, Falling Run, Big Hounds Creek, Falls, Creek, Whetstone Creek, Cedar Creek, Long Branch, Red Oak Creek, Beaver Pond Creek, Turkey Egg Creek, Sturgeon Creek, Indian Creek, Harris Swamp, Island Swamp, Chamberlains Bed, Lower Sappiny Creek, Southwest swamp, Cabin Point Swamp, Joseph Swamp, Austin Branch, Parker Run, Slagles Lake, Buckhorn Swamp, Courtland, Round Gut, Terrapin Swamp, Antioch Swamp, Third Branch, Franks, Branch, Otter Creek, Reed creek, Thomas Mill Creek, Horsley Creek, Judith Creek, Blackwater Creek, Opposum Creek, Beck creek, Stonewall Creek, Christian Mill Creek, Allens Creek, Alabama Creek, Mallorys Creek, Sycamore Creek, Ballinger Creek, Rock Island Creek, Little George Creek, Brems Creek, Bear Garden Creek, Hooper Rock Creek, Muddy Creek, Picketts Creek, Solomons Creek, Mohawk Creek, Beaverdam Creek, Fine Creek, Little Bernards Creek, Tuckahoe Creek, Mechucnk Creek, Stigger Creek, Carys Creek, Falling Spring Creek, Indian Draft, Mill Creek, Pads Creek, Simpson Creek, Upper Johns Creek, Lower Johns Creek, Roaring Run, Lapsley Run, Hickory Hollow Branch, Roaring Run, Elk Creek, Mill Creek, Lower South River, Bennetts Run, Pogue Run, Little River, Goose Creek, Kettle Run, Rocky Branch, Owl Run, Licking Run, Walnut Branch, Upper Bull Run, Middle Bull Run, Cub Run, Toms Brook, Tumbling Run, Meadow Brook Buck Run, Jordan River, Lake Mosby, Thumb Run, Glascock Run, Carter Run, Great run, Devils Run, Mill Run, Indian Run, Marsh Run, Ruffans Run, Flat Run, Rock Run, Marsh Run, Blue Run, Poplar Run, Rapidan, Cedar run, Potato Run, Mine Run, Fields Run, Dove Fork, Roundabout Creek, Harris Creek, Fork Creek, Owens Creek, Taylors Creek, Turkey Creek, Cedar Creek, Mountain Run, Clear creek, Lake Anna, Robertson Run, Gladys Run, Lake Pochohontas, Mat River, Ta River, Matta River, South River, Campbell Creek, Polecat Creek	Unknown	Pittsylvania County VA, Stony Creek NC	63.5	64.5	Stream disturbance / temporary habitat degradation	Low impact due to relocation prior to instream construction activities; probable habitat impacts if inhabited streams are impacted	Project will implement FERC Plan and Procedures and Project-specific Erosion and Sediment Control Plans. Surveys for freshwater mussels is planned for 2019. If individuals are located during surveys, they will be relocated immediately prior to instream construction activities.	collections.naturalsciences.org, NCWRC comment letter, https://www.ncwildlife.org/Learning/Species/Mollusks , https://www.ncnhp.org/data/species-community-search
Plants	American Bluehearts (<i>Buchnera americana</i>) (S-SR)) VA-R	Pittsylvania County, VA (Brosville Quad Only)	NA	9 current populations in the VA	Unknown	18.7	26.1	Destruction of individuals; habitat alteration	Probable if individuals are present; low probability of habitat impact because suitable habitats would be extended/created as a result of project construction	The Project continues to coordinate with VDCR to minimize impacts on this species. Impacts to habitat will be minimized by implementing FERC Plan and Procedures, Project-specific erosion and sediment control plan, and Exotic and Invasive Plant Species Control Plan.	https://www.inaturalist.org/observations/15532677
	Cliff Stonecrop (<i>Sedum glaucophyllum</i>) NC-SR	Rockingham County, NC Last recorded occurrence per NCWRC is in 1995.	NA	more than 1500 individuals across its range	Rockingham County, NC	26.1	52.9	Destruction of individuals; habitat fragmentation	Low since the Project is at the periphery of species' range	The Project continues to coordinate with NCNHP to minimize impacts on this species. Impacts to habitat will be minimized by implementing FERC Plan and Procedures, Project-specific erosion and sediment control plan, and Exotic and Invasive Plant Species Control Plan.	https://www.inaturalist.org/observations/780491

Taxa	Species and Status /a	Known Occurrences				Extent of Appropriate Habitat		Consideration of Impacts / Effects		Avoidance & Minimization Measures (If Found)	source info (web link, citation, agency letter or database, etc)
		Counties Known Occurrence (Virginia and North Carolina only)	Waterbodies in VA or NC (aquatic spp)	Known local population level	Nearest Known Occurrence	MP begin (approx)	MP end (approx)	Potential Direct Impacts / Effects (if Found)	Likelihood of Direct Impacts / Effects (if Found)		
	Downy phlox (<i>Phlox pilosa</i>) VA-R	Pittsylvania County, VA (Brosville Quad Only)	NA	4 current populations in the VA	Unknown	18.7	26.1	Destruction of individuals; habitat fragmentation	Probable if individuals are present; low probability of habitat impact because suitable habitats would be extended/created as a result of project construction	The Project continues to coordinate with VDCR to minimize impacts on this species. Impacts to habitat will be minimized by implementing FERC Plan and Procedures, Project-specific erosion and sediment control plan, and Exotic and Invasive Plant Species Control Plan.	https://www.inaturalist.org/observations/5824977
	Piedmont Barbara's-button (<i>Marshallia obovate</i> var. <i>obovate</i>) VA-R	Pittsylvania County, VA (Brosville Quad Only)	NA	5 current populations in VA	Unknown	18.7	26.1	Destruction of individuals; habitat fragmentation	Probable if individuals are present; low probability of habitat impact because suitable habitats would be extended/created as a result of project construction	The Project continues to coordinate with VDCR to minimize impacts on this species. Impacts to habitat will be minimized by implementing FERC Plan and Procedures, Project-specific erosion and sediment control plan, and Exotic and Invasive Plant Species Control Plan.	https://www.inaturalist.org/observations/13284442
	Small whorled pogonia (<i>Isotria medeoloides</i>) FT; VA-E; NC-T	Not known in Project area.	NA	Absent; field sampling surveys did not detect the species within the Project area.	Guilford County, NC	26.1	73	Destruction of individuals; habitat fragmentation	Low probability because species specific field surveys conducted to date indicate the species is not present	The Project continues to coordinate with USFWS to minimize impacts on this species. Additional surveys in suitable habitats are planned for 2019. If individuals are found, the Project will develop avoidance and minimization measures in consultation with USFWS and NCNHP.	https://www.inaturalist.org/observations/755644
	Smooth coneflower (<i>Echinacea laevigata</i>) FE; VA-T; NC-E	Not known in Project area.	NA	Absent within Project area based on field sampling surveys. VA: 8 current populations; NC: 16 current populations	Orange County, NC	26.1	73	Destruction of individuals; habitat fragmentation	Low probability because species specific field surveys conducted to date indicate the species is not present	The Project continues to coordinate with USFWS to minimize impacts on this species. Additional surveys in suitable habitats are planned for 2019. If individuals are found, the Project will develop avoidance and minimization measures in consultation with USFWS and NCNHP.	https://www.inaturalist.org/observations/1639128

a/ **Federal Status:** FE - Federal Listed Endangered; FT - Federal Listed Threatened; FSC - Federal Species of Concern; FPT - Federal Proposed Threatened;
Virginia Status: VA-E - Virginia Endangered; VA-T - Virginia Threatened; VA-R - Virginia Rare; VA-W(I) - Virginia Wildlife Action Plan Tier I; VA-W (II) = Virginia Wildlife Action Plan, Tier I; VA-W (III) = Wildlife Action Plan, Tier III; VA-W (IV) = Wildlife Action Plan, Tier IV;
North Carolina Status: NC-E - North Carolina Endangered; NC-T - North Carolina Threatened; NC-SR - North Carolina Significantly Rare; NC-SC - North Carolina Species of Concern



MVP Southgate Project

Docket No. CP19-14-000

Attachment 60-1

March 2019



50101 Governor's Drive
Suite 250
Chapel Hill, NC 27517

919.530.8446 PHONE
919.530.8525 FAX

www.TRCSolutions.com

February 22, 2019

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221

Re: MVP Southgate Project, Pittsylvania County, Virginia. VDHR 2018-3545

Dear Mr. Kirchen:

Enclosed please find hard and digital copies of the Final Report for the *Phase I Archaeological Survey for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia*.

This report has been revised to address comments made by the Federal Energy Regulatory Commission in a recent Data Request. Specific changes made include the following:

- The background research results have been standardized to consistently reflect information on previously identified sites mapped within one-mile of the direct effects APE (Table 3.1; pages 1 and 30) and within the APE (Table 3.1, pages 34 and 35).
- Usage of the terms "survey area," "APE," and "Project area" has been standardized (various locations).
- Information has been added concerning the number of negative and positive shovel tests for the survey (page ii).
- Text has been added to clarify that while tribal coordination for the Project is ongoing, the ethnographic information in Appendix 5 is based on written sources only (page 3).
- A corrected map of site 44PY0270 has been added that omits the results of initial Phase II shovel testing at that site; these new data will be provided in a subsequent report (page 59).

We appreciate the opportunity to provide this information. Please don't hesitate to contact me at (919) 414-3420 / tmillis@trcsolutions.com, or Paul Webb at (919) 414-3418 / pwebb@trcsolutions.com, if you have any questions or require any additional information.

Sincerely,

Tracy L. Millis
Senior Archaeologist

Cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation



50101 Governor's Drive
Suite 250
Chapel Hill, NC 27517

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November 6, 2018

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221

Re: **Submission of Draft Report**, Phase I Archaeological Survey of the Proposed MVP Southgate Pipeline Project, Pittsylvania County, Virginia
VDHR# 2018-3545

Dear Mr. Kirchen:

Please find enclosed two copies of the Phase I archaeological survey report for the proposed MVP Southgate Pipeline Project, Pittsylvania County. TRC is submitting this report on behalf of our client, MVP Southgate, LLC. We look forward to working with you during the environmental review process. Please contact me at (919) 414-3420 or Paul Webb, Project Manager, at (919) 414-3418 if you have questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Tracy L. Millis".

Tracy L. Millis, Senior Archaeologist, TRC Environmental Corporation

cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation

Enclosure



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Chapel Hill, NC 27517

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November 6, 2018

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221

Re: **Submission of Draft Report**, Historic Architectural Survey of the Proposed MVP Southgate Pipeline Project, Pittsylvania County, Virginia
VDHR# 2018-3545

Dear Mr. Kirchen:

Please find enclosed two copies of the historic architectural survey report for the proposed MVP Southgate Pipeline Project, Pittsylvania County. TRC is submitting this report on behalf of our client, MVP Southgate, LLC. We look forward to working with you during the environmental review process. Please contact me at (919) 414-3420 or Paul Webb, Project Manager, at (919) 414-3418 if you have questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Tracy L. Millis".

Tracy L. Millis, Senior Archaeologist, TRC Environmental Corporation

cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation

Enclosure

Webb, Paul

From: Kirchen, Roger <roger.kirchen@dhr.virginia.gov>
Sent: Thursday, January 17, 2019 10:25 AM
To: Webb, Paul
Subject: Re: MVP Southgate (2018-3545) Archaeological and Architectural Reports

Those report are still with our survey division going through QA/QC. I'll check with them to see what they are waiting for to close our their review.

*Roger W. Kirchen, Director
Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221
phone: 804-482-6091
www.dhr.virginia.gov*

On Thu, Jan 17, 2019 at 9:36 AM Webb, Paul <PWebb@trcsolutions.com> wrote:

Roger –

I wanted to check with you on the review status of the initial MVP Southgate archaeological and architectural survey reports that were submitted in November; if you could let me know when we might expect comments it would be greatly appreciated.

Thanks very much,

Paul

Paul Webb

Cultural Resources Program Leader



50101 Governors Drive, Suite 250, Chapel Hill, NC 27517

T: 919.530.8446 x222 | F: 919.530.8525 | C: 919.414.3418

Webb, Paul

From: Webb, Paul
Sent: Wednesday, February 13, 2019 5:33 PM
To: Kirchen, Roger
Cc: Miller, Alex
Subject: RE: MVP Southgate - Phase I Surveys (DHR File No. 2018-3545)

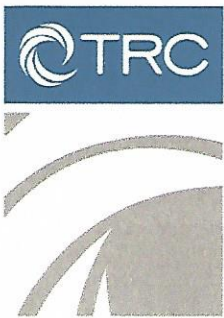
Thanks, Roger.

From: Kirchen, Roger <roger.kirchen@dhr.virginia.gov>
Sent: Wednesday, February 13, 2019 4:44 PM
To: Webb, Paul <PWebb@trcsolutions.com>
Cc: Miller, Alex <Alex.Miller@nexteraenergy.com>
Subject: MVP Southgate - Phase I Surveys (DHR File No. 2018-3545)

Please see attached for DHR's comments on the referenced documents and print for your files. No hardcopy to follow.

Roger

*Roger W. Kirchen, Director
Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221
phone: 804-482-6091
www.dhr.virginia.gov*



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February 22, 2019

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221

Re: Submission of Draft Report, Phase II Archaeological Testing of Sites 44PY0271, 44PY0445, and 44PY0451, and Supplemental Phase I Deep Testing Investigations at Three Locations for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia. VDHR 2018-3545, FERC CP19-14-000

Dear Mr. Kirchen:

Enclosed for your review please find two hard copies and a digital copy of the above-referenced report for the MVP Southgate Project in Pittsylvania County, Virginia. TRC is submitting this report on behalf of our client, MVP Southgate, LLC.

We look forward to the results of your review and to continuing to work with you during the review process. Please don't hesitate to contact me at (919) 414-3420 / tmillis@trcsolutions.com, or Paul Webb at (919) 414-3418 / pwebb@trcsolutions.com, if you have questions or require additional information.

Sincerely,

A handwritten signature in blue ink that reads "Tracy L. Millis". The signature is written in a cursive, flowing style.

Tracy L. Millis
Senior Archaeologist

Cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation



50101 Governor's Drive
Suite 250
Chapel Hill, NC 27517

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www.TRCSolutions.com

November 6, 2018

Ms. Renee Gledhill-Earley
Environmental Review Coordinator
North Carolina State Historic Preservation Office
109 East Jones Street, Room 258
Raleigh, North Carolina 27601

Re: **Submission of Draft Report**, Phase I Archaeological Survey of the Proposed MVP Southgate Pipeline Project, Rockingham, and Alamance Counties, North Carolina
ER 18-1041

Dear Ms. Gledhill-Earley:

Please find enclosed two copies of the Phase I archaeological survey report for the proposed MVP Southgate Pipeline Project, Rockingham and Alamance Counties. TRC is submitting this report on behalf of our client, MVP Southgate, LLC. We look forward to working with you during the environmental review process. Please contact me at (919) 414-3420 or Paul Webb, Project Manager, at (919) 414-3418 if you have questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Tracy L. Millis".

Tracy L. Millis, Senior Archaeologist, TRC Environmental Corporation

cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation

Enclosure



50101 Governor's Drive
Suite 250
Chapel Hill, NC 27517

919.530.8446 PHONE
919.530.8525 FAX

www.TRCSolutions.com

November 6, 2018

Ms. Renee Gledhill-Earley
Environmental Review Coordinator
North Carolina State Historic Preservation Office
109 East Jones Street, Room 258
Raleigh, North Carolina 27601

Re: **Submission of Draft Report**, Historic Architectural Survey of the Proposed MVP Southgate Pipeline Project, Rockingham, and Alamance Counties, North Carolina
ER 18-1041

Dear Ms. Gledhill-Earley:

Please find enclosed two copies of the historic architectural survey report for the proposed MVP Southgate Pipeline Project, Rockingham and Alamance Counties. TRC is submitting this report on behalf of our client, MVP Southgate, LLC. We look forward to working with you during the environmental review process. Please contact me at (919) 414-3420 or Paul Webb, Project Manager, at (919) 414-3418 if you have questions or require additional information.

Sincerely,

A handwritten signature in black ink that reads "Tracy L. Millis".

Tracy L. Millis, Senior Archaeologist, TRC Environmental Corporation

cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation

Enclosure

Webb, Paul

From: Webb, Paul
Sent: Friday, December 21, 2018 9:51 AM
To: 'Blewitt, Rosemarie'; 'Shearin, Renee'
Subject: FW: MVP Southgate Pipeline

Got it, thanks Renee! Hope you all enjoy the holidays.

P

From: Miller, Alex <Alex.Miller@nexteraenergy.com>
Sent: Friday, December 21, 2018 9:45 AM
To: Shearin, Renee <renee.shearin@ncdcr.gov>
Cc: Webb, Paul <PWebb@trcsolutions.com>; Millis, Tracy <TMillis@trcsolutions.com>
Subject: RE: MVP Southgate Pipeline

Hello Ms. Shearin,

Thank you for your review and response. We will look over them and respond back to your office in the next couple weeks.

Regards,

Alex V. Miller

Environmental Permitting Lead
on behalf of Mountain Valley Pipeline, LLC
713-374-1599



From: Shearin, Renee <renee.shearin@ncdcr.gov>
Sent: Friday, December 21, 2018 8:14 AM
To: tmillis@trcsolutions.com
Cc: Miller, Alex <Alex.Miller@nexteraenergy.com>; Webb, Paul <PWebb@trcsolutions.com>
Subject: MVP Southgate Pipeline

CAUTION - EXTERNAL EMAIL

Our response is attached. Thank you.

Renee Shearin
State Historic Preservation Office
Division of Historical Resources
Office of Archives and History
North Carolina Department of Natural and Cultural Resources
MSC 4617, Raleigh, NC 27699
919 814 6584 office



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Please submit all Environmental Review projects to environmental.review@ncdcr.gov. Only one project per email. Allow at least 30 days for our review. We try hard to complete the reviews in fewer days, but under state and federal regulations we have 30 days to respond.

See http://www.hpo.ncdcr.gov/er/er_email_submittal.html for guidelines on submitting projects for environmental review.

Do not send .zip, .tif files, downloads, or links to websites as we are not able to process these types of items. The message size, including all attachments, should be no larger than 20 megabytes.



Correspondence Summary Sheet

Client: Mountain Valley Pipeline, LLC

By: Paul Webb

Project Name: MVP Southgate Project

Talked With: John Mintz

Project Number:

Date: January 14, 2019

Of: North Carolina HPO (Office of State Archaeology)

Subject: Site Visit

Telephone: 919 814-6555

Email:

Supplemental Information Attached? NO

Indicate Documentation Type: Telephone

John Mintz called to see if we could arrange a site visit for their staff sometime in the next few weeks; told him I would get back to him.

Webb, Paul

From: Mintz, John <john.mintz@ncdcr.gov>
Sent: Tuesday, January 15, 2019 9:03 AM
To: Webb, Paul
Subject: RE: [External] MVP Southgate - NC HPO/OSA visit Jan 25th, 10AM?

perfect

Please note, effective October 9, 2018, my phone number will change to 919-814-6555.

JOHN J. MINTZ
Office of State Archaeology
State Archaeologist

919-814-6555 office
919-715-2671 fax
john.mintz@ncdcr.gov

109 East Jones Street | 4619 Mail Service Center | Raleigh, North Carolina 27699-4619



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From: Webb, Paul <PWebb@trcsolutions.com>
Sent: Tuesday, January 15, 2019 8:57 AM
To: Mintz, John <john.mintz@ncdcr.gov>
Subject: RE: [External] MVP Southgate - NC HPO/OSA visit Jan 25th, 10AM?

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Ok, that we'll figure out, but it will be Alamance...

From: Mintz, John <john.mintz@ncdcr.gov>
Sent: Tuesday, January 15, 2019 8:55 AM
To: Webb, Paul <PWebb@trcsolutions.com>
Subject: RE: [External] MVP Southgate - NC HPO/OSA visit Jan 25th, 10AM?

Me, David Cranford, and Rosie Blewitt-. Just tell me where we are to meet? Many thanks

Please note, effective October 9, 2018, my phone number will change to 919-814-6555.

JOHN J. MINTZ
Office of State Archaeology
State Archaeologist

919-814-6555 office
919-715-2671 fax
john.mintz@ncdcr.gov

109 East Jones Street | 4619 Mail Service Center | Raleigh, North Carolina 27699-4619



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From: Webb, Paul <PWebb@trcsolutions.com>
Sent: Tuesday, January 15, 2019 8:40 AM
To: Mintz, John <john.mintz@ncdcr.gov>
Subject: RE: [External] MVP Southgate - NC HPO/OSA visit Jan 25th, 10AM?

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Who is coming from you all do you think?

From: Mintz, John <john.mintz@ncdcr.gov>
Sent: Tuesday, January 15, 2019 8:24 AM
To: Webb, Paul <PWebb@trcsolutions.com>; Estabrook, Richard <Richard.Estabrook@nexteraenergy.com>; Miller, Alex <Alex.Miller@nexteraenergy.com>; Millis, Tracy <TMillis@trcsolutions.com>
Subject: RE: [External] MVP Southgate - NC HPO/OSA visit Jan 25th, 10AM?

Perfect, thank you.

Please note, effective October 9, 2018, my phone number will change to 919-814-6555.

JOHN J. MINTZ
Office of State Archaeology
State Archaeologist

919-814-6555 office
919-715-2671 fax
john.mintz@ncdcr.gov

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**NC DEPARTMENT OF
NATURAL AND CULTURAL RESOURCES**

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From: Webb, Paul <PWebb@trcsolutions.com>

Sent: Tuesday, January 15, 2019 8:13 AM

To: Mintz, John <john.mintz@ncdcr.gov>; Estabrook, Richard <Richard.Estabrook@nexteraenergy.com>; Miller, Alex <Alex.Miller@nexteraenergy.com>; Millis, Tracy <TMillis@trcsolutions.com>

Subject: [External] MVP Southgate - NC HPO/OSA visit Jan 25th, 10AM?

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John/Rich/Alex/Tracy –

How about 10AM on Jan 25th for a field visit, somewhere in Alamance County with precise location to be determined?

Paul



Correspondence Summary Sheet

Client: Mountain Valley Pipeline, LLC

By: Paul Webb

Project Name: MVP Southgate Project

Talked With: John Mintz

Project Number:

Date: January 15, 2019

Of: North Carolina HPO (Office of State Archaeology)

Subject: Treatment Plans

Telephone: 919 814-6555

Email:

Supplemental Information Attached? NO

Indicate Documentation Type: Telephone

I called John to ask if they would review site treatment plans at the same time as Phase II reports; he indicated that they would prefer to review them sequentially (i.e., comment on Phase II report first and then receive treatment plan if appropriate).



MVP Southgate Project Meeting Minutes

Meeting Date: January 25, 2019
Meeting Location: MVP Southgate Corridor
Meeting Leader: Rich Estabrook, NextEra, Archaeologist
Minutes Prepared By: Paul Webb, TRC Cultural Resources Lead
Participants: David Cranford, Assistant State Archaeologist, Historic Preservation Office (HPO)/Office of State Archaeology (OSA)
Cassandra Pardo, Project Registrar, HPO/OSA
Jeff Johnson, TRC, Cultural Resources Crew Lead
Missy Emery, TRC Field Technician
John Haefner, TRC Field Technician
Chandra Wilson, TRC Field Technician

Meeting Purpose:

Provide NC HPO staff with an opportunity to view MVP Southgate archaeological survey fieldwork and techniques. Participants visited ongoing survey north of Gilliam Church Road in Alamance County, North Carolina.

Discussion Points:

- Jeff Johnson, TRC Crew Lead, demonstrated use of tablet and Fulcrum App to orient crew for surface inspection and shovel testing.
- Johnson and crew members carried out intensive surface inspection of a plowed field and shovel tested in a wooded area and vegetated transmission line corridor.
- HPO staff appreciated opportunity to visit fieldwork. MVP Southgate will keep HPO informed and arrange additional visits depending on site findings and any HPO concerns.

Webb, Paul

From: Karpynec, Ted
Sent: Monday, January 28, 2019 4:53 PM
To: Webb, Paul; Millis, Tracy; Millis, Heather; Norris, Sean; Price, David; Fortier, Karla M.
Subject: FW: ER 18-1041 | MVP Southgate Pipeline Survey Documentation | Architecture Survey Draft Response
Attachments: ER 18-1041.pdf

Folks,

Attached is the NC-SHPO's comment letter regarding the architectural survey report.

Ted

Ted Karpynec
Senior Architectural Historian
Planning, Permitting and Licensing



1865 Air Lane Dr., Suite 9, Nashville, TN 37210
T: 615.334.0238 | C: 615.428.4639 | F: 615.884.4431
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From: Harville, Katie E <katie.harville@ncdcr.gov>
Sent: Monday, January 28, 2019 3:42 PM
To: Karpynec, Ted <TKarpynec@trcsolutions.com>
Subject: ER 18-1041 | MVP Southgate Pipeline Survey Documentation | Architecture Survey Draft Response

Ted,

Apologies on that Ted. Some wires got crossed so a letter was processed and mailed to the TRC Chapel Hill office on 12/20/2018. I've attached a pdf version of the letter for your records. Apologies again for the last name typo. Let me know if you have any more questions for the final draft.

Best,

Katie Harville

Environmental Review Specialist
State Historic Preservation Office

109 E. Jones Street MSC 4603 Raleigh, NC 27699
919 814 6581 office
katie.harville@ncdcr.gov



Please Note: Requests for project review or responses to our review comments should be sent to the Environmental Review mailbox at environmental.review@ncdcr.gov. Otherwise, your request will be returned and you will be asked to send it to the proper mailbox. This will cause delays in your project. Information on email project submittal is at: http://www.hpo.ncdcr.gov/er/er_email_submittal.html

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From: Karpynec, Ted <TKarpynec@trcsolutions.com>

Sent: Monday, January 28, 2019 3:58 PM

To: Harville, Katie E <katie.harville@ncdcr.gov>

Subject: RE: [External] FW: ER 18-1041 | MVP Southgate Pipeline Survey Documentation | Photo Proof Sheets

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Hi Katie,

I hope all is well. I'm just checking in to see if your office has had a chance to review our MVP Southgate architecture report and if we can expect comments soon.

Thanks,
Ted

Ted Karpynec
Senior Architectural Historian
Planning, Permitting and Licensing



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T: 615.334.0238 | C: 615.428.4639 | F: 615.884.4431
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From: Harville, Katie E <katie.harville@ncdcr.gov>

Sent: Thursday, December 20, 2018 1:22 PM

To: Karpynec, Ted <TKarpynec@trcsolutions.com>

Subject: RE: [External] FW: ER 18-1041 | MVP Southgate Pipeline Survey Documentation | Photo Proof Sheets

I can see where our staff has reviewed and drafted comments. I believe that is being processed for returned to you. I would say that you might see it back by the end of this week but for sure by COB Dec 31.

Best,

Katie Harville

Environmental Review Specialist
State Historic Preservation Office

109 E. Jones Street MSC 4603 Raleigh, NC 27699
919 814 6581 office
katie.harville@ncdcr.gov



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[Facebook](#) [Twitter](#) [Instagram](#) [YouTube](#)

From: Karpynec, Ted <TKarpynec@trcsolutions.com>

Sent: Wednesday, December 19, 2018 1:35 PM

To: Harville, Katie E <katie.harville@ncdcr.gov>

Subject: RE: [External] FW: ER 18-1041 | MVP Southgate Pipeline Survey Documentation | Photo Proof Sheets

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Hi Katie,

I hope all is well. I'm just checking in to see if you had a chance to review the MVP Southgate report and if you had any questions. If not, can you provide me with a rough estimate when we may receive your comments?

Thanks,
Ted

Ted Karpynec
Senior Architectural Historian
Planning, Permitting and Licensing



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Chapel Hill, NC 27517

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www.TRCSolutions.com

February 22, 2019

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221

Re: MVP Southgate Project, Pittsylvania County, Virginia. VDHR 2018-3545

Dear Mr. Kirchen:

Enclosed please find hard and digital copies of the Final Report for the *Phase I Archaeological Survey for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia*.

This report has been revised to address comments made by the Federal Energy Regulatory Commission in a recent Data Request. Specific changes made include the following:

- The background research results have been standardized to consistently reflect information on previously identified sites mapped within one-mile of the direct effects APE (Table 3.1; pages 1 and 30) and within the APE (Table 3.1, pages 34 and 35).
- Usage of the terms "survey area," "APE," and "Project area" has been standardized (various locations).
- Information has been added concerning the number of negative and positive shovel tests for the survey (page ii).
- Text has been added to clarify that while tribal coordination for the Project is ongoing, the ethnographic information in Appendix 5 is based on written sources only (page 3).
- A corrected map of site 44PY0270 has been added that omits the results of initial Phase II shovel testing at that site; these new data will be provided in a subsequent report (page 59).

We appreciate the opportunity to provide this information. Please don't hesitate to contact me at (919) 414-3420 / tmillis@trcsolutions.com, or Paul Webb at (919) 414-3418 / pwebb@trcsolutions.com, if you have any questions or require any additional information.

Sincerely,

Tracy L. Millis
Senior Archaeologist

Cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation



MVP Southgate Project

Docket No. CP19-14-000

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Privileged Communications

Provided Under Separate Cover

Attachment 60-1

March 2019

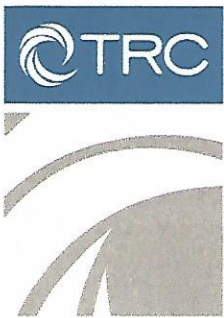


MVP Southgate Project

Docket No. CP19-14-000

Attachment 61-1

March 2019



50101 Governor's Drive
Suite 250
Chapel Hill, NC 27517

919.530.8446 PHONE
919.530.8525 FAX

www.TRCSolutions.com

February 22, 2019

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221

Re: Submission of Draft Report, Phase II Archaeological Testing of Sites 44PY0271, 44PY0445, and 44PY0451, and Supplemental Phase I Deep Testing Investigations at Three Locations for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia. VDHR 2018-3545, FERC CP19-14-000

Dear Mr. Kirchen:

Enclosed for your review please find two hard copies and a digital copy of the above-referenced report for the MVP Southgate Project in Pittsylvania County, Virginia. TRC is submitting this report on behalf of our client, MVP Southgate, LLC.

We look forward to the results of your review and to continuing to work with you during the review process. Please don't hesitate to contact me at (919) 414-3420 / tmillis@trcsolutions.com, or Paul Webb at (919) 414-3418 / pwebb@trcsolutions.com, if you have questions or require additional information.

Sincerely,

A handwritten signature in blue ink that reads "Tracy L. Millis". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Tracy L. Millis
Senior Archaeologist

Cc: Alex Miller, MVP Southgate, LLC
Paul Webb, TRC Environmental Corporation



MVP Southgate Project

Docket No. CP19-14-000

CUI//PRIV - DO NOT RELEASE
Phase II and Deep Testing Report
Archaeological Survey Reports
Provided Under Separate Cover

Attachment 61-1

March 2019



MVP Southgate Project

Docket No. CP19-14-000

Attachment 71-1

March 2019

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM0122**

Blockface#:

Quad: Lake Burlington

PIN: 141619

X: 36.14796 **Y:** -79.4189

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Dickey House**Street or 911 Address: **2748 N NC 62 Highway**Location Description: **N side NC 62, 0.2 mi. E jct SR 1001**Town/vicinity: **Faucette vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0122 is a previously-recorded residence that was located at 2748 North NC 62 Highway, Burlington 27217 on parcel 141619 (Alamance County, NC GIS 2018). TRC's field survey revealed that the original ca. 1885 two-story, Folk Victorian style house associated with NC-HPO AM0122 has been destroyed since its initial recordation (see Figure A). The parcel that once contained the original house (AM0122) has been replaced by a single story, Minimal Traditional style house with a reported construction date of 1948 that appears to have been relocated to the parcel (Alamance County, NC GIS 2018) (see Figure A). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0122 was limited to the public right-of-way along North NC 62.

The building features a side-gabled roof covered with asphalt shingles, an exterior clad with aluminum siding, a foundation composed of brick, and 6/6 double-hung vinyl sash windows. Facing south, the façade is marked with an off-centered door that is accessible via a partial-width porch. The porch contains a wood deck and is shielded by a projecting gable roof that is supported by wood posts.

NRHP Assessment. The original ca. 1885 two-story, Folk Victorian style house associated with NC-HPO AM0122 has been destroyed since its initial recordation and replaced by a Minimal Traditional style house that appears to have been relocated to the parcel. In accordance with NRHP Criteria Consideration B, moved properties are normally not eligible for the NRHP unless they are of architectural significance, or are the surviving structure most importantly associated with a historic even or person. The current building on the parcel does not exhibit a distinctive architectural style or workmanship, nor is the property associated with important historical event(s) or person(s). Due to its lack

Tuesday, November 20, 2018

of historic and architectural significance it is the opinion of TRC that architectural resource AM0122 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
--------------------	-----------------	------------------	------------------	----------------

Tobacco Barn

- An early twentieth century log tobacco barn. The structure features a gable roof covered with standing seam metal and hand-hewn logs joined with together with square notching

Well House

- An early twentieth century well house. The wood-frame structure features a gable-front roof and an exterior clad with board-and-batten wood siding. A door, which is shielded by the cantilevered roof, is located on the south elevation. This structure can be seen in the original 2002 photo of the ca. 1885 house

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM0157**

Blockface#:

Quad: Ossipee

PIN: 111105

X: 36.21416 **Y:** -79.5115

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Gilliam Academy**Street or 911 Address: **4031 N NC Highway 87**Location Description: **NE side NC 87 jct SR 1576**Town/vicinity: **Morton vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0157 is a previously-recorded residence that is located at 4031 N NC Highway 87 Elon 27244 on parcel 111105 (Alamance County, NC GIS 2018) . According to the information provided in the property's initial survey form, the ca. 1900 building originally functioned as the auditorium for Gilliam Academy prior to being moved to its current location in the early 1940s (Lounsburry 1978). During this time the building was also converted into a residence. An updated survey form of the property completed in 1982 states that the building was the actual Gilliam Academy school building, with no references to it being the auditorium. Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0157 was limited to the public right-of-way along NC Highway 87.

The one-and-one-half-story, wood-frame building features a hipped-gabled roof covered with standing seam metal, an interior brick chimney, an exterior clad with vinyl siding, a foundation composed of brick, and 6/1 double-hung vinyl sash windows. Facing west, the façade is marked with a central door that is topped with a fanlight. A center bay porch containing a wood deck provides access to the main entrance. The porch is shielded by a shed roof that is supported by four posts that appear to be composed of synthetic material. Flanking the central bay are projecting gable bays that are accented with corner returns and three 6/1 double-hung vinyl sash windows.

NRHP Assessment. In accordance with NRHP Criteria Consideration B, moved properties are normally not eligible for the NRHP unless they are of architectural significance, or are the surviving structure most importantly associated with a historic even or person. The current building on the parcel does not exhibit a distinctive architectural style or workmanship, and has received significant exterior alterations since its

Tuesday, November 20, 2018

initial recordation in 1978. Due to its lack of historic and architectural significance it is the opinion of TRC that architectural resource AM0157 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM0160**

Blockface#:

Quad:

PIN: 111100

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **J.H. Gilliam House**Street or 911 Address: **3432 Gilliam Road**

Location Description:

Town/vicinity: **Not specified**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity: **Not specified** Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0160 is a previously-recorded Triple-A house that is located at 3432 Gilliam Church Road, Elon 27244 on parcel 111100 (Alamance County, NC GIS 2018) . According to the information provided in the property's initial survey form, the house is locally known as the "J. H. Gilliam House" and was constructed ca. 1875 (Lounsbury 1978). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0160 was limited to the public right-of-way along Gilliam Church Road.

The two-and-one-half-story, wood-frame building features a side-gabled roof covered with standing seam metal, an exterior clad with weatherboard siding, a foundation composed of brick, and 6/6 double-hung wood sash windows. Facing north, the façade is marked with a central door opening that contains a pair of paneled leaves. The door opening is accented with flanking sidelights with three panes above a lower panel. A single window opening flanks the main entrance, which is accessible via a full-width porch that contains a wood deck. The bungalow-influenced porch was likely added to the house in ca. 1930 and features a brick foundation and a shed roof that is supported by four taped square posts atop plinth blocks composed of coursed fieldstone. Three window openings are symmetrically located along the second story. Situated in the half story is a centrally placed wall dormer with cornice returns and a 6/1 double-hung wood sash window. Both the east and west elevations of the house are marked by an exterior end brick chimney and cornice returns. Though access to the property was limited to the public right-of-way, TRC observed a two-story rear ell that appears to date to the original construction of the house.

Located east of the house is partially collapsed barn that appears to have been constructed in the early twentieth century. The wood-frame structure features a gambrel roof covered with standing seam metal and

Tuesday, November 20, 2018

an exterior clad with vertical wood boards. An open central bay is located on the north and south elevations (see Figure C).

NRHP Assessment. Architectural resource AM0160 is an example of a late-nineteenth century Triple A style house in which the exterior of the building has not been significantly altered since the addition of the bungalow-influenced porch to the façade in the early twentieth century. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as the window sashes, exterior siding, and cornice trim woodwork. Moreover, the house has not been significantly altered, and as a result, retains its original scale and massing. Despite the inclusion of the façade porch, which is considered a historic alteration, it is the opinion of TRC that architectural resource AM0160 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of a Triple A style house. The proposed NRHP boundary includes the 1.69 acres of the property as detailed in the accompanying tax map

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM0203**

Blockface#:

Quad: Mebane

PIN: 153233

X: 36.08870 **Y:** -79.3642

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Thomas M. Holt Manufacturing. Company Mill (Duplicate Record)**Street or 911 Address: **205 Stone Street**Location Description: **Stone Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0203/AM1516 is a previously-recorded textile mill complex that is located at 205 Stone Street, Haw River 27258 and occupies parcel 153233 totaling 7.4 acres (Alamance County, NC GIS 2018). Originally surveyed in 1978, the mill complex is the former T. M. Holt Manufacturing Company, which was later renamed the Cone Mills Tabardrey Plant.

The history of the T.M. Holt Manufacturing Company complex traces back to 1844 with the construction of the first textile mill along the Haw River by Benjamin Trollinger, in partnership with his brother John and nephew William (Fernbach 2017). Under Trollinger's direction, the mill was organized as the Granite Cotton Factory. By 1858, the mill operation was acquired by the Edwin Michael Holt and his son Thomas M. Holt. Under the Holt family ownership, production at the mill grew exponentially and resulted in a massive expansion to the complex in 1881. By the early 1890's, the mill complex employed 500 employees who operated nearly 9,000 spindles and 450 looms (Fernbach 2017).

For the Holt family, the success of Granite Mills led to further mill acquisitions in Haw River. By 1895, the family owned and operated the Thomas M. Holt Manufacturing Company (AM1516/AM0203) and Cora Manufacturing Company mills (AM2407). The late nineteenth century witnessed the peak of the Holt family's involvement in the textile industry as they owned ten of the 19 textile mills then operating in Alamance County (Fernbach 2017).

According to property's survey form, the T.M. Holt Manufacturing Company mill was the last of three mills that were constructed under the direction of Thomas M. Holt. The complex was initially powered by steam, but with advances in technology, the plant was powered by electricity by the early twentieth century (Lounsbury and Stokes 1978).

In 1917, the three Haw River mills operated by the Holt family were reorganized under the name Holt-Granite-Puritan Mills Company and specialized in the manufacture of cotton dress goods. By the late 1920s, Granite Mill was acquired by Greensboro industrialists Sidney Paine and Herman Cone and renamed the plant the Granite Finishing Works. Under Pain and Cone, the mill complex finished corduroy for shipping. The spinning and weaving of the corduroy took place at the former Cora and Thomas M. Holt mills, which were consolidated and renamed the Tabardrey Manufacturing Company (AM2408) (Fernbach 2017). In 1936, the Tabardrey Manufacturing Company is reported to have produced 3.5 million yards of corduroy, which amounted to ten percent of the total textiles produced in the United States that year (Fernbach 2017). Following the end of World War II, the Proximity Manufacturing Company, a subsidiary of larger group of textile companies operated by Paine and Cone, became Cone Mills Corporation in 1948. During this period, Granite Mill continued to manufacture finish corduroy woven at the Tabardrey plant until the latter shut down in 1983. Granite Mills continued operations dying and finishing chamois and flat cloth until its closure in 1997 (Fernbach 2017).

Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of the T.M. Holt Manufacturing Company mill was limited to available access roads along the periphery of the mill site. In addition, heavy vegetation covers much of the original mill building along its east elevation. Accordingly, a thorough assessment of the resource's integrity could not be conducted.

Architecturally, the mill complex was built in two episodes. The original, two-story, 1895 T.M. Holt Manufacturing Company mill building is of brick construction and features segmental arched window openings that are largely covered with plywood boards (see Figures A-C). This section of the plant is marked by a square-shaped Romanesque Revival stair-tower (see Figure A). Located north of the tower is a large, square-shaped brick smoke stack with corbelling detailing (see Figure A). Attached near the southeast corner of the building is an early twentieth century addition that is marked by a series of monitor roofs (see Figure D).

The second building episode includes the two-story Holt-Tarbardrey Mill (AM1516) that is connected to the north elevation of the 1895 mill building (see Figures E-F). This section of the complex appears to have been constructed in the 1920s and later renovated through the application of exterior metal siding on the north elevation. Fenestration on this section of the mill consists of four-light metal sash windows that are positioned along the east elevation. However, this elevation also includes many original window openings have been enclosed with. The north elevation of the 1920s building includes a docking bay and an elevated catwalk that provides access to the Cora Mill (AM2407) (see Figure F).

NRHP Assessment. Originally recorded in 1978, the T. M. Holt Manufacturing Company (AM0203) and Holt-Tarbardrey Mill (AM1516) mill complex, were two of several textile mills that were constructed in Alamance County during the late nineteenth century. Though AM0203 and AM1516 played an important role in the economic development of Haw River and were associated with the Holt family, the physical integrity of the mill complex appears poor due to neglect and vandalism. Since the time of its recordation, a portion of the original mill building appears to have collapsed and many of the original window openings have been sealed with brick or covered with plywood boards (see Figures A, B, and E). This NRHP assessment is based on the limited views and access afforded to TRC personnel at the time of its survey. Accordingly, it is the opinion of TRC that additional field work and research are necessary to determine the property's eligibility. It is therefore TRC's recommendation that the NRHP eligibility of the mill complex cannot be determined.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM0225**

Blockface#:

Quad: Mebane

PIN: 153174

X: 36.09152 Y: -79.3656

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Holt Mill House (Johnston House)**Street or 911 Address: **103 Gravel Street**Location Description: **Gravel Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0225 is a previously-recorded residence that is located at 103 Gravel Street, Haw River 27217 on parcel 153174 (Alamance County, NC GIS 2018). According to the information provided in the property's initial survey form, the ca. 1890 building is one of three Triple A mill houses that were once located on the southside of Gravel Street (Lounsbury 1978). Only AM0225 remains extant. Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0225 was limited to the public right-of-way along Gravel Street.

The one-and-one-half-story, wood-frame building features a side-gabled roof covered with standing seam metal, an interior brick chimney, an exterior clad with weatherboard siding, a foundation composed of concrete blocks, and 2/2 double-hung wood sash windows. Facing south, the façade is marked with a central door opening that contains a wood leaf with three panels and a multi-light glass window. Flanking either side of the door are two windows. A full-width porch containing a concrete deck provides access to the main entrance. The porch is shielded by a hipped roof that is supported by four turned posts adorned with decorative brackets. Additionally, a non-historic wood balustrade is featured on the porch. Located in above the porch is a gable dormer that is pierced by a decorative circular attic vent. The gable dormer is clad with wood shingles.

NRHP Assessment. In accordance with NRHP Criteria Consideration B, moved properties are normally not eligible for the NRHP unless they are of architectural significance, or are the surviving structure most importantly associated with a historic even or person. The current building on the parcel does not exhibit a distinctive architectural style or workmanship, and has received minor exterior alterations since its initial

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recordation in 1978. Due to its lack of historic and architectural significance it is the opinion of TRC that architectural resource AM0225 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM0266**

Blockface#:

Quad: Mebane

PIN: 153171

X: 36.09147 **Y:** -79.3658

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Jim McClure House**Street or 911 Address: **105 Gravel Street**Location Description: **N side Gravel Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0226 is a previously-recorded Triple-A house that is located at 105 Gravel Road, Haw River 27244 on parcel 153171 (Alamance County, NC GIS 2018) . According to the information provided in the property's initial survey form, the house is locally known as the "Jim McClure House" and was constructed ca. 1897 (Lounsbury 1978). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0226 was limited to the public right-of-way along Gravel Road.

The two-and-one-half-story, wood-frame building features a side-gabled roof covered with asphalt shingles, two central interior brick chimneys that have been truncated, an exterior clad with weatherboard siding, a foundation composed of brick, and 2/2 double-hung wood sash windows. Facing south, the façade is marked with a central door opening that contains a single leaf wood door with multiple panels. The door opening is accented with a Classically-inspired surround marked with fluted wood pilasters that support a broken pediment. Flanking either side of the main entrance are single windows. Three symmetrically placed windows are located along the second story. A full-façade porch with a concrete deck atop a brick foundation provides access to the main entrance. The porch is shielded by a flat roof that is supported by four wood columns that appear to date to the original construction of the house. Situated above the porch is a gable dormer that is pierced by a circular-shaped louvered attic vent. Both the east and west elevations of the house are marked by a first and second story window. Though access to the property was limited to the public right-of-way, TRC observed a one-story rear addition that appears to date to the late twentieth century.

NRHP Assessment. Architectural resource AM0226 is an example of a late-nineteenth century Triple A style

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house in which the exterior of the building of the main block has not been significantly altered since it was constructed in the late nineteenth century. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as the window sashes, exterior siding, and cornice trim woodwork. Despite the construction of a one-story rear addition, the house retains its original scale and massing. As a result, it is the opinion of TRC that architectural resource AM0226 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of a Triple A style house. The proposed NRHP boundary includes the area illustrated in the accompanying tax map

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM0350**

Blockface#:

Quad: Mebane

PIN: 153244

X: 36.09222 **Y:** -79.3640

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Robertson House**Street or 911 Address: **402 E Main Street**Location Description: **402 E. Main Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRdate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0350 is a previously-recorded Queen Anne house with Eastlake detailing that is located at 402 E. Main Street, Haw River 27244 on parcel 153244 (Alamance County, NC GIS 2018) . According to the information provided in the property's initial survey form, the house is locally known as the "Robertson House" and was constructed ca. 1890 (Lounsbury 1978). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0350 was limited to the public right-of-way along E. Main Street.

The two-and-one-half-story, wood-frame building features a multi-gabled roof covered with asphalt shingles, an interior brick chimney, an exterior clad with vinyl siding, a foundation composed of brick, and 1/1 double-hung sash windows. Due to the house's distance from the public right-of-way, TRC could not discern the sash material of the windows. Facing south, the façade is marked with a central door opening that is flanked to the west by a single window. A partial-width porch with heavy Eastlake detailing provides access to the main entrance. The porch contains a wood deck, turned porch columns with decorative brackets that support a projecting gable entry roof, and a spindle work frieze with matching balustrades that are in excellent condition. Located above is a sleeping porch on the second story that is articulated with the same Eastlake detailing found on the entry porch. Positioned east of the porch is a projecting gable bay that is pierced with a single window on the first and second stories. A band of three windows are located in the half story. The southeast corner of the projecting bay is canted and marked with decorative corner brackets. The west elevation of the house is marked by a single window on the first and second stories. Though access to the property was limited to the public right-of-way, TRC observed a one-story rear addition that is attached to the west elevation of a two-story ell (see Figure B). The rear addition appears to date to the mid-twentieth

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century and is pierced by a series of four windows. Located atop the addition's roof is a porch that is bordered by a modern wood balustrade.

Located west of the house is a modern mutli-bay garage. The wood-frame building features aside-gabled roof covered with asphalt shingles and an exterior clad with vinyl siding. The roof of another outbuilding was visible from the public right-of-way, but it unknown what function this building serves.

NRHP Assessment. Architectural resource AM0350 is an example of a late-nineteenth century Queen Anne style house with Eastlake detailing in which the exterior of the building of the main block has not been significantly altered since it was constructed in the late nineteenth century. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as the window sashes, porch columns, and exterior Eastlake wood trim. Despite the construction of a one-story addition to the rear ell, the house retains its original scale and massing. As a result, it is the opinion of TRC that architectural resource AM0350 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of a Queen Anne style house with Eastlake detailing. The proposed NRHP boundary includes the area illustrated in the accompanying tax map

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM0867**

Blockface#:

Quad: Mebane
PIN: 153168, 171659, and 1716
X: 36.09107 **Y:** -79.3684
DOT Project #:
OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab
☐ **Removed** ☐ Outbldg Loss
☐ No Acc. ☐ Not Fnd ☐ FileMsg
☐ Newly ID'd ☐ Needs Resch.

Property Name: **Granite Mill**Street or 911 Address: **114 E. Main Street**Location Description: **N side E. Main Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLDate: **4/16/1981** ☒ NR NRDate: **9/18/2017** NR #: **2890**
☐ DOE DOEdate:
 DOE Type: Local Status: **Landmark** Ownership: **Private**

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0867 is a previously-recorded textile mill complex that is located at 114, 116, 122, 180, 218, 222, 224, and 226 East Main Street, Haw River 27258 and occupies three parcels (153168, 171659, and 171658) totaling 31 acres (Alamance County, NC GIS 2018; Fearnbach 2017). In 2017, the mill complex, locally known as Granite Mill, was listed on the NRHP under Criteria A and C for its significance in the areas of industry and architecture (Fearnbach 2017).

The history of Granite Mill traces back to 1844 with the construction of the original mill along the Haw River by Benjamin Trollinger, in partnership with his brother John and nephew William (Fearnbach 2017). Under Trollinger's direction, the mill was organized as the Granite Cotton Factory. By 1858, the mill operation was acquired by the Edwin Michael Holt and his son Thomas M. Holt. Under the Holt family ownership, production at the mill grew exponentially and resulted in a massive expansion to the complex in 1881. By the early 1890's, the mill complex employed 500 employees who operated nearly 9,000 spindles and 450 looms (Fearnbach 2017).

For the Holt family, the success of Granite Mills led to further mill acquisitions in Haw River. By 1873, the family owned and operated the Thomas M. Holt Manufacturing Company (AM1516/AM0203) and Cora Manufacturing Company (AM2407). The late nineteenth century witnessed the peak of the Holt family's involvement in the textile industry as they owned ten of the 19 textile mills then operating in Alamance County. Of all the mills owned by the Holt family, Granite was the largest in both the number of hired employees and the size of its manufacturing complex (Fearnbach 2017).

In 1917, the three Haw River mills operated by the Holt family were reorganized under the name Holt-Granite-Puritan Mills Company and specialized in the manufacture of cotton dress goods. By the late 1920s,

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Granite Mill was acquired by Greensboro industrialists Sidney Paine and Herman Cone and renamed the plant the Granite Finishing Works. Under Paine and Cone, the mill complex finished corduroy for shipping. The spinning and weaving of the corduroy took place at the former Cora and Thomas M. Holt mills, which were consolidated and renamed the Tabardrey Manufacturing Company (AM2408) (Fernbach 2017). In 1936, the Tabardrey Manufacturing Company is reported to have produced 3.5 million yards of corduroy, which amounted to ten percent of the total textiles produced in the United States that year (Fernbach 2017). Following the end of World War II, the Proximity Manufacturing Company, a subsidiary of larger group of textile companies operated by Paine and Cone, became Cone Mills Corporation in 1948. During this period, Granite Mill continued to manufacture finish corduroy woven at the Tabardrey plant until the latter shut down in 1983. Granite Mills continued operations dyeing and finishing chamois and flat cloth until its closure in 1997 (Fernbach 2017).

During the previous 153 years prior to its closure, the original mill site grew into an enormous textile plant encompassing 23 freestanding and interconnected buildings arranged in a U-shape. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of Granite Mills was limited to the public rights-of-way along Gravel Street and East Main Street. Accordingly, a thorough assessment of the resource's integrity could not be conducted. However, taken from the NRHP nomination, the complex is divided into three distinct, yet interconnected clusters that are identified in the nomination as the "north group", the "south cluster", and a "northeast group" (Fernbach 2017) (see Figure E).

The "north group" features a four-story L-shaped building (Building 9), which is the original 1844 mill that was later expanded in 1881, Building 10, a four-story building also constructed in 1881, and a collection of "tall one-and-two-story additions and warehouses" that were constructed between 1949 and 1985. The "south cluster" is dominated by Building 15, a two-story building constructed in 1886, which contains a series of additions that were added between 1932 and 1952. The "north group" and the "south cluster" are connected by Building 13, which consists of a tall one-story warehouse that was erected in 1980. The final building group is the "northeast", which centers around a 1947 dye house identified as Building 12.

Connected to Building 12 are a series of additions that were added between 1949 and 1966 (Fernbach 2017). NRHP Assessment. In 2017, the mill complex, locally known as Granite Mill (AM0867), was listed on the NRHP under Criteria A and C for its significance in the areas of industry and architecture (Fernbach 2017). The NRHP boundary of the resource encompasses a 31-acre tract and includes 14 contributing resources (see Figure F). Since the time of its listing on the NRHP, the resource does not appear to have been significantly altered, however, this assessment is based on the limited views and access afforded to TRC personnel at the time of its survey. Considering how recently the resource was listed on the NRHP, and coupled with TRC limited views of the property, TRC recommends that further study be undertaken to determine if Granite Mills retains sufficient integrity to remain listed on the NRHP. For these reasons, it is TRC's opinion that architectural resource AM0867 is potentially eligible for the NRHP under Criteria A and C for its significance in the areas of industry and architecture.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM1516**

Blockface#:

Quad: Mebane

PIN: 153233

X: 36.08923 Y: -79.3640

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ Removed ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Holt-Tabardrey Mills**Street or 911 Address: **105 and 205 Stone Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☒ StudyListSLDate: **10/13/2005**☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**Ownership: **Private****Principal Resource** Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0203/AM1516 is a previously-recorded textile mill complex that is located at 205 Stone Street, Haw River 27258 and occupies parcel 153233 totaling 7.4 acres (Alamance County, NC GIS 2018). Originally surveyed in 1978, the mill complex is the former T. M. Holt Manufacturing Company, which was later renamed the Cone Mills Tabardrey Plant.

The history of the T.M. Holt Manufacturing Company complex traces back to 1844 with the construction of the first textile mill along the Haw River by Benjamin Trollinger, in partnership with his brother John and nephew William (Fernbach 2017). Under Trollinger's direction, the mill was organized as the Granite Cotton Factory. By 1858, the mill operation was acquired by the Edwin Michael Holt and his son Thomas M. Holt. Under the Holt family ownership, production at the mill grew exponentially and resulted in a massive expansion to the complex in 1881. By the early 1890's, the mill complex employed 500 employees who operated nearly 9,000 spindles and 450 looms (Fernbach 2017).

For the Holt family, the success of Granite Mills led to further mill acquisitions in Haw River. By 1895, the family owned and operated the Thomas M. Holt Manufacturing Company (AM1516/AM0203) and Cora Manufacturing Company mills (AM2407). The late nineteenth century witnessed the peak of the Holt family's involvement in the textile industry as they owned ten of the 19 textile mills then operating in Alamance County (Fernbach 2017).

According to property's survey form, the T.M. Holt Manufacturing Company mill was the last of three mills that were constructed under the direction of Thomas M. Holt. The complex was initially powered by steam, but with advances in technology, the plant was powered by electricity by the early twentieth century (Lounsbury and Stokes 1978).

In 1917, the three Haw River mills operated by the Holt family were reorganized under the name Holt-Granite-Puritan Mills Company and specialized in the manufacture of cotton dress goods. By the late 1920s, Granite Mill was acquired by Greensboro industrialists Sidney Paine and Herman Cone and renamed the plant the Granite Finishing Works. Under Pain and Cone, the mill complex finished corduroy for shipping. The spinning and weaving of the corduroy took place at the former Cora and Thomas M. Holt mills, which were consolidated and renamed the Tabardrey Manufacturing Company (AM2408) (Fernbach 2017). In 1936, the Tabardrey Manufacturing Company is reported to have produced 3.5 million yards of corduroy, which amounted to ten percent of the total textiles produced in the United States that year (Fernbach 2017). Following the end of World War II, the Proximity Manufacturing Company, a subsidiary of larger group of textile companies operated by Paine and Cone, became Cone Mills Corporation in 1948. During this period, Granite Mill continued to manufacture finish corduroy woven at the Tabardrey plant until the latter shut down in 1983. Granite Mills continued operations dying and finishing chamois and flat cloth until its closure in 1997 (Fernbach 2017).

Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of the T.M. Holt Manufacturing Company mill was limited to available access roads along the periphery of the mill site. In addition, heavy vegetation covers much of the original mill building along its east elevation. Accordingly, a thorough assessment of the resource's integrity could not be conducted.

Architecturally, the mill complex was built in two episodes. The original, two-story, 1895 T.M. Holt Manufacturing Company mill building is of brick construction and features segmental arched window openings that are largely covered with plywood boards (see Figures A-C). This section of the plant is marked by a square-shaped Romanesque Revival stair-tower (see Figure A). Located north of the tower is a large, square-shaped brick smoke stack with corbelling detailing (see Figure A). Attached near the southeast corner of the building is an early twentieth century addition that is marked by a series of monitor roofs (see Figure D).

The second building episode includes the two-story Holt-Tarbardrey Mill (AM1516) that is connected to the north elevation of the 1895 mill building (see Figures E-F). This section of the complex appears to have been constructed in the 1920s and later renovated through the application of exterior metal siding on the north elevation. Fenestration on this section of the mill consists of four-light metal sash windows that are positioned along the east elevation. However, this elevation also includes many original window openings have been enclosed with. The north elevation of the 1920s building includes a docking bay and an elevated catwalk that provides access to the Cora Mill (AM2407) (see Figure F).

NRHP Assessment. Originally recorded in 1978, the T. M. Holt Manufacturing Company (AM0203) and Holt-Tarbardrey Mill (AM1516) mill complex, were two of several textile mills that were constructed in Alamance County during the late nineteenth century. Though AM0203 and AM1516 played an important role in the economic development of Haw River and were associated with the Holt family, the physical integrity of the mill complex appears poor due to neglect and vandalism. Since the time of its recordation, a portion of the original mill building appears to have collapsed and many of the original window openings have been sealed with brick or covered with plywood boards (see Figures A, B, and E). This NRHP assessment is based on the limited views and access afforded to TRC personnel at the time of its survey. Accordingly, it is the opinion of TRC that additional field work and research are necessary to determine the property's eligibility. It is therefore TRC's recommendation that the NRHP eligibility of the mill complex cannot be determined.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM1520**

Blockface#:

Quad: Ossipee

PIN: 155661

X: 36.23835 **Y:** -79.5305

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **J. M. Jordan House**Street or 911 Address: **4649 Troxler Mill Road**Location Description: **N side SR 1578, 0.10 mi W SR 1577**Town/vicinity: **Altamahaw vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 4649 Troxler Mill Road (Parcel 155661) in Burlington, previously surveyed architectural resource AM1520 is the J. M. Jordan House, which was built in 1915 according to county tax records (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM1520 was limited to the public right-of-way along Troxler Mill Road.

Located on the north side of Troxler Mill Road, AM1520 is a house with outbuildings on a 6.8-acre parcel. The previous survey form shows it is a two-story, frame, Triple-A type house with an exterior end stone chimney. At the time of the current survey, however, the parcel was completely overgrown with vegetation that blocked its view from Troxler Mill Road. The one outbuilding that was partially visible from the road is a partially-collapsed frame shed with vertical plank siding and a metal gable roof.

NRHP Assessment. Architectural resource AM1520 is overgrown with vegetation and not visible from the public right-of-way along Troxler Mill Road, which prevented TRC from evaluating its eligibility for listing in the NRHP. Additional field work and research are necessary to determine the property's eligibility.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM1522**

Blockface#:

Quad: Ossipee

PIN: 155648

X: 36.22972 **Y:** -79.5315

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **G. L. Lewis Farm**Street or 911 Address: **4860 Lee Lewis Road**Location Description: **W side SR 1577, 0.25 mi S of SR 1578**Town/vicinity: **Altamahaw vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 4860 Lee Lewis Road (Parcel 155648) in Gibsonville, previously surveyed architectural resource AM1522 is the G. L. Lewis Farmstead, which was built circa 1910 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM1522 was limited to the public right-of-way along Lee Lewis Road.

Located on the west side of Lee Lewis Road, AM1522 is a farmstead on a 68-acre parcel that contains a one-and-one-half story Triple-A type vernacular house and six outbuildings. The house and outbuildings are surrounded by agricultural fields on all sides. The house features the Triple-A roof form with exposed rafter ends. The front-facing gable has decorative wood shingle siding and the exterior walls below that have asbestos siding over the original clapboard. The east façade has three bays and a one-story partial-width front porch with a hip roof clad in metal supported by paired wood posts set on brick and concrete piers, and a wood floor. The central entrance is flanked by two one-over-one vinyl sash windows. The original six-over-six wood sash windows noted in the previous survey form have been replaced with one-over-one vinyl windows. Outbuildings include a modern open-sided equipment shed on the north side of the house, four wood frame sheds, a pole barn equipment shed, and three recently installed grain silos. The log barns across Lee Lewis Road from the house that were noted in the previous survey form have been demolished.

NRHP Assessment. Architectural resource AM1522 is a typical example of the Triple-A vernacular house type that has been substantially altered with asbestos siding and replacement windows. It does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that

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architectural resource AM2505 is not eligible for listing in the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM1523**

Blockface#:

Quad: Ossipee

PIN: 155706

X: 36.23035 Y: -79.5190

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ Removed ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Shiloh Church & Cemetery**Street or 911 Address: **4718 N NC Highway 87**Location Description: **W side NC 87, 0.2 mi S of SR 1578**Town/vicinity: **Altamahaw vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 4718 N NC Highway 87 (Parcel 155706) in Gibsonville, previously surveyed architectural resource AM1523 is the Shiloh United Methodist Church built in 1965 (Alamance County, NC WebGIS 2018)

AM1523 is a two-story Colonial Revival-style church with a circa-1990 wing addition on the south elevation. The original 1965 building has a front-gable roof, a brick veneer exterior, and an aisled nave type plan. It has a frame steeple and a central double-door entrance with a pedimented portico on the east façade along with a round stained glass window over the portico. The north and south elevations are pierced by stained glass windows. There is an education wing across the rear (west) elevation that gives the building a T-shaped footprint. There is an associated cemetery located on the north side of the church that dates to the eighteenth century (circa 1784) according to the previous survey form.

NRHP Assessment. Architectural resource AM1523 is a typical example of a mid-twentieth century Colonial Revival style church. In accordance with NRHP Criteria Consideration A, religious buildings are normally not eligible for the NRHP unless they derive their primary significance from architectural or artistic distinction or are considered to be of historical importance. The property cannot be associated with important historical event(s) or person(s). Due to lack of the historic and architectural significance it is the opinion of TRC that architectural resource AM1523 is not eligible for listing in the NRHP.

The Shiloh United Methodist Church cemetery is a typical example of a church cemetery that fails to exhibit unique features of architectural style or workmanship. In accordance with NRHP Criteria Consideration D, cemeteries are normally not eligible for the NRHP unless they derive their primary significance from graves of persons of significant importance, from age, from architectural distinction, or are considered to be of

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historical importance. Previous historical research failed to indicate that the cemetery played an integral role in local historical events. For these reasons, it is the opinion of TRC that the cemetery is not eligible for listing in the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM1529**

Blockface#:

Quad: Ossipee

PIN: 111107

X: 36.21764 Y: -79.5118

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **J. A. Gilliam House**Street or 911 Address: **4219 N NC Highway 87**Location Description: **E side NC 87, 0.3 mi S of SR 1581**Town/vicinity: **Altamahaw vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM1529 is a previously-recorded farmstead that is located at 4219 N NC Highway 87 Elon 27244 on parcel 111107 (Alamance County, NC GIS 2018) . The 29.49-acre farm is anchored by a Colonial Revival style house that is reported to have been constructed in 1915 (Alamance County, NC GIS 2018). According to the information provided in the property's survey form, the house was the home of a prominent local physician, Dr. J.S. Gilliam (Briggs & Co. 2002). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM1529 was limited to the public right-of-way along NC Highway 87.

The two-story, wood-frame building features a pyramidal roof covered with asphalt shingles, an interior brick chimney, an exterior clad with vinyl siding, and 1/1 double-hung sash windows. Facing west, the façade is marked with an off-centered door that is accessible via a full-façade porch. The porch contains a flat roof that is supported by four columns. A hipped-roof wing is attached to the north elevation.

According to the nomination form, the property includes at least four additional agricultural-related outbuildings that are located east of the principal residence (Briggs & Co. 2002).

NRHP Assessment. Architectural resource AM1529 is partly obscured by large magnolia trees and other mature trees that prevented from the public right-of-way along NC Highway 87, which prevented TRC from adequately evaluating its eligibility for listing in the NRHP. Additional field work and research are necessary to assess the property's eligibility. Based on the property's association with local physician Dr. Gilliam and as an apparent intact farmstead with a strong collection of early-to-mid-twentieth century outbuildings, it is the opinion of TRC that architectural resource AM1529 is potentially eligible for the NRHP under Criteria B and C for its historical and architectural significance.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
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Tobacco Barn

- A mid-to-late twentieth century tobacco barn. The wood-frame structure features a side-gabled roof covered with standing seam metal and an exterior clad with metal panel siding. Attached to the north and south elevations are shed-roof wings

Guest House

- An early twentieth century side-gabled roof building that may function as a guest house. The building is clad with vinyl siding

Hay Barn

- An early twentieth century hay barn. The wood-frame structure features a gable-front roof covered with standing seam metal and an exterior clad with vertical wood boards. A central open bay is positioned on the south elevation. Three additional open bays are located on the east elevation

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM1595**

Blockface#:

Quad: Mebane
PIN: 17 parcels, see description
X: 36.09073 **Y:** -79.3655
DOT Project #:
OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab
☐ **Removed** ☐ Outbldg Loss
☐ No Acc. ☐ Not Fnd ☐ FileMsg
☐ Newly ID'd ☐ Needs Resch.

Property Name: **Haw River Central Business District**Street or 911 Address: **E Main Street**Location Description: **NC 49**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**
☐ DOE DOEdate:
 DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM1595 is a previously-recorded commercial district that is located primarily along the 200 block of East Main Street in Haw River, 27258 (Briggs, Barkhau, Miller 2002) (see Figure X; Figures A-L). The county parcels encompassing the district include: 153240, 153239, 153238, 153236, 153232, 153166, 153165, 153164, 153163, 153162, 153160, 153159, 153158, 153175, 153176, 153237, 153241 (Alamance County, NC GIS 2018). According to the survey form, this segment of East Main Street is the central business core of Haw River and “reflects the growth of the village and the Granite Mill across the street” (Briggs, Barkhau, Miller 2002). At the time of its initial recordation, a total of 13 buildings were identified within the district. However, three ca. 1900 brick commercial buildings (211, 215, and 223 East Main Street) have since been destroyed and are now vacant lots. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM1595 was limited to the public right-of-way along East Main Street.

Extant buildings that were identified in 2002 include:

304 East Main Street (Parcel# 153241). Newly recorded architectural resource AM2590 has a reported construction date of 1920 (Alamance County, NC WebGIS 2018) (Figure X; Figures A and B). The building is locally known as the R. Flynt Building. This is a single-story brick commercial building with a rectangular layout. The building features a flat roof, terra cotta coping, and a brick foundation. The façade elevation contains a replaced storefront and a brick sidewalk. Located on the primary elevation is a modern Pepsi sign that reads “R. Flynt” (see Figure A);

302 East Main Street (Parcel# 153237). Newly-recorded architectural resource AM2592 has a reported construction date of 1903 (Alamance County, NC WebGIS 2018). This is a brick commercial building with a

rectangular layout. Though the building was constructed in 1903, it is likely that the entire façade was remodeled at some point in the mid-twentieth century. The building features a flat roof, terra cotta coping, and a brick foundation. The primary elevation contains replaced wood sash store windows and the main entry is filled with a replaced door. Located on the facade elevation is a pent roof attached above the first-floor windows (see Figure B);

101 Gravel Street (Parcel# 153176). A warehouse that is reported to have been constructed in 1968 (Alamance County, NC WebGIS 2018). This one-story building that features a side-gabled roof covered with metal sheeting, an exterior clad with metal sheeting, and a continuous concrete foundation. Fenestration includes an overhead bay door on the south elevation and a pedestrian door on the east elevation (see Figure C);

250 East Main Street (Parcel# 153175). Newly-recorded architectural resource AM2597 is a single-story commercial building that is reported to have been constructed in 1901 (Alamance County, NC WebGIS 2018). This building features a stepped flat roof, an exterior clad with a brick veneer, and a continuous brick foundation. The building's east elevation includes three door openings that contain single leaf wood panel doors. In addition, the elevation includes a vehicle bay that contains an overhead wood panel door (see Figure D);

247 East Main Street (Parcel# 153240) Newly-recorded architectural resource AM2593 is a Craftsman bungalow-style house that is reported to have been constructed in 1924 (Alamance County, NC WebGIS 2018). AM2593 is a one-and-one-half-story house that features a side-gabled roof covered with asphalt shingles, an exterior end brick chimney, and an aluminum siding-clad exterior. Fenestration includes 4/1 double-hung wood sash windows. A full-width porch provides access to the main entrance and is integral with the main roof, which is partially supported by tapered wood columns set atop brick plinth blocks. The porch features a modern concrete block deck (see Figure E);

243 East Main Street (Parcel# 153239) Newly-recorded architectural resource AM2594 is a hipped-roof house that is reported to have been constructed in 1929 (Alamance County, NC WebGIS 2018). AM2594 is a one-story house that features a roof covered with asphalt shingles, an interior central concrete chimney, a vinyl siding-clad exterior, and a brick pier foundation with concrete block infill. Fenestration includes 6/6 double-hung vinyl sash windows. A reconstructed partial-width porch provides access to the main entrance and features a hipped roof that is supported by ornamental metal columns and a concrete slab deck (see Figure F);

209 East Main Street (Parcel# 153162) A single-story, brick commercial building with a reported construction date of 1956 (Alamance County, NC WebGIS 2018). The building's façade is marked with a recessed entrance that contains a pair of metal-glass doors topped by a four-light transom containing single-panes set in aluminum sash. The façade is clad with Roman brick and features a cantilevered flat roof that contains three recessed lights (see Figure G);

207 East Main Street (Parcel# 153160) A single-story, brick commercial building with a reported construction date of 1950 (Alamance County, NC WebGIS 2018). The exterior of the building's facade is sheathed with stucco and is marked with a centrally placed entrance. The entrance contains a pair of metal-glass doors that are shielded by a fabric awning. The doors are flanked on either side by a pair of large store windows that rest on bulkheads clad with black and white tiles. Highlighting the upper portion of the façade is an embossed rectangular-shaped panel (see Figure H);

205 East Main Street (Parcel# 153159) A single-story, brick commercial building with a reported construction date of 1901 (Alamance County, NC WebGIS 2018). The exterior of the building's facade is sheathed with stucco and is marked with an off-center entrance that is marked by a metal-glass door. The main entrance is accessible via a modern concrete stoop containing a ramp on the north elevation and a set of steps on the south elevation. A fabric awning indicates that the building houses the "Haw River Flooring Company". The main entrance is flanked on either side by segmental arched window openings containing a two-light, fixed sash window set in a metal sash. Positioned south of the main entrance is a segmental arched door opening that has been filled with a single-pane window. Flanking this opening is an original segmental arched window with a two-light, fixed metal sash. The building is accented with a heavily articulated cornice marked with dentil molding (see Figure I).

201 East Main Street (Parcel# 153158) Newly recorded architectural resource AM2596 is the Haw River Museum, a former commercial building that is reported to have been constructed in 1901 (Alamance County, NC WebGIS 2018). AM2596 is a one-story building composed of brick laid in a common bond, features a flat metal roof and a continuous brick foundation. Fenestration includes double-hung 6/6 wood sashes and fixed 16-lite vinyl sashes. Two original window openings have been infilled with brick. A brick and concrete staircase provide access to the building on the north elevation and a non-historic door has been installed on the west elevation (see Figure J).

NRHP Assessment. Recorded in 2002 as the Haw River Central Business District, architectural resource AM1595 contains a collection of 8 commercial buildings and two residences with construction dates that range from 1901 to 1968. Overall, the historic integrity of the district is poor due to the demolition of three buildings that were initially recorded in 2002. In addition, the remaining extant buildings have received substantial modern alterations that have included the replaced of original window sashes, doors, and reconstructed facades. Overall, the district fails to represent a significant and distinguishable entity whose components may lack individual distinction. Due to its poor integrity, it is the opinion of TRC that architectural resource AM1595 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2407**

Blockface#:

Quad: Mebane
PIN: Parcels 153242 and 15324
X: 36.09047 **Y:** -79.3643
DOT Project #:
OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab
☐ **Removed** ☐ Outbldg Loss
☐ No Acc. ☐ Not Fnd ☐ FileMsg
☐ Newly ID'd ☐ Needs Resch.

Property Name: **Cora Mill**Street or 911 Address: **105 Stone Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☒ StudyList SLDate: **10/13/2005** ☐ NR NRDate: NR #: **None**
☐ DOE DOEdate:
 DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 105 and 115 Stone Street (Parcels 153242 and 153248) in Haw River, previously surveyed architectural resources AM2407 and AM2408 are the extant remains of the abandoned Tabardrey Mill (Alamance County, NC WebGIS 2018) . Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resources AM2407 and AM2408 was limited to the public right-of-way along Stone Street.

The Tabardrey Mill is located on a wedge-shaped parcel bordered by Stone Street on the east, East Main Street on the north, and the railroad on the south. The mill has been abandoned since 1998 and several of the mill's original support buildings on the southeast corner of this parcel have been demolished. AM2407 is the original circa-1901 Tabardrey Mill building that features several later additions and alterations. The building is oriented along a northeast-to-southwest axis and is connected to the associated Cora Mill (AM0203 and AM1516) across the railroad tracks to the south via an elevated, enclosed metal walkway.

The Tabardrey Mill is a three-story building with a built-up roof and a four-story staircase tower at the southwest corner. The building featured the innovative Praray structural system, first developed in 1894 by Charles A. Praray and nicknamed "zigzag wall construction" due to the repeated left and right turns of the exterior wall lines. In traditional mill construction the floor beams and rafters were supported by the exterior walls, which had to feature massive construction to carry the weight of the floors and mill equipment. This had the effect of making construction expensive and limited the number of windows that could be placed in the walls. The Praray system made it possible to separate the floor loads from the exterior wall construction. "In my improved method of construction," Praray wrote, "it is seen that the walls do not support the floors at all, nor the weight upon the floors, but are wholly independent thereof. They serve simply to cover in or

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enclose the structure. They rest upon their own foundation, and serve to support the windows and carry their weight and no more” (Kim et al. 2002). This structural system was cheaper to build, afforded greater space for windows on the exterior walls, and was easier to repair in case of fire. The interior of the original mill building had an open floor plan that was three bays wide by 27 bays long with elevators and stair towers at the corners. Later additions in the 1940s and 1960s altered the appearance of the mill and largely obscured the zigzag walls except for along the southwest elevation (Figure A). The original exterior windows were removed in the 1970s when air conditioning was installed in the mill (Kim et al. 2002).

Located immediately northeast of the Tabardrey Mill (AM2407) is AM2408, a mill warehouse that was built in 1950 according to county tax records. It has a built-up roof, a concrete panel exterior, a brick and concrete foundation, and a rectangular plan. The east façade along Stone Street features a board and batten exterior along full-width, three-bay loading dock covered by a metal shed roof supported by square wood posts. The warehouse has no windows. There is a one-story brick addition on the south elevation with a flat roof.

NRHP Assessment. The original Tabardrey Mill was built circa 1901 by members of the Holt family, who also built the Cora Mill (AM0203 and AM1516) in 1880 across the railroad tracks immediately to the south. The Tabardrey Mill is potentially eligible for listing in the NRHP under Criterion A for its association with the textile industry in Haw River and Alamance County. Additional research and architectural survey is needed to place the mill in this historic context and evaluate its significance. Additional research is also needed to identify significant people associated with the mill who may qualify it for listing under Criterion B. TRC recommends that the Tabardrey Mill is not eligible for listing under Criterion C due to loss of integrity, specifically the enclosing of the distinctive Praray structural system’s unique “zigzag” wall construction. Additionally, in the 1970s, the mill’s original windows were removed and enclosed when air conditioning was installed in the building. These alterations and additions diminished the mill’s integrity of design, materials, and workmanship, and render it not eligible for its design or construction.

Resource AM2408 is a typical warehouse from the mid-twentieth century that does not exhibit a distinctive architectural style or workmanship. The property is not associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that resource AM2408 is not eligible for listing in the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2408**

Blockface#:

Quad: Mebane
PIN: Parcels 153242 and 15324
X: 36.09096 **Y:** -79.3638
DOT Project #:
OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab
☐ **Removed** ☐ Outbldg Loss
☐ No Acc. ☐ Not Fnd ☐ FileMsg
☐ Newly ID'd ☐ Needs Resch.

Property Name: **Tabardrey Mills Warehouse**Street or 911 Address: **115 Stone Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**
☐ DOE DOEdate:
 DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 105 and 115 Stone Street (Parcels 153242 and 153248) in Haw River, previously surveyed architectural resources AM2407 and AM2408 are the extant remains of the abandoned Tabardrey Mill (Alamance County, NC WebGIS 2018) (Figures A-E). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resources AM2407 and AM2408 was limited to the public right-of-way along Stone Street.

The Tabardrey Mill is located on a wedge-shaped parcel bordered by Stone Street on the east, East Main Street on the north, and the railroad on the south. The mill has been abandoned since 1998 and several of the mill's original support buildings on the southeast corner of this parcel have been demolished. AM2407 is the original circa-1901 Tabardrey Mill building that features several later additions and alterations. The building is oriented along a northeast-to-southwest axis and is connected to the associated Cora Mill (AM0203 and AM1516) across the railroad tracks to the south via an elevated, enclosed metal walkway.

The Tabardrey Mill is a three-story building with a built-up roof and a four-story staircase tower at the southwest corner. The building featured the innovative Praray structural system, first developed in 1894 by Charles A. Praray and nicknamed "zigzag wall construction" due to the repeated left and right turns of the exterior wall lines. In traditional mill construction the floor beams and rafters were supported by the exterior walls, which had to feature massive construction to carry the weight of the floors and mill equipment. This had the effect of making construction expensive and limited the number of windows that could be placed in the walls. The Praray system made it possible to separate the floor loads from the exterior wall construction. "In my improved method of construction," Praray wrote, "it is seen that the walls do not support the floors at all, nor the weight upon the floors, but are wholly independent thereof. They serve simply to cover in or

enclose the structure. They rest upon their own foundation, and serve to support the windows and carry their weight and no more” (Kim et al. 2002). This structural system was cheaper to build, afforded greater space for windows on the exterior walls, and was easier to repair in case of fire. The interior of the original mill building had an open floor plan that was three bays wide by 27 bays long with elevators and stair towers at the corners. Later additions in the 1940s and 1960s altered the appearance of the mill and largely obscured the zigzag walls except for along the southwest elevation (Figure A). The original exterior windows were removed in the 1970s when air conditioning was installed in the mill (Kim et al. 2002).

Located immediately northeast of the Tabardrey Mill (AM2407) is AM2408, a mill warehouse that was built in 1950 according to county tax records. It has a built-up roof, a concrete panel exterior, a brick and concrete foundation, and a rectangular plan. The east façade along Stone Street features a board and batten exterior along full-width, three-bay loading dock covered by a metal shed roof supported by square wood posts. The warehouse has no windows. There is a one-story brick addition on the south elevation with a flat roof.

NRHP Assessment. The original Tabardrey Mill was built circa 1901 by members of the Holt family, who also built the Cora Mill (AM0203 and AM1516) in 1880 across the railroad tracks immediately to the south. The Tabardrey Mill is potentially eligible for listing in the NRHP under Criterion A for its association with the textile industry in Haw River and Alamance County. Additional research and architectural survey is needed to place the mill in this historic context and evaluate its significance. Additional research is also needed to identify significant people associated with the mill who may qualify it for listing under Criterion B. TRC recommends that the Tabardrey Mill is not eligible for listing under Criterion C due to loss of integrity, specifically the enclosing of the distinctive Praray structural system’s unique “zigzag” wall construction. Additionally, in the 1970s, the mill’s original windows were removed and enclosed when air conditioning was installed in the building. These alterations and additions diminished the mill’s integrity of design, materials, and workmanship, and render it not eligible for its design or construction.

Resource AM2408 is a typical warehouse from the mid-twentieth century that does not exhibit a distinctive architectural style or workmanship. The property is not associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that resource AM2408 is not eligible for listing in the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2490**

Blockface#:

Quad:

PIN: 155677

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuildings**Street or 911 Address: **4965 Lee Lewis Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2490 is a log outbuilding associated with a 20th century dwelling located at 4965 Lee Lewis Road, Gibsonville, NC 27249 (see Map, Figure X). The parcel number is 155677. The dwelling was constructed in 1975 (Alamance County, NC WebGIS 2018). The parcel includes several outbuildings that predate the dwelling, including what appears to be a log tobacco barn clad with metal siding. The outbuilding has a gabled metal clad roof and appears to have been constructed c. 1930, based on similar inventoried resources in the project area.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2490 was limited to the public right-of-way along Lee Lewis Road.

NRHP Assessment. Architectural resource AM2490 features a 1975 dwelling and early twentieth-century outbuildings. The inventoried resource, a log tobacco barn, does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the barn and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2490 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2491**

Blockface#:

Quad:

PIN: 155710

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **4926 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2491 is a 20th century dwelling with related agricultural buildings located at 4926 N NC 87 Highway, Gibsonville, NC 27249 (see Map, Figure X). The parcel number is 155710. The two-story dwelling was constructed in 1936 (Alamance County, NC WebGIS 2018). The dwelling has a front facing gable, interior central brick chimney, end gable plan roof and exterior vinyl siding. The foundation is brick. Windows are nine-over-nine design. The façade features a one-story shed (c. 1960) porch supported by wrought iron columns. Within the porch bay is an original six-light paneled door. The dwelling has a rear single-story wing with an enclosed shed porch. The parcel supports several outbuildings, including a vertical board shed with a metal gabled roof, gable-front plan garage with horizontal board siding and exposed eave rafters, a frame shed with corrugated metal siding and a gabled equipment shed with corrugated metal siding.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2491 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2491 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Alterations such as the addition of vinyl siding have compromised the dwelling's architectural integrity. Based on the lack of architectural merit and contemporary changes, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2491 is not eligible for the NRHP.

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Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2492**

Blockface#:

Quad:

PIN: 155708

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **4840 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2492 is a 20th dwelling with outbuildings located at 4840 N NC 87 Highway, Gibsonville, NC 27249 (see Map, Figure X). The parcel number is 155708. The associated dwelling was constructed in 1940 (Alamance County, NC WebGIS 2018). The 1.5-story Tudor Revival style dwelling has a gabled roof, exterior synthetic siding and a concrete foundation. Windows are original six-over-six. The façade features a gabled off-center porch with milled columns, offset by an exterior brick chimney. The entry bay retains an original three-light paneled door. At the north end of the dwelling is an original one-story screened porch. The parcel also supports a combination garage/barn with shed wings and two agricultural-related outbuildings.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2492 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2492 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Alterations such as the addition of vinyl siding have compromised the dwelling's architectural integrity. Based on the lack of architectural merit and contemporary changes, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2492 is not eligible for the NRHP.

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Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2493**

Blockface#:

Quad:

PIN: 155704

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **4646 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2493 is a 20th century dwelling with related agricultural buildings located at 4646 N NC 87 Highway, Gibsonville, NC 27249. The parcel number is 155704. The associated dwelling was constructed in 1968 (Alamance County, NC WebGIS 2018). The one-story Ranch-influenced dwelling has a low-pitched gabled roof, exterior brick veneer and brick covered foundation. Windows are replacement one-over-one. The façade features a one-story central gabled porch with wrought iron columns. Within the porch bay is a paneled central door. The dwelling has a rear shed wing. The house is associated historically with several outbuildings, most of which are no longer included with the current property definitions. Within the current parcel, the property includes two sheds and two frame barns. Most outbuildings appear older than the dwelling. The sheds have exterior weatherboard siding and metal clad roofs. Barns are vertical board with metal roofs.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2493 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2493 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2493 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2494**

Blockface#:

Quad:

PIN: 155703

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3955 Jug House Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2494 is a 20th century dwelling located at 3955 Jug House Road, Gibsonville, NC 27249 . The parcel number is 155703. The dwelling was constructed in 1952 (Alamance County, NC WebGIS 2018). The one-story dwelling has a gabled roof, exterior vinyl siding and a concrete block foundation. Windows are one-over-one, replacement. The façade features a central gabled portico with contemporary columns. The dwelling has a rear one-story gabled wing (Figures A-B). The parcel also supports a large prefabricated metal barn and corrugated metal shed

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2494 was limited to the public right-of-way along Jug House Road.

NRHP Assessment. Architectural resource AM2494 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Alterations such as the addition of vinyl siding have compromised the dwelling's architectural integrity. Based on the lack of architectural merit and contemporary changes, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2494 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2495**

Blockface#:

Quad:

PIN: 111061

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding**

Street or 911 Address:

Location Description: **N NC 87 Hwy**Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2495 is a 20th century barn located at west of N NC 87 Highway and south of Jug House Road, Gibsonville, NC 27249. The parcel number is 111061 (Alamance County, NC WebGIS 2018). The barn appears to have been constructed c. 1960 based on the form and building materials associated with the building. The frame barn has an open bay with a sliding track door and metal clad gabled roof.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2495 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2495 features a mid-twentieth-century barn that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and lack of associated dwelling/outbuildings, as well as the inability to associate the barn and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2495 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2496**

Blockface#:

Quad:

PIN: 111103

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **4075 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2496 is a 20th century dwelling located at 4075 N NC 87 Highway, Elon, NC 27244. The parcel number is 111103. The one-story Ranch style dwelling was constructed in 1959 (Alamance County, NC WebGIS 2018). The dwelling has a gabled roof with a front facing gable that holds the entry bay/engaged stoop, which are off-center. The dwelling has brick exterior walls and a brick covered foundation. Windows are one-over-one and tri-part design. The lights appear to have been replaced c. 1990. The north elevation holds a secondary entry. The property also features a contemporary carport and outbuilding east of the house.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2496 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2496 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2496 is not eligible for the NRHP.

Outbuildings/Features**Actions**

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Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2497**

Blockface#:

Quad:

PIN: 111102

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **4057 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2497 is a 20th century dwelling located at 4057 N NC 87 Highway, Elon, NC 27244 . The parcel number is 111102. The single story Ranch style dwelling was constructed in 1957 (Alamance County, NC WebGIS 2018). The dwelling has a gabled roof and exterior brick veneer. The primary elevation is situated off-center on the façade and holds a replacement door. Offsetting the entry to the south is an original picture style window and wide exterior stone chimney. Stone of similar cut/color is set below the picture window and also along a planting border below the window. The north end of the dwelling has a facing gable wing an upper narrow picture style window. The gable field has original asbestos siding. Remaining windows are horizontal sash double-hung design.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2497 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2497 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2497 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2498**

Blockface#:

Quad:

PIN: 111079

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Gilliam Church Cemetery**Street or 911 Address: **4036 N NC 87 Highway**Location Description: **N NC 87 Hwy**Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2498 is Gilliam Church Cemetery located at 4036 N NC 87 Highway, Elon, NC 27244. The parcel number is 111079. The parcel includes a church constructed in 1979, Gilliam Primitive Baptist Church (Alamance County, NC WebGIS 2018). The congregation was established in 1824. The cemetery holds late nineteenth-twentieth century burials. To date, 243 burials have been recorded, available on Find A Grave-NC Cemeteries (Alamance County, 2018). Headstones are marble and granite. Burials are oriented east/west and include obelisks, traditional headstones and small granite and marble markers, many of which are pyramidal. The associated church, constructed in 1979, is a gable-front plan building with exterior brick veneer. The primary bay faces east and features a full-width gabled porch. Within the porch bay are paired paneled doors below a broken pediment.

The cemetery and church appear to be historically related to three properties along the east side of N NC 87 Highway:

A former school, Gilliam's Academy, constructed in 1925. The building is located at 4031 N NC 87 Highway, parcel number is 111105. The former 2-story school has a recessed central porch with Tuscan columns. Flanking gabled wings frame the porch and entry.

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A brick dwelling with attached garage, constructed in 1959. The property is located at 4027 N NC 87 Highway, parcel number is 111104. The moderne-influenced residence has a flat roof, rounded corners and exterior brick veneer; the attached garage is likewise designed in the same manner and retains an original molded metal awning.

The Primitive Baptist Library, constructed in 1950. The building is located at 4023 N NC 87 Highway, parcel number is 111093. The Tudor-Revival influenced building has a gabled roof with cross-gabled front wings and is clad with brick and stone.

NRHP Assessment. Architectural resource AM2498 is a late nineteenth/twentieth-century cemetery that in addition to the church north of the cemetery, appears to be associated with an early twentieth-century school and mid-twentieth-century residence and library. These properties appear potentially eligible for the National Register of Historic Places under Criterion A: Education and possibly Criterion C: Architecture. Further research is recommended to provide information about the five properties (cemetery, church, school, library, residence) that are associated with the Gilliam community.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2499**

Blockface#:

Quad:

PIN: 1734840

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3506 Gilliam Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2499 is a 20th century barn located at 3506 Gilliam Road, Elon, NC 27244. The parcel number is 1734840 (Alamance County, NC WebGIS 2018). The barn appears to have been constructed c. 1940 based on its form and building materials. The primary (south) elevation faces Gilliam Road. The barn is vertical board construction with corrugated metal siding. The roof is gabled, clad with corrugated metal. Windows are six-over-six, offsetting a missing door on the south elevation. Much of the foundation is missing; what remains is concrete block.

NRHP Assessment. Architectural resource AM2499 features a barn that does not exhibit distinctive characteristics of its architectural style or workmanship. The barn lacks associated outbuildings or a primary dwelling on the parcel. Due to the building's common architectural form and lack of associated person(s) or event(s) of historical importance, it is the opinion of TRC that architectural resource AM2499 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2500**

Blockface#:

Quad:

PIN: 111092

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3905 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2500 is a 20th century dwelling located at 3905 N NC 87 Highway, Elon, NC 27244 . The parcel number is 111092. The dwelling was constructed in 1940 (Alamance County, NC WebGIS 2018). The single-story dwelling has a gabled central wing with front facing gabled wings on either end (north/south). The T-plan dwelling has a brick exterior and central brick chimney. Windows are eight-over-eight design. The façade features a recessed central porch offset on the north by a projecting multi-light window bay. The entry is off center and the porch elevation is clad with vinyl siding. Associated with the property is a concrete block barn with a metal clad gabled roof. The barn has shed metal open wings. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2500 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2500 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and contemporary changes, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2500 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Tuesday, November 20, 2018

Historic Property Survey Summary

County: **Alamance**SSN: **AM2501**

Blockface#:

Quad:

PIN: 118964

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3853 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2501 is a 20th century dwelling located at 3853 N NC 87 Highway, Elon, NC 27244. The parcel number is 118964. The dwelling was constructed in 1957 (Alamance County, NC WebGIS 2018). The Ranch style dwelling has a central two-story front-gabled wing flanking end-gable plan one-story wings. The upper elevation and northern most wing are clad with synthetic siding. The remainder of the dwelling is clad with brick veneer. The primary entry is offset immediately north of the projecting wing. The entry bay holds a multi-light door flanked by sidelights. North of the entry is an exterior wide brick chimney. Windows are six-over-six and one-over-one design.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2501 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2501 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2501 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2502**

Blockface#:

Quad:

PIN: 111072

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3920 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2502 is a 20th century dwelling located at 3920 N NC 87 Highway, Elon, NC 27244 . The parcel number is 111072. The 1.5-story dwelling was constructed in 1951 (Alamance County, NC WebGIS 2018). The wing and gable plan dwelling has a gabled roof, exterior synthetic siding and brick foundation. Windows are six-over-six design. The façade features a recessed integral shed porch supported by unfinished logs. The entry is off-center within the porch bay and holds an original six-light paneled door. There is a single-gabled dormer above the porch. The north elevation has an exterior end brick chimney.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2502 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2502 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Alterations such as the addition of synthetic siding have compromised the dwelling's architectural integrity. Based on the lack of architectural merit and alterations, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2502 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2503**

Blockface#:

Quad:

PIN: 118966

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3919 N. NC 87 Hwy**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2503 is a 20th century dwelling located at 3919 N NC 87 Highway, Elon, NC 27244. The parcel number is 118966. The 1.5-story dwelling was constructed in 1916 (Alamance County, NC WebGIS 2018). The Bungalow style dwelling has a gabled roof, exterior vinyl siding and brick foundation. Windows are one-over-one replacement. The façade features a full-width shed porch supported by tapered columns on brick piers. Within the porch bay, the entry is centered and filled with an original multi-light Craftsman door flanked by sidelights. The entry is off-center within the porch bay and holds an original six-light paneled door. There is a large shed dormer above the porch.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2503 was limited to the public right-of-way along N NC 87 Highway.

NRHP Assessment. Architectural resource AM2503 features a Bungalow that has been altered with the addition of exterior vinyl siding and replacement of original windows. Based on the lack of architectural merit and alterations, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2503 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2504**

Blockface#:

Quad:

PIN: 118981

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3460 Altamahaw Race Track Road**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. AM2504 is a 20th century dwelling with agricultural outbuildings located at 3460 Altamahaw Race Track Road, Elon, NC 27244. The parcel number is 118981. The two-story dwelling was constructed in 1910 (Alamance County, NC WebGIS 2018). The altered dwelling has a gabled roof with facing gables on either end (north/south) of the dwelling. The house is clad with brick and has a brick foundation. Windows are one-over-one replacement. The façade features a central one-story gabled porch with Tuscan columns. The entry within the porch holds an arched light paneled door flanked by slender sidelights. At the south end of the dwelling is a brick porch which holds a secondary entry that faces north. The porch extends to the west, connecting to contemporary one-story wing that has sliding glass doors and a multi-light door (north elevation). The rear (west) elevation has a single-story shed wing with replacement windows. Situated west of the dwelling is a brick well house with a gabled roof. Outbuildings include a brick garage, a log two-story barn with a shed one-story open wing and metal clad gabled roof and a single-story gable-front shed with horizontal siding and a metal clad roof.

NRHP Assessment. Architectural resource AM2504 features an altered 1910 dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and contemporary changes, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2491 is not eligible for the NRHP.

Outbuildings/Features

Tuesday, November 20, 2018

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2505**

Blockface#:

Quad:

PIN: 8859213124

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3421 Altamahaw Race Track Road**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

. Located at 3421 Altamahaw Race Track Road (Parcel 119013) in Elon, newly-recorded architectural resource AM2505 was built in 1942 (Alamance County, NC WebGIS 2018) . Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2505 was limited to the public right-of-way along Altamahaw Race Track Road. AM2505 is a one-story vernacular house with a gable-front roof and a stucco exterior. The asymmetrical façade is dominated by a partial-width wraparound front porch with a side-gable roof, decorative iron posts set on parged plinths, and a poured concrete floor. There is a central entrance flanked by two Chicago-type picture windows with replacement one-over-one vinyl sashes. There are single and paired one-over-one vinyl sash windows throughout the rest of the house. The house has a single interior brick chimney.

NRHP Assessment. Architectural resource AM2505 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2505 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2506**

Blockface#:

Quad: Burlington

PIN: 118752

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ Removed ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Ace Speedway Race Track**Street or 911 Address: **3401 Altamahaw Race Track Road**Location Description: **Altamahaw Race Track Rd**Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**Ownership: **Private****Principal Resource** Material Integrity: **Low** Condition: **Good** Location Integrity: **Original**Architectural Data: Date(s): **1956, 1984, 1989, 1998**Major Style Group(s) **Std Comm/Indust**Construction: **Concrete**Ext. Material: **Other**Later Covering: **None**Height: **1 story** Roof: **N/A**Plan: **Other**Core Form (Domestic): **N/A -Unspecified**Design Source and attribution: **Unknown**Major Theme: **Entertainment-Recreation**

2nd Theme:

Group Association:

Religious Affiliation

Historic Function: **Recreation/Culture - sports facility****Written Summary:**

AM2506 contains a four-tenths of a mile asphalt track and a collection of buildings and structures, including a ticket booth, restrooms, concession stands, grandstands, VIP suites, and retaining walls. Originally built as a one-third mile dirt track in 1956, the track was expanded in size in 1984 and then paved in 1989. The track was expanded to its current length and many of its support buildings constructed in 1998. Architectural resource AM2506 is associated with the history of car racing in Alamance County since the 1950s but has been substantially altered since that time and does not retain integrity.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2507**

Blockface#:

Quad:

PIN: 172226

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3404 Altamahaw Race Track Road**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3404 Altamahaw Race Track Road (Parcel 172226) in Elon, newly-recorded architectural resource AM2507 is a former automobile service station built circa 1950 (Alamance County, NC WebGIS 2018) (Figure A). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2507 was limited to the public right-of-way along Altamahaw Race Track Road.

AM2507 is a one-story former service station with a flat roof with terra cotta coping, concrete block construction, a poured concrete foundation, and a rectangular plan. The façade has two garage bays with a business/retail area at the north end. The office area features a central entrance with a half-glass panel door flanked by four-light commercial windows. Between the garage bays and around the sides of the building are two-light horizontal sliding windows. There are exterior end concrete block chimneys on the north and south elevations. The pump island is removed and the station is abandoned.

NRHP Assessment. Architectural resource AM2507 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2507 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2508**

Blockface#:

Quad:

PIN: 118765

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3540 Bagbey Trail**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3540 Bagbey Trail (Parcel 118765) in Elon, newly-recorded architectural resource AM2508 was built circa 1963 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2508 was limited to the public right-of-way along Bagbey Trail.

AM2508 is a one-story Minimal Traditional house with a side-gable roof and a brick veneer exterior. The façade features an offset entrance with a glazed wood door, a brick stoop sheltered by a metal awning, and three two-over-two horizontal sash windows covered with metal awnings. At the south end of the house is an enclosed garage with a modern metal carport attachment extending out over the paved driveway. There are two storage outbuildings in the rear yard, including a shed roof garage with a metal roof and exterior, and a gable roof storage shed clad in metal.

NRHP Assessment. Architectural resource AM2508 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2508 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2509**

Blockface#:

Quad:

PIN: 118767

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2843 Holyfield Road**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2843 Holyfield Road (Parcel 118767) in Elon, newly-recorded architectural resource AM2509 was built circa 1900 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2509 was limited to the public right-of-way along Bagbey Trail.

Located on a 68-acre parcel, AM2509 is a one-story Triple-A house that has a hip roof with lower cross gables, vinyl siding, and a concrete block foundation. The west façade is sheltered by a wraparound front porch supported by square and round posts. The front entrance has a modern replacement door and all of the windows are six-over-six replacement vinyl sash. There is a single rear exterior brick chimney. Outbuildings include a modern wood frame shed with plywood exterior and a gambrel roof barn with a metal roof.

NRHP Assessment. Architectural resource AM2509 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2509 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2510**

Blockface#:

Quad:

PIN: 118764

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3368 Dodd Road**

Location Description:

Town/vicinity: **Elon**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3368 Dodd Road (Parcel 118764) in Elon, newly-recorded architectural resource AM2510 was built circa 1900 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2510 was limited to the public right-of-way along Bagbey Trail.

Located on a 68-acre parcel, AM2510 is a one-and-one-half story Cape Cod type house with a side gable roof and a lower front gable portion containing the entrance. It has asbestos shingle siding, a brick foundation, and both an interior and a gable end brick chimney. The windows are six-over-six wood sash with vinyl faux shutters. The front entrance has a broken pediment and is approached via a brick stoop.

NRHP Assessment. Architectural resource AM2510 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2510 is not eligible for listing in the NRHP

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2511**

Blockface#:

Quad:

PIN: 118777

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3317 Altamahaw Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3317 Altamahaw Union Ridge Road (Parcel 118777) in Burlington, newly-recorded architectural resource AM2511 was built in 1915 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2511 was limited to the public right-of-way along Bagbey Trail. Located on the north side of Altamahaw Union Ridge Road, AM2511 is a one-story Ranch house with a side-gable roof and a brick veneer exterior. The façade features an offset recessed entrance with a brick stoop flanked by a three-part picture window and a pair of one-over-one double hung vinyl sash windows. There is an exterior end brick chimney on the west elevation. There are two modern metal carports in the rear yard and two frame storage shed outbuildings in the yard to the east of the house.

NRHP Assessment. Architectural resource AM2511 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2511 is not eligible for listing in the NRHP

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2512**

Blockface#:

Quad:

PIN: 118797

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2508 Basin Creek Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Located at 2508 Basin Creek Road (Parcel 118797) in Burlington, newly-recorded architectural resource AM2512 was built circa 1910 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2512 was limited to the public right-of-way along Bagbey Trail.

Located on the south side of Basin Creek Road, AM2512 is a one-story Triple A type vernacular house with a side gable roof, vinyl siding, and a concrete block foundation. There are one-story ell additions on the west and south (rear) elevations of the house. The three bay façade of the original portion of the house has a central entrance flanked by six-over-six wood sash windows. The façade is sheltered by a partial-width shed-roof porch supported by square wood posts set on a wood floor. There is an enclosed attic vent on the front facing gable end, and an interior brick chimney.

NRHP Assessment. Architectural resource AM2512 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2512 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2513**

Blockface#:

Quad:

PIN: 118793

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2463 Basin Creek Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2463 Basin Creek Road (Parcel 118793) in Burlington, newly-recorded architectural resource AM2513 was built in 1966 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2513 was limited to the public right-of-way along Bagbey Trail. Located on the south side of Basin Creek Road, AM2513 is a one-story Ranch house with a side gable roof and a brick veneer exterior. The north façade has an offset entrance with a brick and concrete stoop, a three-part picture window, and two-over-two horizontal sash windows with vinyl faux shutters. There is an interior central brick chimney. Just west of the house is a modern metal carport.

NRHP Assessment. Architectural resource AM2513 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2513 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2514**

Blockface#:

Quad:

PIN: 118793

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2370 Basin Creek Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2370 Basin Creek Road (Parcel 118793) in Burlington, newly-recorded architectural resource AM2514 was reportedly built in 1910 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2514 was limited to the public right-of-way along Bagbey Trail. Located on the south side of Basin Creek Road, AM2514 is a farmstead on a 29.6-acre parcel that contains a two-story I-house and six outbuildings. The house and outbuildings are surrounded by agricultural fields to the north and west and a wooded area to the south. The house has the typical features of the I-house form, including a two-story, single-pile plan with a side-gable roof clad in standing-seam metal and exterior end brick chimneys on either end. The exterior is clad in vinyl siding, and the foundation is not visible. There is a one-and-one-half story rear ell with a side porch on the south elevation. The house has a three-bay façade with a full-length one-story porch topped by a second story porch on the center bay. The first-story level of the porch has a wood floor and a shed roof clad in standing seam metal supported by battered wood columns set on brick and poured concrete piers. The second-story porch has a front-gable roof supported by wood posts. The central first-story entrance has a panel door with sidelights that is flanked by six-over-six wood sash windows. There is a door with a half-glass door leading out to the second story porch, which is flanked on either side by four-over-four wood sash windows. There are no windows on the west elevation of the main portion of the house, but the west elevation of the rear ell features a side-porch with a shed roof and decorative iron column that shelters a nine-light glazed side entrance door and six-over-six wood sash windows. There is an interior brick chimney in the rear ell, which was likely used as a kitchen. There are one-story, one-room additions on the south (rear) and east elevations of the rear ell. Outbuildings on the

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property include three wood frame storage sheds (one of which is partially collapsed), two tobacco barns, and an equipment shed. There is also a non-historic mobile home on the parcel.

NRHP Assessment. Architectural resource AM2514 is potentially eligible for listing in the NRHP under Criterion A for its association with the twentieth century history of tobacco farming in Alamance County. More research on the history of the property, its ownership, and operation as a farm is necessary to place it within this local historic context and define its level of significance. The property is also potentially eligible for listing in the NRHP under Criterion C as an intact example of an early-twentieth century I-house with outbuildings that characterize it as an agricultural property. The integrity of the house's materials has been compromised by the installation of vinyl siding on the exterior, but the house retains its integrity of location, design, setting, workmanship, feeling, and association.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2515**

Blockface#:

Quad:

PIN: 8877434760

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding**Street or 911 Address: **2110 Basin Creek Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2768 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877434760), newly-recorded architectural resource AM2515 has a reported construction date of 1937 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2515 was limited to the public right-of-way along Union Ridge Road.

AM2515 is a single story English Cottage style dwelling. The house features a side gabled asphalt shingle roof, brick exterior, a stucco chimney, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows and includes a brick stoop with a clipped gable roof supported by brick columns. A rear addition with vinyl siding is attached to the southwest elevation.

NRHP Assessment. Architectural resource AM2515 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2515 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2516**

Blockface#:

Quad:

PIN: 128380

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3654 Burch Bridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3654 Burch Bridge Road, Burlington, 27217, on parcel number 128380, newly recorded architectural resource AM2516 is a side-gabled house that is reported to have been constructed in 1890 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2519 was limited to the public right-of-way along Burch Bridge Road.

AM2516 is a two-story house that features a roof covered with asphalt shingles, an interior central brick chimney, exterior end brick chimney, and a combination brick veneer and vinyl siding-clad exterior. Fenestration includes 6/6 double-hung vinyl sash windows. A reconstructed full-height, full-width entry porch provides access to the main entrance and is composed of a shed roof supported by aluminum columns and a brick deck. Modern additions are attached to the north, south, and west (rear) elevations. Located south and west of the house are a collection of outbuildings that include: a modern brick carport, late twentieth-century shed, late twentieth-century barn, mid-to-late twentieth century tractor shed, early twenty-first century garage, mid-twentieth-century utility building, and a late nineteenth-century log storage crib.

NRHP Assessment. Architectural resource AM2516 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2516 is not

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eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2517**

Blockface#:

Quad:

PIN: 128382

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3718 Burch Bridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3718 Burch Bridge Road, Burlington, 27217, on parcel number 128382, newly recorded architectural resource AM2517 is a Ranch-style house that is reported to have been constructed in 1951(Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2519 was limited to the public right-of-way along Burch Bridge Road.

AM2517 is a one-story house that features a side-gabled roof covered with asphalt shingles, an interior brick chimney, and a brick veneer-clad exterior. Fenestration includes 1/1 double-hung vinyl sash windows and a three-part picture window containing a central fixed vinyl sash. A modern wood deck provides access to the recessed entrance. The deck is shielded by a shed roof supported by aluminum posts. A gabled addition is attached to the west (rear) elevation. Located south of the house are a mid-twentieth century brick pump house and a mid-twentieth-century wood-framed shed.

NRHP Assessment. Architectural resource AM2517 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2517 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2518**

Blockface#:

Quad:

PIN: 128384

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **3734 Burch Bridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3734 Burch Bridge Road, Burlington, 27218, on parcel number 128384, newly recorded architectural resource AM2518 is an I-house that is reported to have been constructed in 1928, but stylistic evidence indicates was actually constructed in the late nineteenth century (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2519 was limited to the public right-of-way along Burch Bridge Road.

AM2518 is a two-story house that features a side-gabled roof covered with asphalt shingles, an interior central brick chimney, a modern exterior brick chimney, and a vinyl siding-clad exterior. Fenestration includes 6/6 double-hung vinyl sash windows and a 4-lite operable wood sash window. A reconstructed full-width porch provides access to the main entrance. The porch is comprised of a shed roof supported by ornamental metal columns and a brick and concrete deck. A gabled addition with a shed extension is attached to the west (rear) elevation. Located north and west of the house are a collection of outbuildings that include: a mid-twentieth-century tractor barn, shed, two-bay garage, barn, and chicken house.

NRHP Assessment. Architectural resource AM2518 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2518 is not

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eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2519**

Blockface#:

Quad:

PIN: 128428

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3753 Burch Bridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3753 Burch Bridge Road, Burlington, 27218, on parcel number 128428, newly recorded architectural resource AM2519 is a Ranch-style house that is reported to have been constructed in 1958 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2519 was limited to the public right-of-way along Burch Bridge Road.

AM2519 is a one-story house that features a side-gabled roof covered with asphalt shingles, two exterior brick chimneys, and a brick veneer-clad exterior. Fenestration includes horizontal 2/2 double-hung aluminum sash windows and a two-light sliding vinyl sash window. A brick stoop topped by a balustrade composed of synthetic material provides access to the main entrance. The porch is comprised of a shed roof supported by ornamental metal columns and a brick and concrete deck. A gabled wing is attached to the south elevation and a two-bay metal-framed carport is attached to the east (rear) elevation.

NRHP Assessment. Architectural resource AM2519 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2519 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2520**

Blockface#:

Quad:

PIN: 8867286969

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1725 Isley School Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1725 Isley School Road, Burlington, NC, 27217 (parcel number 8867286969), newly-recorded architectural resource AM2520 is a group of outbuildings associated with a dwelling with a reported construction date of 1937 (Alamance County, NC WebGIS 2018). TRC did not access the main dwelling but did document the associated outbuildings. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2520 was limited to the public right-of-way along Isley School Road. NRHP Assessment. Architectural resource AM2520 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2520 is not eligible for the NRHP.

Outbuildings/Features**FeatureType****Material****CircaDate Condition****Contrib****Barn (general)**

The c. 1970 animal barn features a gabled roof, metal siding, and a concrete block foundation. A lean to is attached to the roof on the primary elevation.

Hay Barn

The c. 1940 hay barn features a gabled roof, metal siding, and a stone pier foundation. The side (northeast) elevation contains a shed roof section.

Barn (general)

The c. 1940 barn is heavily obscured by vegetation. The wood frame structure features a gabled roof, metal siding, and a shed roof section.

Tobacco Barn

The c. 1940 wood frame tobacco barn features a steeply pitched gabled roof and metal siding . The façade elevation contains a lean to attached above the barn entrance and a shed roof section is located on the barn's rear (northeast) elevation.

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2521**

Blockface#:

Quad:

PIN: 8867799211

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **855 Boone Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLDate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 855 Boone Road, Burlington, NC, 27215 (parcel number 8867799211), newly-recorded architectural resource AM2521 has a reported construction date of 1950 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2521 was limited to the public right-of-way along Boone Road.

AM2521 is a single story Minimal Traditional style dwelling. The structure features a side-gabled metal roof, aluminum siding, and a concrete block foundation. The façade and side (southeast) elevation hold one-over-one vinyl sash windows. A concrete stoop supported by wrought iron style columns provides access to the main entrance. The property also includes a shed outbuilding located on the east elevation.

NRHP Assessment. Architectural resource AM2521 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2521 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2522**

Blockface#:

Quad:

PIN: 8877073713

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **577 Boone Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLDate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 577 Boone Road, Burlington, NC, 27215 (parcel number 8877073713), newly-recorded architectural resource AM2522 has a reported construction date of 1965 (Alamance County, NC WebGIS 2018) (Figure X; Figure A). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2522 was limited to the public right-of-way along Boone Road.

AM2522 is a single story Ranch style dwelling. The house features a side-gabled roof, multicolored brick exterior, an interior brick chimney, and a brick foundation. The façade elevation contains one Chicago window as well as one-over-one sash windows with vinyl shutters. A concrete and brick stoop with a metal railing provides access to the main entrance, which is filled with an oval glazed door.

NRHP Assessment. Architectural resource AM2522 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2522 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2523**

Blockface#:

Quad:

PIN: 8877242406

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuildings**

Street or 911 Address:

Location Description: **Roberta Drive**Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located off Union Ridge Road in Burlington, NC, 27215 (parcel number 8877242406), newly-recorded architectural resource AM2523 is a group of agricultural outbuildings with a reported construction date of 1840 (Alamance County, NC WebGIS 2018). Due to stylistic evidence, it is the opinion of TRC that the outbuildings date to c. 1940.

AM2523 includes two tobacco barns and another outbuilding of an unclear type. None of the outbuildings appear to still be in use. The wood frame buildings feature gabled roofs covered with seam metal, metal exterior, and brick foundations. Tobacco barn A features a lean to on the primary and side(east and west) elevations. Tobacco barn B has a lean to attached to the façade.

NRHP Assessment. Architectural resource AM2523 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2523 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2524**

Blockface#:

Quad:

PIN: 8877444563

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2854 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2854 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877444563), newly-recorded architectural resource AM2524 has a reported construction date of 1930 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2524 was limited to the public right-of-way along Union Ridge Road.

AM2524 is a single story Minimal Traditional style dwelling. The house features a front-gabled roof with asphalt shingles, aluminum siding, and one-over-one vinyl sash windows with vinyl shutters. The dwelling has a brick foundation and two interior brick chimneys. Located on the façade elevation is a concrete porch supported by decorative posts. A concrete block outbuilding with a front gabled roof is situated southwest of the house.

NRHP Assessment. Architectural resource AM2524 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2524 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2525**

Blockface#:

Quad:

PIN: 8877444263

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2830 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2830 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877444263), newly-recorded architectural resource AM2525 does not have a date of construction listed in the Alamance County Real Estate/GIS database. Based on stylistic evidence, it is the opinion of TRC that AM2525 was built c. 1960. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2525 was limited to the public right-of-way along Union Ridge Road.

AM2525 is a single story Ranch style dwelling. The house features a side-gabled roof with asphalt shingles, brick exterior, a brick foundation, and an interior brick chimney. The façade elevation holds one-over-one vinyl sash windows. A brick and concrete stoop with a wrought iron style handrail leads to the main entrance. NRHP Assessment. Architectural resource AM2525 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2525 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2526**

Blockface#:

Quad:

PIN: 8877444451

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2842 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2842 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877444451), newly-recorded architectural resource AM2526 has a reported construction date of 1932 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2526 was limited to the public right-of-way along Union Ridge Road.

AM2526 is a two-story Craftsman Bungalow style dwelling. The house features an asphalt shingle roof, vinyl siding, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows. Located on the second story of the primary elevation is a gable dormer. The dwelling has a full width recessed porch supported by round columns on brick plinths.

NRHP Assessment. Architectural resource AM2526 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2526 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2527**

Blockface#:

Quad:

PIN: 8877434988

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2809 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2804 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877434988), newly-recorded architectural resource AM2527 has a reported construction date of 1942 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2527 was limited to the public right-of-way along Union Ridge Road.

AM2527 is a single story Ranch style dwelling. The house features a side-gabled roof with asphalt shingles, aluminum siding, two interior brick chimneys, and a brick foundation. The façade elevation holds Chicago windows as well as six-over-six vinyl sash windows. A concrete stoop supported by synthetic round columns leads to the main entry. Located on the side (south) elevation is a concrete porch, also supported by synthetic columns.

NRHP Assessment. Architectural resource AM2527 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2527 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2528**

Blockface#:

Quad:

PIN: 8877448211

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2831 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2831 Union Ridge Road, Burlington, NC, 27215 (parcel number 8877448211), newly-recorded architectural resource AM2528 has a reported construction date of 1929 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2528 was limited to the public right-of-way along Union Ridge Road.

AM2528 is a two-story Bungalow style dwelling. The house features a front-gabled roof with asphalt shingles, vinyl siding, an interior brick chimney, and a brick foundation. The façade elevation holds six-over-one windows. Located on the primary elevation is a full width concrete porch with an aluminum awning.

The porch is supported by tapered columns on brick plinths.

NRHP Assessment. Architectural resource AM2528 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2528 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2529**

Blockface#:

Quad:

PIN: 8877448103

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2823 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2823 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877448103), newly-recorded architectural resource AM2529 has a reported construction date of 1935 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2529 was limited to the public right-of-way along Union Ridge Road.

AM2529 is a single story Minimal Traditional style dwelling. The house features a cross-gabled roof with asphalt shingles, brick exterior, and a brick foundation. Located on the façade elevation are six-over-six vinyl sash windows and a recessed porch supported by vinyl posts. A brick and concrete stoop with concrete steps and a vinyl handrail leads to the main entry. The property also contains a two-bay detached garage.

NRHP Assessment. Architectural resource AM2529 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2529 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2530**

Blockface#:

Quad:

PIN: 8877531798

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2811 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2811 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877531798), newly-recorded architectural resource AM2530 has a reported construction date of 1930 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2530 was limited to the public right-of-way along Union Ridge Road.

AM2530 is a two-story Craftsman Bungalow style dwelling. The house features a side-gabled roof with asphalt shingles, two interior chimneys, and a brick foundation. Located on the façade elevation are four-over-one wood sash windows and a recessed porch supported by tapered columns. A shed roof dormer is located on the second story of the primary elevation.

NRHP Assessment. Architectural resource AM2530 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2530 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2531**

Blockface#:

Quad:

PIN: 8877437874

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **gg House**Street or 911 Address: **2779 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2779 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437874), newly-recorded architectural resource AM2531 has a reported construction date of 1970 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2531 was limited to the public right-of-way along Union Ridge Road.

AM2531 is a single story Minimal Traditional style dwelling. The house features a side-gabled roof with asphalt shingles, vinyl siding, and a brick foundation. Located on the façade elevation are six-over-six and eight-over-eight vinyl sash windows with vinyl shutters. A brick and concrete stoop supported by vinyl posts leads to the main entry.

NRHP Assessment. Architectural resource AM2531 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2531 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2532**

Blockface#:

Quad:

PIN: 141499

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House & Commercial Building**Street or 911 Address: **2776 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2776 Union Ridge Road, Elon, NC 27244 on parcel 141499, newly-recorded architectural resource has a reported construction date of 1936 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource AM2532 was limited to the public right-of-way along Union Ridge Road.

AM2532 is a one-story, Craftsman/bungalow style house. The wood-frame building features a clipped side-gabled roof covered with asphalt shingles, an exterior clad with a brick veneer, a brick foundation, and double hung 1/1 vinyl sash windows. Facing east, a center bay entry porch with a concrete deck provides access to the main entrance. The entry porch is shielded by a projecting, clipped gable roof that is supported by a pair of brick columns.

NRHP Assessment. Architectural resource AM2532 features a dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and alterations, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2532 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2533**

Blockface#:

Quad:

PIN: 8877437776

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2773 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2773 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437776), newly-recorded architectural resource AM2533 has a reported construction date of 1950 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2533 was limited to the public right-of-way along Union Ridge Road.

AM2533 is a single story English Cottage style dwelling. The house features a cross gabled roof with asphalt shingles, aluminum siding, and a brick foundation. The façade elevation holds replacement six-over-six windows and contains a decorative brick chimney. A concrete stoop with a gable porch roof and vinyl railing leads to the main entrance.

NRHP Assessment. Architectural resource AM2533 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2533 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2534**

Blockface#:

Quad:

PIN: 8877437678

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2765 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2765 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437678), newly-recorded architectural resource AM2534 has a reported construction date of 1952 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2534 was limited to the public right-of-way along Union Ridge Road.

AM2534 is a single story English Cottage style dwelling. The house features a side gabled roof, asbestos shingle siding, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows and includes a brick chimney with stepped shoulders. The primary elevation features an asymmetrical front gable with a door atop a brick and concrete stoop with a vinyl railing.

NRHP Assessment. Architectural resource AM2534 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2534 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2535**

Blockface#:

Quad:

PIN: 8877437661

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2761 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2761 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437661), newly-recorded architectural resource AM2535 has a reported construction date of 1940 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2535 was limited to the public right-of-way along Union Ridge Road.

AM2535 is a Bungalow style dwelling. The house features a front gabled metal roof, aluminum siding, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows and includes an off-center door. Also on the primary elevation is a full width porch supported by rebuilt porch columns on brick plinths. The property contains a rear detached garage with a front gabled roof and aluminum siding.

NRHP Assessment. Architectural resource AM2535 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2535 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2536**

Blockface#:

Quad:

PIN: 8877437584

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2755 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2755 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437584), newly-recorded architectural resource AM2536 has a reported construction date of 1936 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2536 was limited to the public right-of-way along Union Ridge Road.

AM2536 is a Bungalow style dwelling. The house features a front gabled roof with asphalt shingles, aluminum siding, two interior brick chimneys, and a brick foundation. The façade elevation holds four-over-one vertical sash windows and includes a full width wood porch supported by decorative brick columns.

Also located on the property is a rear detached garage with a front gabled roof and aluminum siding.

NRHP Assessment. Architectural resource AM2536 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2536 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2537**

Blockface#:

Quad:

PIN: 8877437444

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2747 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2747 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437444), newly-recorded architectural resource AM2537 has a reported construction date of 1937 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2537 was limited to the public right-of-way along Union Ridge Road.

AM2537 is a two-story English Cottage Revival style dwelling. The house features an asphalt shingle roof, vinyl siding, an interior brick chimney, and a brick foundation. The façade elevation holds six-over-six vinyl sash windows with vinyl shutters. A concrete stoop leads to the main entrance, which is filled with a glazed door.

NRHP Assessment. Architectural resource AM2537 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2537 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2538**

Blockface#:

Quad:

PIN: 8877437335

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2739 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2739 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877437335), newly-recorded architectural resource AM2538 has a reported construction date of 1939 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2538 was limited to the public right-of-way along Union Ridge Road.

AM2538 is a single story Minimal Traditional style dwelling. The house features a front gabled roof with asphalt shingles, vinyl siding, an interior brick chimney, and a brick foundation. The façade elevation holds six-over-six wood sash windows with vinyl shutters. Located on the primary elevation is a recessed porch supported by vinyl posts and a vinyl railing. The dwelling also features an attached two-car garage.

NRHP Assessment. Architectural resource AM2538 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2538 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2539**

Blockface#:

Quad:

PIN: 8877438268

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2730 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2730 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877438268), newly-recorded architectural resource AM2539 has a reported construction date of 1915(Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2539 was limited to the public right-of-way along Union Ridge Road.

AM2539 is a single story Queen Anne style dwelling. The house features a metal shingle roof, vinyl siding, two interior brick chimneys, and a brick foundation. The façade elevation holds replaced six-over-one windows and includes a brick and concrete porch supported by vinyl posts and decorative wrought-iron style columns.

NRHP Assessment. Architectural resource AM2539 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2539 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2540**

Blockface#:

Quad:

PIN: 8877745033

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2870 N. NC 62 Hwy**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2870 North NC 62 Highway, Burlington, NC, 27217 (parcel number 8877745033), newly-recorded architectural resource AM2540 has a reported construction date of 1938 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2540 was limited to the public right-of-way along North NC 62 Highway.

AM2540 is a two-story English Cottage style dwelling. The house features a clipped gable roof, brick exterior, two interior brick chimneys, and a brick foundation. The façade elevation holds six-over-one windows and includes a recessed brick porch supported by brick columns. Decorative brickwork is seen on both the façade and side (east) elevation. The property contains several agricultural outbuildings, including a wood frame shed with a replaced metal roof.

NRHP Assessment. Architectural resource AM2540 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2540 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2541**

Blockface#:

Quad:

PIN: 8887315174

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2327 Mrs. Blanchard Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2327 Mrs. Blanchard Road, Burlington, NC, 27217 (parcel number 8887315174), newly-recorded architectural resource AM2541 has a reported construction date of 1965 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2541 was limited to the public right-of-way along Mrs. Blanchard Road.

AM2541 is a single story Ranch style dwelling. The house features an asphalt shingle roof with a front facing gable, synthetic exterior, and a stone foundation. The façade elevation holds one-over-one vinyl sash windows and includes a concrete porch with a balustrade. The porch is supported by synthetic columns.

Located on the side (northwest) elevation is an exterior stone chimney.

NRHP Assessment. Architectural resource AM2541 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2541 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2542**

Blockface#:

Quad:

PIN: 8887400251

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2259 Mrs. Blanchard Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2259 Mrs. Blanchard Road, Burlington, NC, 27217 (parcel number 8887400251), newly-recorded architectural resource AM2542 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2542 was limited to the public right-of-way along Mrs. Blanchard Road.

AM2542 is a single story Minimal Traditional style dwelling. The house features a metal roof, synthetic exterior, and a brick foundation. The façade elevation holds six-over-six vinyl sash windows and includes a gabled front entry wing. A brick stoop supported by round synthetic columns leads to the main entry.

Attached to the side (southeast) elevation is a single story addition.

NRHP Assessment. Architectural resource AM2542 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2542 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2543**

Blockface#:

Quad:

PIN: 8887402523

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1566 Deep Creek Church Road Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1566 Deep Creek Church Road, Burlington, NC, 27217 (parcel number 8887402523), newly-recorded architectural resource AM2543 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2543 was limited to the public right-of-way along Deep Creek Church Road.

AM2543 is a single story Ranch style dwelling. The house features a side gabled roof with asphalt shingles, brick exterior, an interior brick chimney, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows with vinyl shutters. Located on the side (north) elevation are windows of a similar sash style. A brick and concrete stoop with a vinyl handrail and balustrade leads to the main entry.

NRHP Assessment. Architectural resource AM2543 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2543 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2544**

Blockface#:

Quad:

PIN: 8886494994

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1545 Deep Creek Church Road Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1545 Deep Creek Church Road, Burlington, NC, 27217 (parcel number 8886494994), newly-recorded architectural resource AM2544 has a reported construction date of 1950 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2544 was limited to the public right-of-way along Deep Creek Church Road.

AM2544 is a single story Ranch style dwelling. The house features a side gabled roof with asphalt shingles, brick exterior, an interior brick chimney, and a brick foundation. The exterior brick contains a soldier course belt on the first floor. Both the façade and the side (southwest) elevation hold one-over-one vinyl sash windows with vinyl shutters. A concrete stoop with steps leads to the main entry.

NRHP Assessment. Architectural resource AM2544 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2544 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2545**

Blockface#:

Quad:

PIN: 8886494490

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Arches Grove United Church of Christ and Cemetery**Street or 911 Address: **1479 Deep Creek Church Road Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1479 Deep Creek Church Road, Burlington, NC, 27217 (parcel number 8886494490), newly-recorded architectural resource AM2545 is the United Church of Christ and Cemetery. The church has a reported construction date of 1963 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2545 was limited to the public right-of-way along Deep Creek Church Road.

AM2545 features a single story sanctuary building with a large wing addition attached to the northwest elevation. The church has a front gabled roof with a steeple and a brick exterior. Located on the façade elevation is a front gable porch with square columns. A concrete block porch leads to the main entrance, which is filled with a broken pediment door. The primary and side (northwest and southeast) elevations of the main block hold stained glass windows. The church cemetery contains multiple headstone types representing common forms.

NRHP Assessment. Architectural resource AM2545 a typical example of a mid-twentieth century Colonial Revival style church. In accordance with NRHP Criteria Consideration A, religious buildings are normally not eligible for the NRHP unless they derive their primary significance from architectural or artistic distinction or are considered to be of historical importance. The property cannot be associated with important historical event(s) or person(s). Due to lack of the historic and architectural significance it is the opinion of TRC that architectural resource AM2545 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2546**

Blockface#:

Quad:

PIN: 8887600957

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2252 Roney Lineberry Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2252 Roney Lineberry Road, Burlington, NC, 27217 (parcel number 8887600957), newly-recorded architectural resource AM2546 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2546 was limited to the public right-of-way along Roney Lineberry Road.

AM2546 is a single story Minimal Traditional style dwelling. The house features a side gabled roof with asphalt shingles, aluminum siding, and a concrete foundation. The façade elevation holds a one-over-one vinyl sash window as well as a replacement three-part French window. Located on the side (north) elevation is an exterior brick chimney. Attached to the side (north) elevation is a side gable wing addition. A concrete stoop with a gable porch entry supported by turned posts provides access to the main entrance.

NRHP Assessment. Architectural resource AM2546 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2546 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2547**

Blockface#:

Quad:

PIN: 8887519066

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2262 Roney Lineberry Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2262 Roney Lineberry Road, Burlington, NC, 27217 (parcel number 8887519066), newly-recorded architectural resource AM2547 has a reported construction date of 1950 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2547 was limited to the public right-of-way along Roney Lineberry Road.

AM2547 is a single story Minimal Traditional style dwelling. The house features a side gabled roof with asphalt shingles, vinyl siding, and a concrete block foundation. Both the façade and side (northeast) elevation hold six-over-six vinyl sash windows with vinyl shutters. Located on the side (southwest) elevation is an exterior brick chimney. The dwelling also features a rear shed addition. A brick and concrete porch supported by synthetic posts provides access to the main entrance.

NRHP Assessment. Architectural resource AM2547 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2547 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2549**

Blockface#:

Quad:

PIN: 150257

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1648 Sandy Cross Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1874 Sandy Cross Road, Burlington, NC, 27217 (parcel number 150257), newly-recorded architectural resource AM2549 has a reported construction date of 1940 (Alamance County, NC WebGIS 2018). AM2549 is situated on a 13.9 acre parcel of land which includes associated outbuildings. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2549 was limited to the public right-of-way along Sandy Cross Road and North Fonville Road.

AM2549 is a two-story Neoclassical style house. The house features a side gabled roof with asphalt shingles, brick exterior, and a brick foundation. The façade elevation holds eight-over-eight windows on the second floor as well as full-length twelve-over-twelve first floor windows. Located on both the east and west elevations are matching wings, each holding an eight-over-eight window on the primary and side elevations. A full façade brick porch provides access to the main entrance. The porch is covered by the main roof, which extends over the façade, and is supported by four Tuscan columns. Further accenting the façade porch is an ornamental denticulated cornice. The off-centered main entrance is filled with a broken pediment door. A porch addition is attached to the rear (northeast) elevation.

NRHP Assessment. Architectural resource AM2549 is an example of a Neoclassical influenced house in which the exterior of the building has not been significantly altered since its construction in 1940. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as Tuscan columns and cornice trim

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woodwork. Moreover, the house has not been significantly altered, and as a result, retains its original scale and massing. Despite minor alterations, such as vinyl cladding on the entablature and the replacement of the original windows with vinyl sashes, it is the opinion of TRC that architectural resource AM2549 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of Neoclassical style architecture. The proposed NRHP boundary includes the 13.9 acres of the property as detailed in the accompanying tax map.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2550**

Blockface#:

Quad:

PIN: 8886738406

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1322 Stonewall Springs Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1322 Stonewall Springs Road, Burlington, NC, 27217 (parcel number 8886738406), newly-recorded architectural resource AM2550 has a reported construction date of 1945 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2550 was limited to the public right-of-way along Stonewall Springs Road.

AM2550 is a single story Minimal Traditional style dwelling. The house features a side gabled roof with asphalt shingles, vinyl siding, an interior brick chimney, and a concrete foundation. The façade elevation holds one-over-one vinyl sash windows with vinyl shutters. Located on the side (northeast) elevation is a single story side addition. A concrete deck supported by synthetic posts provides access to the main entrance. A wood frame shed outbuilding is located on the rear (west) elevation.

NRHP Assessment. Architectural resource AM2550 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2550 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2551**

Blockface#:

Quad:

PIN: 8896105950

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **450 Isley Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 450 Isley Road, Burlington, NC 27217 (parcel number 8896105950), newly recorded architectural resource AM2551 has a reported construction date of 1954 (Alamance County, North Carolina GIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way along Isley Road.

AM2551 is a one- story Ranch style house. The dwelling features a brick veneer and a side-gable roof covered in asphalt shingles. On the front façade is a partial-width gable porch supported by wood pilasters and a brick and concrete stoop. On the north elevation is a large two-story side addition. The primary façade of the main block is marked by three modern replacement one-over-one vinyl sash windows with vinyl shutters. This sash type is repeated on both stories of the side addition.

NRHP Assessment. Architectural resource AM2551 is a common example of a mid-twentieth-century Ranch style house that fails to exhibit distinctive characteristics of its architectural style or workmanship. Based upon the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2551 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2552**

Blockface#:

Quad:

PIN: 8896106747

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **462 Isley Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 462 Isley Road, Burlington, NC 27217 (parcel number 8896106747), newly recorded architectural resource AM2552 has a reported construction date of 1957 (Alamance County, North Carolina GIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way along Isley Road.

AM2552 is a one-story Minimal Traditional style house. The dwelling features a side-gabled roof covered with asphalt shingles, exterior aluminum cladding, and a continuous concrete block foundation. The dwelling also features a central brick chimney. The primary façade is marked with a gable porch that is supported by square wood columns on a concrete stoop. Within the porch bay, the facade entrance is slightly off center, filled with a solid core door. The house features two-over-two wood sash windows with vinyl shutters, a sash type repeated on the side elevations.

NRHP Assessment. Architectural resource AM2552 is a typical example of a mid- twentieth-century Minimal Traditional style house that fails to exhibit distinctive characteristics of its architectural style or workmanship. Based upon the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2552 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2553**

Blockface#:

Quad:

PIN: 8896200399

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **534 Isley Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 534 Isley Road, Burlington, NC 27217 (parcel number 8896200399), newly recorded architectural resource AM2553 has a reported construction date of 1965 (Alamance County, North Carolina GIS 2018). Due to the limitations placed on the architectural survey, TRC's accessibility to the property was limited to the public right-of-way along Isley Road.

AM 2553 is a one-story Ranch style house. The wood-frame building features a side-gabled roof covered with asphalt shingles, exterior brick veneer, and a brick foundation. The six-bay façade has a partial width shed porch that is supported by synthetic columns atop a brick stoop with concrete steps. The dwelling features an interior brick chimney and one-over-one vinyl sash windows with vinyl shutters, a sash pattern likely repeated on the remaining elevations. A modern wood-frame shed outbuilding with a seam metal roof is situated northwest of the dwelling within an enclosed portion of the property.

NRHP Assessment. Architectural resource AM2553 is a common example of a mid-twentieth-century Ranch style house that fails to exhibit distinctive characteristics of its architectural style or workmanship. Based upon the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2553 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2554**

Blockface#:

Quad:

PIN: 8895161844

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2238 Haw River Hopedale Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2238 Haw River Hopedale Road, Burlington, NC 27217 (parcel number 8895161844), newly-recorded architectural resource AM2554 has a reported construction date of 1935 (Alamance County, NC WebGIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way along Haw River Hopedale Road.

AM2554 is a single story Ranch style house. The dwelling features a side-gabled roof covered with asphalt shingles, exterior vertical board siding, and a brick foundation. The southeast elevation is marked by a one-story screened porch addition with a gable roof. To the west of the porch is a single, double-hung wood sash window, a sash type likely repeated on the remaining elevations. Situated directly east of the dwelling is a detached carport that is supported by a series of brick columns.

NRHP Assessment. Architectural resource AM2554 is a Ranch style house that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2554 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2555**

Blockface#:

Quad:

PIN: 8895250528

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2349 Haw River Hopedale Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2349 Haw River Hopedale Road, Burlington, NC 27217 (parcel number 8895250528), newly-recorded architectural resource AM2555 has a reported construction date of 1961(Alamance County, NC WebGIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way along Haw River Hopedale Road.

AM2555 is a one-story Ranch style house. The dwelling features a side-gabled roof covered with asphalt shingles, exterior vinyl siding, and a concrete block foundation covered with a brick veneer. Located on the façade elevation, the primary entry sits atop a brick and concrete stoop with stairs. The façade elevation is marked with one Chicago window as well as an additional window style indiscernible from the public right of way. On the northeast elevation are two two-over-two horizontal sash windows.

NRHP Assessment. Architectural resource AM2555 is a Ranch style house that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2555 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2556**

Blockface#:

Quad:

PIN: 8895252517

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2371 Haw River Hopedale Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2371 Haw River Hopedale Road, Burlington, NC 27217 (parcel number 8895252517), newly-recorded architectural resource AM2556 has a reported construction date of 1935 (Alamance County, NC WebGIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way along Haw River Hopedale Road.

AM2556 is a one-story Gable and Ell vernacular house. The dwelling features a front-gabled roof covered with asphalt shingles, synthetic exterior siding, and a concrete block foundation. The façade elevation is marked by an off-centered door that is flanked on either side by six-over-six, double-hung vinyl sash windows, a sash style repeated on the northwest elevation, and a partial-width, projecting gable porch with a louvered vent in the gable front. The porch is supported by synthetic columns atop a concrete slab deck with a concrete block foundation. Additional paired six-over-six vinyl sash windows are located on the primary façade to the west of the main entry.

NRHP Assessment. Architectural resource AM2556 is a Gable and Ell vernacular house that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource AM2556 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2557**

Blockface#:

Quad:

PIN: 8895134272

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **373 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 373 Boundary Street, Haw River, NC, 27258 (parcel number 8895134272), newly-recorded architectural resource AM2557 has a reported construction date of 1956 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2557 was limited to the public right-of-way along Boundary Street.

AM2557 is a single story Minimal Traditional style dwelling. The structure features a side-gabled roof with asphalt shingles, wood cladding, and a brick foundation. Two two-over-two horizontal sash windows with vinyl shutters are seen on the primary facade. A partial-width porch with a wooden balustrade and a concrete stoop provides access to the main entrance.

NRHP Assessment. Architectural resource AM2557 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2557 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2558**

Blockface#:

Quad:

PIN: 8895136279

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **381 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 381 Boundary Street, Haw River, NC, 27258 (parcel number 8895136279), newly-recorded architectural resource AM2558 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2558 was limited to the public right-of-way along Boundary Street.

AM2558 is a single story Ranch style house. The dwelling features a side-gabled roof with asphalt shingles, aluminum siding, and a brick foundation. An exterior brick chimney is located on the side (northeast) elevation. The façade elevation features two six-over-six vinyl sash windows as well as one Chicago window. A concrete stoop with synthetic columns and a brick foundation provides access to the main entrance. Located on the northeast elevation is an attached carport supported by synthetic columns.

NRHP Assessment. Architectural resource AM2558 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2558 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2559**

Blockface#:

Quad:

PIN: 8895137362

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **401 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 401 Boundary Street, Haw River, NC, 27258 (parcel number 8895137362), newly-recorded architectural resource AM2559 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2559 was limited to the public right-of-way along Boundary Street.

AM2559 is a single story Ranch style house. The dwelling features a side-gabled roof with asphalt shingles, vinyl siding, and a brick foundation. An exterior brick chimney is located on the side (southeast) elevation. The façade elevation features two one-over-one vinyl sash windows as well as one bay window with a false brick wall. A concrete stoop with a wood balustrade provides access to the main entrance.

NRHP Assessment. Architectural resource AM2559 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2559 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2560**

Blockface#:

Quad:

PIN: 8895138334

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **403 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 403 Boundary Street, Haw River, NC, 27258 (parcel number 8895138334), newly-recorded architectural resource AM2560 has a reported construction date of 1957 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2560 was limited to the public right-of-way along Boundary Street.

AM2560 is a single story Ranch style house. The dwelling features a side-gabled roof with asphalt shingles, aluminum cladding, and a brick foundation. A concrete stoop with a brick foundation and a pipe railing leads to the main entry. The house also features a central interior brick chimney. The façade elevation holds one one-over-one vinyl sash window as well as one Chicago window.

NRHP Assessment. Architectural resource AM2560 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2560 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2561**

Blockface#:

Quad:

PIN: 8895139324

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **407 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 407 Boundary Street, Haw River, NC, 27258 (parcel number 8895139324), newly-recorded architectural resource AM2561 has a reported construction date of 1952 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2561 was limited to the public right-of-way along Boundary Street.

AM2561 is a single story Ranch style house. The dwelling features a side-gabled roof with asphalt shingles, aluminum cladding, a central interior brick chimney, and a brick foundation. A concrete stoop leads to the main entry. The façade elevation features two two-over-two horizontal sash windows as well as one Chicago window. A partially enclosed carport is attached to the west elevation. The stoop and carport are supported by wrought iron-style columns.

NRHP Assessment. Architectural resource AM2561 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2561 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2562**

Blockface#:

Quad:

PIN: 8895230308

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **411 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 411 Boundary Street, Haw River, NC, 27258 (parcel number 8895230308), newly-recorded architectural resource AM2562 has a reported construction date of 1956 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2562 was limited to the public right-of-way along Boundary Street.

AM2562 is a single story Ranch style house. The dwelling features a side-gabled roof with asphalt shingles, vinyl siding, a central interior brick chimney, and a brick foundation. The main entry is off-center and sits atop a concrete stoop. The four-bay façade elevation features two one-over-one vinyl sash windows and one Chicago window.

NRHP Assessment. Architectural resource AM2562 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2562 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2563**

Blockface#:

Quad:

PIN: 8895230471

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **413 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 413 Boundary Street, Haw River, NC, 27258 (parcel number 8895230471), newly-recorded architectural resource AM2563 has a reported construction date of 1956 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2563 was limited to the public right-of-way along Boundary Street.

AM2563 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof with asphalt shingles, aluminum siding, and a brick foundation. A concrete stoop atop a brick foundation provides access to the main entrance. The three-bay façade elevation features one-over-one vinyl sash windows with vinyl shutters.

NRHP Assessment. Architectural resource AM2563 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2563 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2564**

Blockface#:

Quad:

PIN: 8895231444

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **417 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 417 Boundary Street, Haw River, NC, 27258 (parcel number 8895231444), newly-recorded architectural resource AM2564 has a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2564 was limited to the public right-of-way along Boundary Street.

AM2564 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof with asphalt shingles, vinyl siding, and a brick foundation. The three-bay façade elevation contains a one-over-one vinyl sash window and one Chicago window. A concrete stoop with a wooden handrail provides access to the main entrance, which is filled with a paneled vinyl door.

NRHP Assessment. Architectural resource AM2564 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2564 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2565**

Blockface#:

Quad:

PIN: 8895232417

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **419 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 419 Boundary Street, Haw River, NC, 27258 (parcel number 8895232417), newly-recorded architectural resource AM2565 has a reported construction date of 1957 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2565 was limited to the public right-of-way along Boundary Street.

AM2565 is a single story Ranch style house. The dwelling features a side-gabled tin roof, brick veneer, and a brick foundation. The façade elevation contains two one-over-one vinyl sash windows and one Chicago window. The house has a central interior brick chimney as well as an exterior brick chimney located on the side (southwest) elevation. Located on the side (northeast elevation) is a one-story addition with vinyl siding. A concrete stoop with a brick foundation and a metal handrail provides access to the main entrance.

NRHP Assessment. Architectural resource AM2565 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2565 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2566**

Blockface#:

Quad:

PIN: 8895232580

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **423 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 423 Boundary Street, Haw River, NC, 27258 (parcel number 8895232580), newly-recorded architectural resource AM2566 has a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2566 was limited to the public right-of-way along Boundary Street.

AM2566 is a single story Minimal Traditional style house. The dwelling features an asphalt shingle side-gabled roof, vinyl siding, and a brick foundation. The façade elevation holds replaced one-over-one vinyl sash windows with vinyl shutters. The house has a central interior brick chimney and features a rear shed addition. A modern shed outbuilding is located northwest of the dwelling.

NRHP Assessment. Architectural resource AM2566 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2566 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2567**

Blockface#:

Quad:

PIN: 8895233621

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **425 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 425 Boundary Street, Haw River, NC, 27258 (parcel number 8895233621), newly-recorded architectural resource AM2567 has a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2567 was limited to the public right-of-way along Boundary Street.

AM2567 is a single story Minimal Traditional style house. The dwelling features a side-gable asphalt shingle roof, aluminum siding, a brick foundation, and a central interior brick chimney. The façade elevation holds one two-over-two horizontal sash window and one Chicago window, both with vinyl shutters. A concrete stoop with a brick foundation and handrail provides access to the main entrance.

NRHP Assessment. Architectural resource AM2567 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2567 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2568**

Blockface#:

Quad:

PIN: 8895235671

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **142 Pelham Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 142 Pelham Street, Haw River, NC, 27258 (parcel number 8895235671), newly-recorded architectural resource AM2568 has a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2568 was limited to the public right-of-way along Pelham Street.

AM2568 is a single story Ranch style house. The wood frame dwelling features a side-gabled roof, brick exterior, and a brick foundation. The façade elevation contains both eight-over-eight and six-over-six vinyl sash windows and a projecting gable with eight-over-eight windows. The house has a central interior brick chimney. A concrete stoop with a brick foundation and metal handrail provides access to the main entrance. An enclosed brick garage is attached at the southwest elevation.

NRHP Assessment. Architectural resource AM2568 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2568 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2569**

Blockface#:

Quad:

PIN: 8895231870

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **424 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 424 Boundary Street, Haw River, NC, 27258 (parcel number 8895231870), newly-recorded architectural resource AM2569 has a reported construction date of 1960 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2569 was limited to the public right-of-way along Boundary Street.

AM2569 is a single story Ranch style house. The wood frame dwelling features a side-gabled roof, brick exterior, a brick foundation, and a central interior brick chimney. The façade elevation contains both two-over-two and one-over-one horizontal sash windows with vinyl shutters. A large, two-story garage addition with a projecting gable front is attached at the rear (northwest) elevation.

NRHP Assessment. Architectural resource AM2569 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2569 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2570**

Blockface#:

Quad:

PIN: 8895230751

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **416 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 416 Boundary Street, Haw River, NC, 27258 (parcel number 8895230751), newly-recorded architectural resource AM2570 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2570 was limited to the public right-of-way along Boundary Street.

AM2570 is a single story Ranch style house. The dwelling features a side-gabled roof, brick exterior, and a brick foundation. The façade elevation contains a replacement bay window as well as six-over-one vinyl sash windows. A concrete stoop with a brick foundation and vinyl railing leads to the main entrance. The dwelling features a central interior brick chimney as well as an exterior brick chimney located on the side (southwest) elevation.

NRHP Assessment. Architectural resource AM2570 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2570 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2571**

Blockface#:

Quad:

PIN: 8895139678

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **414 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 414 Boundary Street, Haw River, NC, 27258 (parcel number 8895139678), newly-recorded architectural resource AM2571 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2571 was limited to the public right-of-way along Boundary Street.

AM2571 is a single story Ranch style house. The dwelling features a side-gabled roof, vinyl siding, and a yellow brick foundation. The façade elevation contains a Chicago window as well as two-over-two horizontal sashes. A brick stoop with concrete steps leads to the main entrance, which contains a diamond door. The dwelling also features a central interior brick chimney. Attached to the side (west) elevation is a carport supported by synthetic columns.

NRHP Assessment. Architectural resource AM2571 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2571 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2572**

Blockface#:

Quad:

PIN: 8895138695

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **410 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 410 Boundary Street, Haw River, NC, 27258 (parcel number 8895138695), newly-recorded architectural resource AM2572 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2572 was limited to the public right-of-way along Boundary Street.

AM2572 is a single story Minimal Traditional style house. The dwelling features a side-gabled metal roof, vertical wood siding, and a brick foundation. The façade elevation contains one-over-one vinyl sash windows. A partial-width concrete porch supported by synthetic columns leads to the main entrance, which contains a three-light horizontal door. The dwelling also features a central interior brick chimney. Attached to the side (southeast) elevation is a carport supported by wood columns.

NRHP Assessment. Architectural resource AM2572 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2572 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2573**

Blockface#:

Quad:

PIN: 8895138623

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **408 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 408 Boundary Street, Haw River, NC, 27258 (parcel number 8895138623), newly-recorded architectural resource AM2573 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2573 was limited to the public right-of-way along Boundary Street.

AM2573 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof, vinyl siding, and a brick foundation. The façade elevation contains a one-over-one vinyl sash window and a 16-light picture window, both with vinyl shutters. A concrete stoop with an aluminum awning roof, synthetic columns, and a wood balustrade leads to the main entrance.

NRHP Assessment. Architectural resource AM2573 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2573 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2574**

Blockface#:

Quad:

PIN: 8895137640

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **406 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 406 Boundary Street, Haw River, NC, 27258 (parcel number 8895137640), newly-recorded architectural resource AM2574 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2574 was limited to the public right-of-way along Boundary Street.

AM2574 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof, vinyl siding, and a brick foundation. The façade elevation contains a bay window as well as a six-over six vinyl sash window. A concrete and brick stoop with an aluminum awning roof, synthetic columns, and a synthetic balustrade leads to the main entrance. The side (southeast) elevation holds six-over six windows and features a gable vent.

NRHP Assessment. Architectural resource AM2574 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2574 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2575**

Blockface#:

Quad:

PIN: 8895136578

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **404 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Located at 404 Boundary Street, Haw River, NC, 27258 (parcel number 8895136578), newly-recorded architectural resource AM2575 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2575 was limited to the public right-of-way along Boundary Street.

AM2575 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof, aluminum siding, a central interior brick chimney, and a brick foundation. The façade elevation has a projecting bay and one-over-one vinyl sash windows with vinyl shutters. A concrete and brick stoop with wrought iron columns and balustrade leads to the main entrance. The side (southwest) elevation holds one-over-one windows and features a gable vent.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2576**

Blockface#:

Quad:

PIN: 8895135584

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **382 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 382 Boundary Street, Haw River, NC, 27258 (parcel number 8895135584), newly-recorded architectural resource AM2576 has a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2576 was limited to the public right-of-way along Boundary Street.

AM2576 is a single story Ranch style house. The dwelling features a side-gabled roof, vinyl siding, a brick water table, and a brick foundation. The façade holds a one-over-one sliding window as well as a one-over-one Chicago window. A recessed porch with a concrete stoop supported by wrought iron style columns leads to the main entrance. The side (southeast) elevation holds one-over-one vinyl sash windows.

NRHP Assessment. Architectural resource AM2576 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2576 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2577**

Blockface#:

Quad:

PIN: 8895135512

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **380 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 380 Boundary Street, Haw River, NC, 27258 (parcel number 8895135512), newly-recorded architectural resource AM2577 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2577 was limited to the public right-of-way along Boundary Street.

AM2577 is a single story Ranch style house. The wood frame dwelling features a side-gabled roof covered with asphalt shingles, brick veneer, a brick foundation, and a central interior brick chimney. The façade holds one-over-one vinyl sash windows. A concrete stoop with synthetic handrails leads to the main entrance, which is filled with a three-light horizontal door.

NRHP Assessment. Architectural resource AM2577 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2577 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2578**

Blockface#:

Quad:

PIN: 8895134439

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **378 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 378 Boundary Street, Haw River, NC, 27258 (parcel number 8895134439), newly-recorded architectural resource AM2578 has a reported construction date of 1956 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2578 was limited to the public right-of-way along Boundary Street.

AM2578 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof, aluminum siding, a brick water table, and a brick foundation. The façade elevation holds one two-over-two horizontal wood sash window as well as one Chicago window. A concrete stoop with an iron handrail leads to the main entrance, which is filled with a replacement vinyl door. Attached to the southeast elevation is a carport supported by synthetic columns.

NRHP Assessment. Architectural resource AM2578 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2578 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2579**

Blockface#:

Quad:

PIN: 8895132515

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **374 Boundary Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 374 Boundary Street, Haw River, NC, 27258 (parcel number 8895132515), newly-recorded architectural resource AM2579 has a reported construction date of 1950 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2579 was limited to the public right-of-way along Boundary Street.

AM2579 is a single story Minimal Traditional style house. The dwelling features a side-gabled metal roof, aluminum siding, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows. An exterior brick chimney is located at the side (east) elevation. A concrete porch with a wrought iron style balustrade leads to the main entrance. The porch is supported by wrought iron style columns. Northeast of the dwelling are two outbuildings, both with metal siding and side gabled roofs covered with seamed metal.

NRHP Assessment. Architectural resource AM2579 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2579 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2580**

Blockface#:

Quad:

PIN: 8895233593

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **138 Pelham Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 138 Pelham Street, Haw River, NC, 27258 (parcel number 8895233593), newly-recorded architectural resource AM2580 has a reported construction date of 1955 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2580 was limited to the public right-of-way along Pelham Street.

AM2580 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof, brick veneer, and a brick foundation. The façade elevation holds a two-over-two horizontal sash window as well as one Chicago window. A concrete and brick stoop with an aluminum awning, iron handrail, and balustrade leads to the main entry. Attached to the southeast elevation is an enclosed carport.

NRHP Assessment. Architectural resource AM2580 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2580 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2581**

Blockface#:

Quad:

PIN: 8895235740

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **143 Pelham Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 143 Pelham Street, Haw River, NC, 27258 (parcel number 8895235740), newly-recorded architectural resource AM2581 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2581 was limited to the public right-of-way along Pelham Street.

AM2581 is a single story Minimal Traditional style house. The dwelling features a side-gabled roof, brick exterior, and a brick foundation. The façade elevation holds both a Chicago window and one-over-one vinyl sash windows. The side (northwest) elevation also contains one-over-one vinyl sash windows. A concrete and brick stoop with a vinyl handrail leads to the main entry, which is filled with a vinyl door.

NRHP Assessment. Architectural resource AM2581 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2581 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2582**

Blockface#:

Quad:

PIN: 8895235671

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **139 Pelham Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 139 Pelham Street, Haw River, NC, 27258 (parcel number 8895235671), newly-recorded architectural resource AM2582 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2582 was limited to the public right-of-way along Pelham Street.

AM2582 is a single story Ranch style house. The dwelling features a side-gabled roof, brick exterior, and a brick foundation. The façade elevation holds six-over-six vinyl sash windows and the main entry is filled with a replaced door. Also located on the primary elevation is a gable porch addition supported by vinyl columns. The side (northwest) elevation contains an exterior brick chimney.

NRHP Assessment. Architectural resource AM2582 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2582 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2583**

Blockface#:

Quad:

PIN: 8895236502

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **135 Pelham Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 135 Pelham Street, Haw River, NC, 27258 (parcel number 8895236502), newly-recorded architectural resource AM2583 has a reported construction date of 1958 (Alamance County, NC WebGIS 2018) . Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2583 was limited to the public right-of-way along Pelham Street.

AM2583 is a single story Ranch style house. The dwelling is embanked and features a side-gabled roof, brick exterior, and a brick foundation. The façade elevation holds horizontal two-over-two windows. Located on the side (southeast) elevation are one-over-one-windows. The dwelling also contains two interior brick chimneys.

NRHP Assessment. Architectural resource AM2583 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2583 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2584**

Blockface#:

Quad:

PIN: 8895235026

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **120 Pelham Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 120 Pelham Street, Haw River, NC, 27258 (parcel number 8895235026), newly-recorded architectural resource AM2584 has a reported construction date of 1920 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2584 was limited to the public right-of-way along Pelham Street.

AM2584 is a single story Bungalow style house. The dwelling features a cross-gabled roof, vinyl siding, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows and contains a wraparound porch with a wood deck and concrete steps. Supporting the porch are vinyl-clad columns with a brick base. The dwelling contains two interior brick chimneys.

NRHP Assessment. Architectural resource AM2584 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2584 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2585**

Blockface#:

Quad:

PIN: 8895320939

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **First Baptist Church Haw River**Street or 911 Address: **508 E. Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 508 East Main Street, Haw River, NC, 27258 (parcel number 8895320939), newly-recorded architectural resource AM2585 is First Baptist Church Haw River. The church has a reported construction date of 1960 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2585 was limited to the public right-of-way along East Main Street and Pelham Street.

AM2585 is a two-story Colonial Revival style church. The brick building features a gabled roof with asphalt shingles and a brick foundation. The church building includes a main sanctuary in the front and a c. 1970 wing added to the side (northeast) elevation. The façade elevation includes a pediment with an oculus and a porch supported by round columns. The building contains a mixture of original and replaced six-over-six windows as well as stained glass windows on the east and west elevations of the main sanctuary block. The property also includes a modern concrete block garage.

NRHP Assessment. In accordance with NRHP Criteria Consideration A, religious buildings are normally not eligible for the NRHP unless they derive their primary significance from architectural or artistic distinction or are considered to be of historical importance. The property cannot be associated with important historical event(s) or person(s). Due to lack of the historic and architectural significance it is the opinion of TRC that architectural resource AM 2585 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2586**

Blockface#:

Quad:

PIN: 8895226767

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Remnants and Textiles Decorative Fabrics**Street or 911 Address: **410 E. Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 410 East Main Street, Haw River, NC, 27258 (parcel number 8895226767), newly-recorded architectural resource AM2586 has a reported construction date of 1956 (Alamance County, NC WebGIS 2018). The building currently houses Remnants and Textiles Decorative Fabrics. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2586 was limited to the public right-of-way along East Main Street.

AM2586 is a single story commercial block. The cinder block building features a flat roof with exposed rafter ends, aluminum trim, rounded corners, and a concrete block foundation. The façade elevation holds 12-light single and paired metal sash windows with vinyl shutters. A paved parking lot is located in front of the building on the primary elevation.

NRHP Assessment. Architectural resource AM2586 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2586 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2587**

Blockface#:

Quad:

PIN: 8895224797

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **404 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 404 East Main Street, Haw River, NC, 27258 (parcel number 8895224797), newly-recorded architectural resource AM2587 has a reported construction date of 1961 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2587 was limited to the public right-of-way along East Main Street.

AM2587 is a single story Ranch style house. The dwelling features a side gabled roof with asphalt shingles, brick exterior, and a brick foundation. The façade elevation holds a Chicago window as well as one-over-one vinyl sash windows. The primary elevation contains a partial width porch supported by decorative columns and a central interior brick chimney. Attached to the southeast elevation is a carport supported by synthetic columns.

NRHP Assessment. Architectural resource AM2587 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2587 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Tuesday, November 20, 2018

Historic Property Survey Summary

County: **Alamance**SSN: **AM2588**

Blockface#:

Quad:

PIN: 8895223471 and 88952233

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **WWII Home Front Museum and Edward's Automotive Products**Street or 911 Address: **309 E. Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRdate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 309 East Main Street, Haw River, NC, 27258 (parcel numbers 8895223471 and 8895223394), newly-recorded architectural resource AM2588 includes two buildings, Edward's Automotive Products and the Childrey House World War Two Home Front Museum. The buildings have reported construction dates of 1947 and 1950, respectively. (Alamance County, NC WebGIS 2018). Based on stylistic evidence, it is the opinion of TRC that the Childrey House World War Two Home Front Museum building dates to c. 1910. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2588 was limited to the public right-of-way along East Main Street, Gravel Street, and Stone Street.

The 1947 building currently houses Edward's Automotive Products. The single story brick commercial building features terra cotta coping and eight-light metal awning sash windows on the façade elevation. This sash style is repeated on the remaining elevations. The primary entry has a metal door and includes a concrete loading dock.

The c. 1910 building is currently used as the Childrey House World War Two Home Front Museum. The two-story brick house features mixed common and American bond masonry. The house has a front gable and ell roof with asphalt shingles, brick exterior, and a brick foundation. The front gable is enlarged to two bays and the façade elevation holds two-over-two wood sash windows. The primary elevation contains a partial width porch supported by synthetic columns and a central interior brick chimney.

NRHP Assessment. Architectural resource AM2588 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2588 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2589**

Blockface#:

Quad:

PIN: 8895223318

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **307 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 307 Main Street, Haw River, NC, 27258 (parcel number 8895223318), newly-recorded architectural resource AM2589 has a reported construction date of 1917 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2589 was limited to the public right-of-way along East Main Street.

AM2589 is a two-story Bungalow style house. The dwelling features an asphalt shingle roof, vinyl siding, and a brick foundation. The façade and side (west) elevation hold one-over-one vinyl sash windows and the house features an interior brick chimney. On the primary elevation is a concrete slab wrap porch supported by synthetic square columns on brick piers.

NRHP Assessment. Architectural resource AM2589 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2589 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2590**

Blockface#:

Quad:

PIN: 8895221459

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **R. Flynt Building**Street or 911 Address: **304 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 304 Main Street, Haw River, NC, 27258 (parcel number 8895221459), newly-recorded architectural resource AM2590 has a reported construction date of 1920 (Alamance County, NC WebGIS 2018). The building is locally known as the R. Flynt Building. Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2590 was limited to the public right-of-way along East Main Street.

AM2590 is a single story brick commercial building with a rectangular layout. The building features a flat roof, terra cotta coping, and a brick foundation. The façade elevation contains a replaced storefront and a brick sidewalk. Located on the primary elevation is a modern Pepsi sign that reads “R. Flynt”.

NRHP Assessment. Architectural resource AM2590 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2590 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2591**

Blockface#:

Quad:

PIN: 8893254921

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1107 Cherry Lane**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1107 Cherry Lane, Graham, NC, 27253 (parcel number 8893254921), newly-recorded architectural resource AM2591 has a reported construction date of 1952 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2591 was limited to the public right-of-way along Cherry Lane.

AM2591 is a single story Ranch style house. The dwelling features an asphalt shingle roof with a front gable, brick exterior with Flemish bond, and a brick foundation. Located in the gable front is a louvered vent. The façade elevation contains a bay window and two-over-two horizontal sash windows. The dwelling also features an interior brick chimney.

NRHP Assessment. Architectural resource AM2591 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2591 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2592**

Blockface#:

Quad:

PIN: 8895220487

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **302 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 302 Main Street, Haw River, NC, 27258 (parcel number 8895220487), newly-recorded architectural resource AM2592 has a reported construction date of 1903 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2592 was limited to the public right-of-way along East Main Street.

AM2592 is a brick commercial building with a rectangular layout. Though the building was constructed in 1903, it is likely that the entire façade was remodeled at some point in the mid-twentieth century. The building features a flat roof, terra cotta coping, and a brick foundation. The primary elevation contains replaced wood sash store windows and the main entry is filled with a replaced door. Located on the facade elevation is a pent roof attached above the first floor windows.

NRHP Assessment. Architectural resource AM2592 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2592 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2593**

Blockface#:

Quad:

PIN: 153240

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **247 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 247 Main Street, Haw River, NC 27258, on parcel number 153240, newly recorded architectural resource AM2593 is a Craftsman Bungalow-style house that is reported to have been constructed in 1924 (Alamance County, NC WebGIS 2018).

Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2593 was limited to the public right-of-way along Main Street.

AM2593 is a one-and-one-half-story house that features a side-gabled roof covered with asphalt shingles, an exterior end brick chimney, and an aluminum siding-clad exterior. Fenestration includes 4/1 doublehung wood sash windows. A full-width porch provides access to the main entrance and is integral with the main roof, which is partially supported by tapered wood columns set atop brick plinth blocks. The porch features a modern concrete block deck.

NRHP Assessment. Architectural resource AM2593 does not exhibit a distinctive architectural style or workmanship, and the property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2593 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2594**

Blockface#:

Quad:

PIN: 153239

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **243 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

architectural resource AM2594 is a hipped-roof house that is reported to have been constructed in 1929 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2594 was limited to the public right-of-way along Main Street. AM2594 is a one- story house that features a roof covered with asphalt shingles, an interior central concrete chimney, a vinyl siding-clad exterior, and a brick pier foundation with concrete block infill. Fenestration includes 6/6 double-hung vinyl sash windows. A reconstructed partial-width porch provides access to the main entrance and features a hipped roof that is supported by ornamental metal columns and a concrete slab deck.

NRHP Assessment. Architectural resource AM2594 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2594 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2595**

Blockface#:

Quad:

PIN: 153175

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Wiltex warehouse**Street or 911 Address: **250 E. Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 250 East Main Street, Haw River, NC 27258, on parcel number 153175, newly recorded architectural resource AM2595 is a warehouse that is reported to have been constructed in 1968 (Alamance County, NC WebGIS 2018). Due to lack of

landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2595 was limited to the public right-of-way along Main Street.

Resource AM2595 is a one-story building that features a side-gabled roof covered with metal sheeting, an exterior clad with metal sheeting, and a continuous concrete foundation. Fenestration includes an overhead bay door on the south elevation and a pedestrian door on the east elevation.

NRHP Assessment. Architectural resource AM2595 does not exhibit a distinctive architectural style or workmanship, and the property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2595 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2596**

Blockface#:

Quad:

PIN: 153158

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Haw River Museum**Street or 911 Address: **201 E. Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 201 East Main Street, Haw River, NC 27258, on parcel number 153158, newly recorded architectural resource AM2596 is the Haw River Museum, a former commercial building that is reported to have been constructed in 1901 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2596 was limited to the public right-of-way along Main Street.

AM2596 is a one-story building composed of brick laid in a common bond, and features a flat metal roof and a continuous brick foundation. Fenestration includes double-hung 6/6 wood sashes and fixed 16-light vinyl sashes. Two original window openings have been infilled with brick. A brick and concrete staircase provide access to the building on the north elevation and a non-historic door has been installed on the west elevation.

NRHP Assessment. Architectural resource AM2596 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2596 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2597**

Blockface#:

Quad:

PIN: 153159

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **205 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 205 East Main Street, Haw River, 27258, on parcel number 153159, newly recorded architectural resource AM2597 is a commercial building that is reported to have been constructed in 1901 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2597 was limited to the public right-of-way along East Main Street.

The exterior of the building's facade is sheathed with stucco and is marked with an off-center entrance that is marked by a metal-glass door. The main entrance is accessible via a modern concrete stoop containing a ramp on the north elevation and a set of steps on the south elevation. A fabric awning indicates that the building houses the "Haw River Flooring Company". The main entrance is flanked on either side by segmental arched window openings containing a two-light, fixed sash window set in a metal sash. Positioned south of the main entrance is a segmental arched door opening that has been filled with a single-pane window. Flanking this opening is an original segmental arched window with a two-light, fixed metal sash. The building is accented with a heavily articulated cornice marked with dentil molding.

NRHP Assessment. Architectural resource AM2597 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2597 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2598**

Blockface#:

Quad:

PIN: n/a

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Retaining Wall**Street or 911 Address: **Gravel Street**Location Description: **Main Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Located along Main Street near the intersection with Gravel Street, Haw River, NC 27258, newly recorded architectural resource AM2598 is a single-box culvert that appears to have been constructed ca. 1940 (Alamance County, NC WebGIS 2018). AM2598 is

faced with brick and topped by a two-lane asphalt roadway and a modern steel railing.

NRHP Assessment. Architectural resource AM2598 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2598 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2599**

Blockface#:

Quad:

PIN: 153254

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Civic Center**Street or 911 Address: **110 Stone Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 110 Stone Street, Haw River, 27258, on parcel number 153254, newly-recorded architectural resource AM2599 is the Haw River Civic Building with a reported construction date of 1974 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2599 was limited to the public right-of-way along Stone Street.

AM2599 is a single-story civic building that features a hipped roof covered with asphalt shingles, a wood frame with a brick veneer-cladded exterior, and double hung 1/1 vinyl sash windows. Facing west, the façade is marked by a recessed central bay that contains the main entrance. The portico contains a concrete deck that leads to a pair of metal-glass doors. Flanking the center bay to the north are four windows. Three windows are positioned south of the central bay.

NRHP Assessment. Architectural resource AM2599 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2599 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2600**

Blockface#:

Quad:

PIN: 153255

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **407 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 407 East Main Street, Haw River, 27258, on parcel number 153255, newly-recorded architectural resource AM2600 is Queen Anne-influenced house with bungalow detailing that is reported to have been constructed in 1920 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2600 was limited to the public right-of-way along East Main Street.

AM2600 is a two-and-one-half-story house that features a steeply-pitched roof covered with asphalt shingles, two interior brick chimneys, a wood frame with an aluminum siding-cladded exterior, a brick foundation, and double hung 4/1 wood sash windows. Facing north, the façade is marked by a central entrance that contains flanking sidelights. A full-width porch containing a concrete deck atop a brick foundation provides access to the main entrance. The porch is shielded by a hipped roof that is supported by a series tapered wood posts atop brick plinth blocks. Highlighting the half-story is a centrally placed wall dormer that contains three-part window with a central arch wood sash.

NRHP Assessment. Architectural resource AM2600 is a good example of an early twentieth century residential building that exhibits transitional architectural features of the Queen Anne and Craftsman/bungalow styles. Based on TRC's limited access to the building, the exterior of the building has not been significantly altered since the building was constructed in 1920. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as the window sashes, porch detailing, and interior chimneys.

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Despite the application of aluminum siding, it is the opinion of TRC that architectural resource AM0160 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of a transitional Queen Anne-Craftsman/bungalow house. The proposed NRHP boundary includes the 1.69 acres of the property as detailed in the accompanying tax map.

Overall, the integrity of the property exhibits a distinctive architectural style and workmanship. For this reason, it is the opinion of TRC that architectural resource AM2600 is potentially eligible for the NRHP under Criterion C for its architectural significance.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2601**

Blockface#:

Quad:

PIN: 153260

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **411 Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 411 East Main Street, Haw River, 27258, on parcel number 153260, newly-recorded architectural resource AM2601 is Folk Victorian style house that is reported to have been constructed in 1912 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2601 was limited to the public right-of-way along East Main Street.

AM2601 is a single-story house that features a side-gabled roof covered with standing seam metal, two brick chimneys parged with concrete, a brick frame with a common bond exterior, a brick foundation, and double hung 2/2 wood sash windows. Facing north, the façade reveals a centrally placed door that is flanked to the east by a single window and to the west by a canted bay that contains three windows. A wraparound porch containing a concrete deck atop a brick foundation provides access to the main entrance. The porch is shielded by a hipped roof that is supported by a series decorative metal posts. Situated above the porch entry is a gable wall dormer that is sheathed with original staggered wood shingles and pierced by a diamond-shape, decorative wood attic vent.

NRHP Assessment. Architectural resource AM2601 is a good example of an early twentieth century residential building that exhibits intact Folk Victorina detailing. Based on TRC's limited access to the building, the exterior of the building has not been significantly altered since the building was constructed in 1912. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as the window sashes, the

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staggered shingles in the wall dormer, and interior chimneys. Despite the replacement of the original porch columns, it is the opinion of TRC that architectural resource AM0160 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of an early twentieth century residence with Folk Victorian detailing. The proposed NRHP boundary the house and associated garage as detailed in the accompanying tax map

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
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Garage

Located south of the house is a ca. 1920 garage. The wood-frame structure features a gable-front roof covered with standing seam metal and an exterior clad with weatherboard siding. Two vehicle bays are marked with sliding wood doors. Situated within the front-facing gable is a rectangular-shaped, five-light wood sash window

Actions

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2602**

Blockface#:

Quad:

PIN: 153263

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **503 E. Main Street**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 503 East Main Street, Haw River, 27258, on parcel number 153263, newly-recorded architectural resource AM2602 is a Craftsman/bungalow style house with a reported construction date of 1940 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2602 was limited to the public right-of-way along East Main Street.

AM2602 is a one-and-one-half-story building that features a side-gabled roof covered with asphalt shingles, an interior brick chimney, a wood frame with a vinyl siding-cladded exterior, a brick foundation, and double hung 1/1 vinyl sash windows. Facing north, the façade is marked by an off-centered door that is flanked to the east by a single window. A full-width porch that is integral with the main roof and contains a concrete deck provides access to the main entrance. The porch is characterized by four square-shaped wood columns that contain fluting detailing. Each column rests atop a brick plinth block that is connected to a brick balustrade. Situated in the half story is a gable dormer that contains a pair of windows.

NRHP Assessment. Architectural resource AM2602 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2602 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2603**

Blockface#:

Quad:

PIN: n/a

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Railroad fragment**

Street or 911 Address:

Location Description: **Main Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Newly-recorded architectural resource AM2603 consists of an approximately 1.18-mile segment of railroad track owned by the North Carolina Railroad (NCRR) and leased by Norfolk-Southern Railroad Company).

The railroad track segment is part of what was previously the Southern Railway Company, established in 1894. The Southern was formed following a series of mergers involving shorter-lived railroad companies, beginning in the 1830s. The line previously associated with the project area that became part of the Southern Railway was chartered in 1849 as the NCRR (NCRR n.d.). Completed between Charlotte and Goldsboro in 1856, the track system was utilized for both passenger and freight traffic. Following the Civil War, the NCRR fell into disrepair as a result of neglect and damage caused by military activity. By 1871, the NCRR signed a 30-year lease with the Richmond and Danville Railroad (R&D) for operations and equipment. The R&D was eventually acquired by financier J. P. Morgan in 1896, which prompted NCRR to enter into a 99-lease with Morgan's Southern Railway System (now Norfolk Southern Railway Company).

In the late twentieth century, NCRR merged with the Atlantic & North Carolina Railroad (A&NCRR), which added an additional 317 miles of track running east-west from Charlotte to Morehead City. Though the NCRR merged with the A&NCRR, the railroad retained the name "North Carolina Railroad". The NCRR currently shares its rail network with the Norfolk Southern Railway Company to allow for the transportation of freight and assist in the maintenance of the tracks (NCRR n.d.; SRHA n.d.).

The railroad segment within the study area features a raised embankment covered with ballast that supports a modern track composed of wood cross ties and steel rails. The segment located within the architectural study area of H-650 Pipeline Corridor traverses an industrial area within the town of Haw River.

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NRHP Evaluation. Architectural resource AM2603 is a segment of a early nineteenth-century railroad bed that has been continuously altered through routine maintenance for more than a century. As an actively managed rail line, the railroad bed has received regular repairs that have resulted in the replacement of the original tracks, cross-ties and ballast. As such, no materials associated with the original construction of the railroad remain. For these reasons, it is the opinion of TRC that architectural resource AM2603 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2604**

Blockface#:

Quad:

PIN: 153228

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Haw River Water Treatment Plant**Street or 911 Address: **225 Stone Quarry Road**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 255 Stone Street, Haw River, 27258, on parcel number 153228, newly-recorded architectural resource AM2604 is a waste treatment plant that was constructed in 1961 according to a plaque attached to the facade (Alamance County, NC WebGIS 2018).

AM2604 is anchored by a single-story control building building that features a flat roof, a masonry frame with a brick veneer-cladded exterior, a raised concrete slab foundation, and double hung 1/1 vinyl sash windows. Facing northeast, the façade is marked by two symmetrically placed door openings that contain a metal leaf with a single-pane window. Each door opening is topped by a jack arch and a flat entry hood composed of concrete.

NRHP Assessment. Architectural resource AM2604 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2604 is not eligible for the NRHP.

Outbuildings/Features**FeatureType****Material****CircaDate Condition****Contrib****Sediment Tanks**

Four, rectangular-shaped concrete sediment tanks

Treatment Tank

A circular concrete sludge treatment tank

Garage

A ca. 1961 maintenance garage. The wood-frame structure features a low-pitch side-gabled roof covered with standing seam metal, an exterior clad with metal, ribbed, siding, and a concrete slab foundation. The garage includes an open vehicle bay and a metal pedestrian door on the southeast elevation

Actions

Historic Property Survey Summary

County: **Alamance**SSN: **AM2605**

Blockface#:

Quad:

PIN: 152901

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **9xx Jimmy Kerr Road**

Location Description:

Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at east side of Jimmie Kerr Road, Graham, 27253, on parcel number 152901, newly-recorded architectural resource AM2605 is a Minimal Traditional style house with a reported construction date of 1950 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2605 was limited to the public right-of-way along Jimmie Kerr Road.

AM2605 is a single-story building that features a side-gabled roof covered with asphalt shingles, an interior brick chimney, a wood frame with an aluminum siding-cladded exterior, a brick foundation, and double hung 6/6 wood sash windows. Facing west, the façade is marked by a central door that is flanked on either side by a single window. Located above the door is a centrally placed gable wall dormer pierced with an aluminum vent. A partial-width porch with a concrete deck provides access to the main entrance. Attached to the north elevation is a building hypen that connects the main block to a gable-front wing.

NRHP Assessment. Architectural resource AM2605 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2605 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2607**

Blockface#:

Quad:

PIN: 152172

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**

Street or 911 Address:

Location Description: **Jimmy Kerr Rd.**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1813 Jimmie Kerr Road, Graham, 27253, on parcel number 152172, newly-recorded architectural resource AM2607 is a Ranch style house with a reported construction date of 1953 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2607 was limited to the public right-of-way along Jimmie Kerr Road.

AM2607 is a single-story building that features a side-gabled roof covered with asphalt shingles, an interior brick chimney, a wood frame with brick veneer-cladded exterior, and double hung 6/6 vinyl sash windows.

An off-center recessed bay contains the main entrance, which is adorned with flanking sidelights.

Located east of the house is a modern garage. The wood-frame structure features a side-gabled roof covered with asphalt shingles, an exterior clad with vinyl siding, and a single bay with an overhead metal door.

NRHP Assessment. Architectural resource AM2607 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2607 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2608**

Blockface#:

Quad:

PIN: 152172

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1402 Cherry Lane**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1402 Cherry Lane, Graham, 27253, on parcel number 152172, newly-recorded architectural resource AM2608 is a Ranch style house with a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2608 was limited to the public right-of-way along Cherry Lane.

AM2608 is a single-story building that features a side-gabled roof covered with asphalt shingles, a wood frame with a vinyl siding-cladded exterior, and double hung 6/6 vinyl sash windows. Facing southeast, the façade is marked by two symmetrically placed entrances that are accessible via a concrete stoops. Attached to the southeast elevation is a modern double-bay garage.

NRHP Assessment. Architectural resource AM2608 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2608 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2609**

Blockface#:

Quad:

PIN: 152082

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1620 Route 54**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1620 NC Highway 54, Graham, 27253, on parcel number 152082, newly-recorded architectural resource AM2609 is a Minimal Traditional style house with a reported construction date of 1942 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2609 was limited to the public right-of-way along NC Highway 54.

AM2609 is a single-story building that features a side-gabled roof covered with asphalt shingles, a wood frame with a brick veneer-cladded exterior, and a brick foundation. Fenestration consists of double hung 6/6 wood sash windows and 12-light fixed wood sash. Facing southeast, the façade is marked by an exterior brick chimney. The main entrance to the house is located on the southwest elevation through a full-width porch that is covered by a shed roof. Attached to the eastern end of the façade is projecting gable-roof wing that includes a 6/6 double-hung wood sash window.

NRHP Assessment. Architectural resource AM2609 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2609 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2610**

Blockface#:

Quad:

PIN: 152108

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1154 Cherry Lane**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1154 Cherry Lane, Graham, 27253, on parcel number 152108, newly-recorded architectural resource AM2610 is a Ranch style house with a reported construction date of 1954 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM2610 was limited to the public right-of-way along Cherry Lane.

AM2610 is a single-story building that features a side-gabled roof covered with asphalt shingles, a wood frame with a vinyl siding-cladded exterior, and a brick foundation. Fenestration consists of double hung 1/1 vinyl sash windows. Facing southeast, the façade is marked by an off-centered door that is accessible via a modern single-bay stoop with a concrete deck. The entry stoop is shielded by a projecting gable roof that is supported by tuned columns composed of synthetic material. Attached to the south elevation is a single-bay garage that contains an overhead metal door.

NRHP Assessment. Architectural resource AM2610 does not exhibit a distinctive architectural style or workmanship. Due to its lack of architectural significance it is the opinion of TRC that architectural resource AM2610 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2611**

Blockface#:

Quad:

PIN: 152082

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **1624 Route 54**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 1624 Route 54, Graham, NC 27253, on parcel number 152082, newly recorded architectural resource AM2611 is an abandoned commercial building that appears to have been constructed ca. 1960 (Alamance County, NC WebGIS 2018). Due to lack of

landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2611 was limited to the public right-of-way along Route 54.

AM2611 is a one-story building that features a shed roof covered with asphalt shingles, an exterior clad with stone veneer, an interior brick chimney, and an exterior end concrete block chimney. Fenestration includes double-hung, 1/1 wood sash and aluminum sash windows and three fixed wood sash windows. A gabled addition is attached to the north elevation and is clad with vertical wood planks.

NRHP Assessment. Architectural resource AM2611 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2611 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2612**

Blockface#:

Quad:

PIN: 152106

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1146 Cherry Lane**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 1146 Cherry Lane, Graham, NC 27253, on parcel number 152106, newly recorded architectural resource AM2612 is a Bungalow-influenced house that is reported to have been constructed in 1942 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2612 was limited to the public right-of-way along Cherry Lane.

AM2612 is a one-and-one-half-story building that features a side-gabled roof covered with asphalt shingles, an exterior clad with vinyl siding, and an interior brick chimney. Fenestration includes double-hung, 6/6 vinyl sash windows. A reconstructed partial-width entry porch features a gabled roof supported by modern tapered wood columns set atop stone-veneer clad plinth blocks and a concrete slab deck. A gabled addition is attached to the south elevation.

NRHP Assessment. Architectural resource AM2612 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2612 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2613**

Blockface#:

Quad:

PIN: 152105

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **1130 Cherry Lane**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 1130 Cherry Lane, Graham, 27253, on parcel number 152105, newly recorded architectural resource AM2613 is a commercial building that is reported to have been constructed in 1966 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2613 was limited to the public right-of-way along Cherry Lane.

AM2613 is a one-story building that features a flat metal roof, a steel frame, an exterior clad with brick veneer, and a continuous concrete foundation. Fenestration includes double-hung, 1/1 metal sash windows. A door on the east elevation serves as the main entrance and is accessed by a brick and concrete stoop topped by a simple metal railing. A loading ramp and door are located on the south elevation. Adjacent to the north is a modern metal-framed building that features a gabled roof and an exterior clad with metal sheeting.

NRHP Assessment. Architectural resource AM2613 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2613 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2614**

Blockface#:

Quad:

PIN: 152104

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1114 Cherry Lane**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 1114 Cherry Lane, Graham, 27253, on parcel number 152104, newly recorded architectural resource AM2614 is a Ranch-style house that is reported to have been constructed in 1967 (Alamance County, NC WebGIS 2018). Due to lack of

landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2614 was limited to the public right-of-way along Cherry Lane. AM2614 is a one-story building that features a side-gabled roof covered with asphalt shingles, a wood frame, an exterior clad with brick veneer, and a continuous brick foundation. Fenestration includes doublehung,

1/1 wood sash windows. Additionally, a bay window containing single-light wood casement sashes is located on a side-gabled wing attached to the south elevation. A stone veneer-clad stoop provides access to the recessed entrance. A modern shed-roofed carport is attached to the west (rear) elevation.

NRHP Assessment. Architectural resource AM2614 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is TRC's opinion that architectural resource AM2614 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Alamance**SSN: **AM2615**

Blockface#:

Quad:

PIN: 152101

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1753 Route 54**

Location Description:

Town/vicinity: **Graham**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Description. Located at 1753 NC Highway 54, Graham, 27253, on parcel number 152101, newly recorded architectural resource AM2615 is a Ranch-style house that is reported to have been constructed in 1962 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2615 was limited to the public right-of-way.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Alamance**SSN: **AM2616**

Blockface#:

Quad:

PIN: 8877434622

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2760 Union Ridge Road**

Location Description:

Town/vicinity: **Burlington**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity: **Not specified** Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2760 Union Ridge Road, Burlington, NC, 27217 (parcel number 8877434622), newly-recorded architectural resource AM2616 has a reported construction date of 1942 (Alamance County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource AM2616 was limited to the public right-of-way along Union Ridge Road.

AM2616 is a single story Minimal Traditional style dwelling. The house features a front gabled asphalt shingle roof with a projecting gable, vinyl siding, and a brick foundation. The façade elevation holds one-over-one vinyl sash windows with vinyl shutters and includes a wood porch with brick and concrete steps. The porch is supported by synthetic columns. Also located on the property is a detached garage with a gabled roof and vinyl siding.

NRHP Assessment. Architectural resource AM2616 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource AM2616 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **AM0447**

Blockface#:

Quad: Mebane

PIN: 153243

X: 36.09181 Y: -79.3645

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Capt Sam Vest House**Street or 911 Address: **308 E. Main Street**Location Description: **N side E. Main Street**Town/vicinity: **Haw River**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource AM0447 is a previously-recorded Queen Anne house that is located at 308 E. Main Street, Haw River 27258 on parcel 153243 (Alamance County, NC GIS 2018) . According to the information provided in the property's initial survey form, the house is locally known as the "Captain Sam Vest House" and was constructed ca. 1896 (Lounsbury 1978). The survey form also indicates that the house was designed by a Raleigh architect with the last name "Ashe" (Lounsbury 1978). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource AM0447 was limited to the public right-of-way along E. Main Street.

The two-and-one-half-story, wood-frame building features steeply pitched hip and gable roofs covered with asphalt shingles, two interior brick chimneys, an exterior clad with weatherboard siding, a foundation composed of brick, and 1/1 double-hung wood sash windows. Facing south, the façade is marked with a central door opening that contains a pair of paneled leaves. Each leaf includes a single glass pane. Flanking the door to the west is a window opening with vinyl shutters. A partial-width porch containing a wood deck provides access to the main entrance. The porch is capped by a hipped roof that is supported by two turned wood posts that appear to date to the original construction of the house. Photographs filed with the survey form indicate that decorative porch brackets were once attached to the posts, but these have been removed. Additionally, the wood balustrade and metal stair railings that are presently on the porch was installed sometime after a 2002 (Barkhan 2002). Situated above the entry porch is a sleeping porch that is accessible from the second story. The sleeping porch is enclosed with glass, but retains the original turned porch column and decorative brackets that are missing from the entry porch. A shed roof caps the sleeping porch. Situated east of the porches is a projecting gable bay that is accented with a canted bay on the first story. The

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canted bay is capped with a hipped roof covered with asphalt shingles, above which is a single window on the second story. Situated within the gable field of the half story is a band of three, square-shaped windows that contain single-pane wood sash. Clad with fish scale wood shingles, the gable field is pierced by a circular bull's eye window.

The east elevation is marked by a side porch that contains a wood deck. The porch is capped with a hipped roof that is supported by original turned posts. Connected to the side porch is a modern wood handicap access ramp.

Highlighting the west elevation is projecting hipped-roof bay window that contains a 2/2 double-hung wood sash window and two narrow window openings with 1/1 double-hung wood sashes. Located in the second story is a three-part window featuring a central 1/1 double-hung wood sash window that is flanked by quarter-round windows with a single light. Accenting the gable field are fish scale wood shingles.

From the public right-of-way, TRC was able to observe a ca. 1950 shed-roof addition attached to a rear ell. The shed addition is pierced by a series of windows containing 4/4 double-hung wood sashes and includes an interior brick flue.

NRHP Assessment. Architectural resource AM0447 is an example of a late-nineteenth century Queen Anne style house in which the exterior of the building has not been significantly altered since its date of construction in 1896. The interior of the house was not accessible at the time of the survey; as a result, TRC's NRHP recommendation is based exclusively on the exterior condition of the house. Overall, the house retains a high degree of integrity through the retention of original character-defining details such as the window sashes, exterior fish scale wood siding, porch posts, and cornice trim woodwork. Moreover, the house has not been significantly altered, and as a result, retains its original scale and massing. Despite the inclusion of a shed-roof addition to the rear ell, which is considered a historic alteration, it is the opinion of TRC that architectural resource AM0447 is potentially eligible for the NRHP under Criterion C for its local significance as a representative example of Queen Anne architecture. The proposed NRHP boundary includes the associated parcel as detailed in the accompanying tax map

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK0001**

Blockface#:

Quad: Northeast Eden
PIN: 157810
X: -79.6580 **Y:** 36.52283
DOT Project #:
OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab
☐ **Removed** ☐ Outbldg Loss
☐ No Acc. ☐ Not Fnd ☐ FileMsg
☐ Newly ID'd ☐ Needs Resch.

Property Name: **Cascade Plantation**

Street or 911 Address:

Location Description: **S side NC 770, 0.6 mi E of jct w/SR 1743**Town/vicinity: **Eden vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLDate: **4/25/1972** ☒ NR NRDate: **10/14/1975** NR #: **417**
☐ DOE DOEdate:
 DOE Type: Local Status: **None** Ownership: **Private**

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource RK0001 is a previously-recorded Federal plantation house that is located at 432 Willow Oak Drive, Eden 27320 on parcel 157810 (Rockingham County, NC GIS 2018; Butler et al., 1975). Locally known as "Cascade Plantation" or "Willow Oaks Farm", the house was listed on the NRHP in 1975 under Criterion C for its architectural significance as a representative example of Federal style architecture and for its rich Adamesque interior that is said to feature elaborate carved woodwork characteristic of the late Federal era (Butler et al., 1975). According to the nomination form, the house was likely built in two phases. The first part, consisting of a three-bay section, is reported to have been constructed ca. 1811 under the direction of William Edward Brodnax. Later, the house was expanded to its current size after the construction of a two-bay addition by Brodnax's son ca. 1820 (Butler et al., 1975). The lands containing Brodnax's house were originally part of an extensive tract of land owned by William Byrd II that he dubbed "Land of Eden". In 1755, Byrd sold a portion of his holdings, some 26,000 acres, spread over Rockingham and Caswell counties, to Antigua merchants, Francis and Simon Farley. In the early nineteenth century, following the death of the Farleys, the property was divided into large lots named the "Sauratown tracts" (derived from the Saura peoples who had populated the area) among the Farley heirs. In 1809, the Farley heirs appointed Brodnax, who had served as a justice and later sheriff of Brunswick County, Virginia, power of attorney to manage the sale of the "Sauratown tracts" (Butler et al., 1975). In 1811, Brodnax purchased Lot # 16 of the "Sauratown tracts" containing 2,664 acres from Brigadier General John S. Farley of Jamaica. Soon afterward, Brodnax is reported to have begun construction of his plantation house, which he is credited to have named "Cascade" after a nearby creek located on the property. Following Brodnax's death in 1820, the house and associated lands were willed to Brodnax's oldest son,

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Robert. Under Robert Brodnax's ownership, the original three-bay house is reported to have been enlarged to its present five-bay appearance. Over the ensuing decades, the house was transferred to Brodnax family descendants. Mary W. Brodnax, the daughter of Robert Brodnax, acquired the house and occupied it well into the late 1880s. Mary Brodnax was married to John G. Brodnax, a prominent Virginia physician who served as a Confederate medical officer during the Civil War, and who operated his practice from a building on the property (no longer extant) (Butler et al., 1975).

Brodnax family ownership of the house continued in 1889 as the land comprising the property was divided among Mary Brodnax's two children, Mary and Nancy, with Nancy retaining ownership of the house. However, soon after acquiring her share of the property, Nancy sold the house and land interest to F. H. Burton and T. B. Fitzgerald. Fitzgerald, who served as president of Riverside Cotton Mills in Danville, Virginia resided at the house for many years and renovated the house. The renovation undertaken by Fitzgerald were likely the installation of modern conveniences such as plumbing and electrical wiring. By 1916, the house came under the ownership of Richard Ivy Smith, who later willed the property to his son, Richard Ivy Smith III. During the Smiths' ownership, the family utilized the land for agricultural purposes. Today, the house and roughly 2,000 acres are owned by Willow Oak Plantation LLC (WOP) who have utilized the former plantation grounds to host hunting and various outdoor sporting activities (www.willowoaksplantation.com 2014). In addition, WOP continues to utilize the lands for agricultural purposes in the production of wheat, corn, barley, and oats (www.EWG.org 2018; Rockingham County, NC GIS 2018;).

Since purchasing the property in 2001, the WOP has constructed several buildings and structures within proximity to the house that are linked to their business operation. Some of these include: a 2004 stone pavilion that fronts the east elevation of the house; paved surface parking lots; two ca. 2004 agricultural buildings; a tennis court, three metal grain bins that were added in 2003; a ca. 2004 water pump shed; a 2011 agricultural building and equipment shed; and a 3,302 sq. ft. hunting lodge that was constructed in 2005 (Rockingham County, NC GIS 2018).

Architecturally, Cascade Plantation is a two-and-one-half-story, center-hall plan house. The wood-frame building features a side-gabled roof covered with standing seam metal, an exterior clad with weatherboard siding, and a continuous brick foundation that is pierced by a series of basement windows. Classical detailing in the form of mutules with guttae adorn the façade and east (rear) elevation cornice. Facing west, the primary façade is symmetrically arranged with a central door opening that contains a pair of wood doors with each leaf accented with three raised panels. The doors are preceded by a wood storm door that appears to be a repurposed paneled door that has been modified with glass panes. The main entrance is topped with a fanlight flanked on either side by leaded-glass sidelights with a lower panel. Overall, the door surround is accented with molded trim work.

A one-story, center bay, portico provides access to the main entrance. A review of photographs taken when the house was nominated to the NRHP reveals that the portico has been completely reconstructed since the time of its listing. The current portico contains a wood deck atop a brick foundation that is fronted by a set of brick steps. A flat roof with a molded cornice is supported by a pair of wood Tuscan-style columns that do not appear to be original to the house. A non-original wood French door on the second story provides access to a galleried porch that is adorned with a metal balustrade with spindles. At the time of the property's listing, the second story door opening contained a double-hung 9/6 wood sash window, but the author of the nomination indicates that this opening had originally contained a door (Butler et al., 1975). Fenestration along the façade consists of two window openings on each story, which flank the center bay and contain modern double-hung 9/9 wood sash windows. Window openings throughout the house are adorned with architrave molding.

Both the north and south elevations of the house are highlighted by a pair of exterior end brick chimneys laid in Flemish bond (Butler et al., 1975). The north elevation is pierced by two asymmetrically placed first story windows that contain modern 9/9 double-hung wood sashes. Located in the half story is a pair of modern 6/6 double-hung wood sash windows.

The east (rear) elevation of the house reveals the original three-bay section that is reported to have been constructed during William Brodnax's tenure. This portion of the house includes a wood door with three vertical lights that is flanked to the south by two double-hung 9/9 modern wood sash windows. A reconstructed shed-roof porch spans the width of the three-bay section. The porch contains a wood deck and

four square-shaped wood posts. Located on the interior north wall of the porch (on the two-bay addition that is attributed to Robert Brodnax) is a single leaf wood paneled door. A review of photographs taken of this elevation of the house in 1980 reveals that the porch at the time of the property’s listing featured chamfered wood posts with decorative brackets characteristic of Folk Victorian architecture. Additionally, the porch included a jigsaw cut wood balustrade porch railing (DigitalNC 2018).

Situated along the second story of the three-bay section are two symmetrically placed windows and an irregularly positioned third window that sits just above the porch roof. Each of these windows contain modern 9/6 double-hung wood sashes. Finally, a modern wall dormer, which was not present at the time of the property’s listing, is located along the half story and features a band of three 9/9 double-hung wood sash windows. This sash type is repeated in the adjoining two-bay addition, which includes two windows on the first and second stories.

Attached to the south elevation of the house is a single story, hipped-roof, wing that was present at the time of the property’s listing on the NRHP. The wing features an exterior clad with weatherboard wood siding on a wood-frame, a modern interior brick chimney, and a brick foundation. In the early 2000s, the wing was extensively remodeled to include a sunroom, a new door surround on the south elevation entrance, and a series of 8-light fixed wood sash windows topped with four-light wood transoms. As part of the renovation, some of the original window openings were enlarged and the roof was raised. This sash type also occurs on a canted bay that is located on the wing’s east elevation. The wing’s primary façade (west elevation) is marked by a recessed porch that is integral with the roof. The porch is adorned with modern wood columns and provides access to two doors. Flanking the porch to the north are two window openings containing modern 9/9 double-hung wood sashes. Both the east and west elevations of the wing feature a modern gable dormer with a fanlight. Finally, the half story of the main block contains a modern 6/6 double-hung wood sash window.

At the time of its survey, TRC did not have access to the interior of the house. However, current views of the house’s interior are available online through a Realtor’s website, which shows that the south elevation wing has been largely rebuilt to accommodate a new den, dining room, and a kitchen. In addition, modern timbers have been applied to the interior ceilings, this includes a vaulted ceiling that has been added to the kitchen area. Despite the changes to the wing, the photos indicate that the original Adamesque woodwork identified in the nomination form appear to be largely intact (www.hallhall.com 2018).

NRHP Assessment. In 1975, Willow Oaks was listed on the NRHP in 1975 under Criterion C for its architectural significance as a representative example of Federal style architecture and for its rich Adamesque interior that is said to feature elaborate carved woodwork characteristic of the late Federal era (Butler et al., 1975). According to the nomination form, the property included two contributing resources: a smokehouse and a frame house that functioned as the planation office and doctor’s office for Dr. John G. Brodnax (Butler et al., 1975). In addition, the nominated property consists of six acres, however, the NRHP boundaries for the property are not illustrated in the official nomination. Rather, a UTM point is depicting indicating the location of the property. According to the NC-SHPO, the six acres associated with Willow Oaks Plantation likely includes an arbitrary area immediately surrounding the house (Harville 2018). Since the time of its listing on the NRHP, the plantation house has been significantly altered. Modern alterations include the replacement of the original windows sashes that were in place in 1975, the reconstruction of the façade portico; the installation of the wall dormer on the east elevation; the reconstruction of the east elevation porch; and the extensive remodeling of the south wing. Additionally, the historic setting of the property has been diminished through the construction of a series of early twenty-first century agricultural buildings and structures associated with the property’s recent use as a commercial entertainment venue. Considering the extensive changes that have occurred to the principal house and to the immediate grounds within proximately to the plantation house, TRC recommends that further study be undertaken to determine if Willow Oaks retains sufficient integrity to remain listed on the NRHP. For these reasons, it is TRC’s opinion that architectural resource RK0001 is potentially eligible for the NRHP under Criterion C.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Tuesday, November 20, 2018				

Water Tower

- A ca. 1920 water tower. The steel-frame structure features a cylindrical tank that is capped with a conical metal roof. The tank is supported by four steel legs that are reinforced with x-bracing

silo

- A disused concrete silo that no longer features a roof. County parcel data indicates that the silo was built in 1960 (Rockingham County, NC GIS 2018)

Cemetery

- A small cemetery containing the graves of Brodnax family members. The cemetery includes two table tombs that feature a flat marble tablet that is supported by six chamfered pillars. In addition, the cemetery includes an upright marble tablet with a dome and shoulders

Smokehouse

- A ca. 1900 smokehouse that no longer appears to be in use. This resource is identified in the NRHP form as a contributing structure to the listed property (Butler et al., 1975). The wood-frame structure features a pyramidal roof covered with standing seam metal, an exterior clad with beaded weatherboard siding, and a brick foundation. A door opening without a leaf is located on the west elevation

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1396**

Blockface#:

Quad: Southeast Eden

PIN: 146375

X: -79.6973 Y: 36.46018

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1674 Moir Mill Road**Location Description: **S side SR 1945, S end dirt dr, 1.6 mi E of SR 2039**Town/vicinity: **Eden vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource RK1396 is a previously-recorded residence that is located at 1674 Moir Mill Road, Reidsville 27320 on parcel 146375 (Rockingham County, NC GIS 2018). The property consists of a plain/traditional style residence that county parcel data reports as having been constructed in 1925 (Rockingham County, NC GIS 2018). However, the property's survey form places the construction date of the house to ca. 1900, which TRC believes is a more accurate date based on the the building's plan and massing (Woodard 2002a). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1396 was limited to the public right-of-way along Moir Mill Road.

The building features a side-gabled roof covered with standing seam metal, an interior brick chimney, an exterior clad with asphalt shingle siding, a foundation composed of fieldstones, and 6/6 double-hung wood sash windows (Woodard 2002a). The three-bay façade contains a central porch with a concrete deck that provides access to the main entrance. The porch is shielded by a hipped roof that is supported by decorative metal posts. According to the property's survey form, a one-story gable-roof ell extends from the west (rear) elevation.

Rockingham County tax data indicates that three tobacco barns constructed in 1950 are located on the property (Rockingham County, NC GIS 2018). However, TRC could not confirm the presence of the tobacco barn or other agricultural outbuildings that may be associated with the property due to limited access.

NRHP Assessment. Architectural resource RK1396 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to its lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1396 is not eligible for the NRHP.

Outbuildings/Features

Actions

North Carolina State Historic Preservation Office

Historic Property Survey Summary

County: **Rockingham**

SSN: **RK1397**

Blockface#:

Quad: Southeast Eden

PIN:

X: -79.6948 Y: 36.46147

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab

☐ **Removed** ☐ Outbldg Loss

☐ No Acc. ☐ Not Fnd ☐ FileMsg

☐ Newly ID'd ☐ Needs Resch.

Property Name: **House**

Street or 911 Address:

Location Description: **N side SR 1945, 1.6 mi E of SR 2039**

Town/vicinity: **Eden vicinity**

District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **GONE** Location Integrity:

Architectural Data: Date(s): **Not specified**

Major Style Group(s) **Not specified**

Construction: **Not specified**

Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Summary:

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1530**

Blockface#:

Quad: Williamsburg

PIN: 158586

X: -79.6131 Y: 36.36769

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ Removed ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Dixon House**Street or 911 Address: **3200 US Highway 158 Highway**Location Description: **S side US 158, 0.4 mi W of SR 2651**Town/vicinity: **Reidsville vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource RK1530 is a previously-recorded residence that is located at 3200 US Highway 158, Reidsville 27320 on parcel 158586 (Rockingham County, NC GIS 2018). The property consists of a plain/traditional style residence with a reported construction date of 1875 (Rockingham County, NC GIS 2018; Smith 2002a). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1530 was limited to the public right-of-way along US Highway 158.

According to the survey form, RK1530 is a two-story log house with a one-story rear ell that may pre-date the main block (Smith 2002). The building features a side-gabled roof, an exterior clad with vinyl siding, a foundation composed of fieldstone piers with concrete block fill, and 1/1 double-hung vinyl sash windows. An exterior end stone chimneys with brick stacks are located on the east and west elevations of the house. A modern, full-width porch with a wood deck provides access to the main entrance. The porch is shielded by a shed roof that is supported by four posts composed of synthetic material. NRHP Assessment. Architectural resource RK1530 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to its lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1530 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Equipment Shed	Frame	1900	Good	No

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A ca. 1900 equipment shed. The wood frame structure features a gable-front roof covered with standing seam metal and an exterior clad with wide horizontal wood boards. Open bay shed wings are attached to the east and west elevations

Storage Shed

Concrete Block

Modern

Good

No

A modern concrete block storage shed. The structure is capped with a gable-front roof covered with asphalt shingles

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1531**

Blockface#:

Quad: Williamsburg

PIN: 157810

X: -79.6129 Y: 36.35335

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ Removed ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Settle Family Cemetery**Street or 911 Address: **Brooks Road**Location Description: **S side SR 2579, 0.3 mi W of SR 2588**Town/vicinity: **Reidsville vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☒ StudyListSLDate: **10/9/2003**☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**Ownership: **Private****Principal Resource** Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource RK1531 is a previously-recorded cemetery that is located on the south side of Brooks Road, Reidsville 27320 on parcel 157810 (Rockingham County, NC GIS 2018). Locally known as the "Settle Cemetery", the resource consists of approximately 20 visible grave markers dating between 1826 and 1903 that are predominantly associated with the Settle family (Findagrave.com 2018; Smith 2002b, Woodard 2002). According to the resource's survey form, the Settles were one of Rockingham County's more influential and wealthy families of the nineteenth century (Woodard 2002). The cemetery contains the burial of Thomas Settle, Sr. (b. 1789 d. 1857) who served the county as a state legislature in the 1810s, a United States congressman between 1817 and 1821; and as a Superior Court Judge in 1832 (Findagrave.com 2018).

The Settle family's wealth and high status among Rockingham County's society were reflected in their significant land and slave holdings. According to the 1850 federal census, the value of Thomas Settle's real estate was valued at \$23,000, which is equivalent to the purchasing power of \$744,000.00 in 2018 (Officialdata.org 2018). Following his death, Settle bequeathed three plantations, the Governor Reid, Mulberry Island, and Eagle Falls, to his children Henrietta, Thomas Jr., and Mary respectively (Findagrave.com 2018).

Settle's brother, Josiah Settle, who operated a farm in the county before moving to Ohio in the 1850s, owned \$2,500 worth of land (roughly \$81,000 in 2018 dollars (Officialdata.org 2018). Though the value of Josiah Settle's real estate holdings were considerably less than his brother, Josiah owned more slaves than Thomas.

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The 1850 federal slave schedules report that Josiah Settle owned 38 slaves, which was eight more than his brother (Ancestry.com 2018). Interestingly, the cemetery features the burial of one of Josiah's slaves, Washington. Based on the inscription on the gravestone, Washington was a 16-year-old "servant" who "accidentally shot himself" on Christmas Day in 1846. Washington's gravestone is documented to be the only inscribed African-American gravestone from the antebellum period in Rockingham County (Woodard 2002). Aside from Washington, the cemetery is believed to have functioned as an African-American burial ground since its inception up until the early twentieth century. The survey form indicates that "as many as one hundred" unmarked graves may be associated with the site (Woodard 2002).

Other notable persons buried in the cemetery include Martha Martin Douglas (b. 1824 d. 1853), who married 1860 presidential candidate Stephen A. Douglas in Rockingham County in 1847 (Findagrave.com 2018). As such, the cemetery includes three other members of the Martin family. These include Henrietta Martin (b. unknown d. 1839), Lucinda Settle Martin (b. unknown d. 1846), and Robert Martin (b. 1781 d. 1848). In addition to Thomas Settle, the cemetery includes ten other members of the Settle family, two graves associated with the Stanfield family, and one grave for a member of the Epps and Reid family.

Stylistically, the grave markers found in the cemetery include two obelisks marking the burials of Henrietta and Thomas Settle, which are marked with bas relief carvings of a hand pointing to heaven (Woodard 2002). Burials of the Martin family include raised vaults with inscribed flat tablets composed of marble. Flat marble tablets also mark the burial of the other Settle family members, but these markers are not raised. The grave of Washington is an arched upright marble tablet.

NRHP Assessment. In accordance with NRHP Criteria Consideration D, cemeteries are normally not eligible for the NRHP unless they derive their primary significance from graves of persons of significant importance, from age, from architectural distinction, or are considered to be of historical importance. TRC's historical research indicates that Thomas Settle, Sr. who is buried at the cemetery figured prominently in the early political history of Rockingham County. Additionally, the cemetery is reported to be the burial site of many African-Americans who either were slaves or were the descendent of slaves once owned by the Settle families.

In addition, the cemetery features a strong, and fairly intact, collection of raised vault grave markers that are not commonly found in rural cemeteries in Rockingham County. Though many of the raised vaults were subject to vandalism, they were partially restored by a local cemetery restoration group. Despite past damage to the raised vaults, the cemetery overall appears to retain a high degree of integrity. In 2003, the NC-SHPO determined architectural resource RK1531 potentially eligible for the NRHP (Crow 2003). Based on its historical and architectural significance, it is the opinion of TRC that architectural resource RK1531 is potentially eligible for the NRHP under Criterion Consideration D.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1534**

Blockface#:

Quad: Williamsburg

PIN: 174996

X: -79.5977 Y: 36.33425

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Thacker-Cross Farm**Street or 911 Address: **141 Manley Farm Road**Location Description: **N side SR 2571 at jct w/SR 2579**Town/vicinity: **Reidsville vicinity**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☒ StudyListSLDate: **10/9/2003**☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**Ownership: **Private****Principal Resource** Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource RK1534 is a previously-recorded farmstead that is located at 141 Manley Farm Road, Reidsville 27316 on parcel 174996 (Rockingham County, NC GIS 2018). The farmstead consists of 45.01 acres and is anchored by a one-and-one-half-story gable-roof residence that was constructed in 2012 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1778 was limited to the public right-of-way along Brooks Road and Grooms Road.

Architectural resources associated with the property and identified in the survey form include a two-story, plain/traditional dwelling with a reported construction date of 1900 (Rockingham County, NC GIS 2018). The building features a side-gabled roof, wood frame with asphalt shingle veneer exterior, a brick foundation, and double-hung 2/2 wood and vinyl sash windows. A full-width porch devoid of a deck provides access to the main entrance. The porch is shielded by a shed roof that is supported by a series of unfinished logs.

NRHP Assessment. Architectural resource RK1534 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). In addition, the historic setting of the farm has been diminished through the construction of the modern residence on the parcel and modern development within view to the property. Furthermore, RK1534 retains only one associated agricultural outbuilding that is 50 years of age. Due to the introduction of a modern residence on the property and the minimum number of extant historic agricultural outbuildings, it fails to exemplify an

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intact early-twentieth century farmstead, thereby rendering the property ineligible for its agricultural associations. Due to its lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1534 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Livestock Barn	Frame	1950	Good	

Located northeast of the dwelling is a one-and-one-half-story livestock barn with a reported construction date of 1950 (Rockingham County, NC GIS 2018). The structure features a gable-hipped roof, wood frame with weatherboard exterior, a brick foundation, and a 6-light fixed wood sash window. A centrally placed open bay is located on the north elevation. The bay is flanked on either side by two wood doors. An additional bay containing a pair of swinging wood doors is located on the east elevation

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1655**

Blockface#:

Quad:

PIN: 178708

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **311 Buffalo Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Architectural resource RK1655 is a newly-recorded farmstead, which is situated at 12910 NC Highway 770, Eden 27288 on parcel 178708 (Rockingham County, NC GIS 2018). The farmstead consists of 219.16 acres and is anchored by a Minimal Traditional style house that has a reported construction date of 1940 (Rockingham County, NC GIS 2018).

The one-and-one-half-story, wood-frame building features a side-gabled roof, an interior brick chimney, an exterior clad with vinyl siding, a continuous brick foundation, and double hung 6/6 vinyl sash windows. Facing north, the façade is marked by multiple projecting gable bays that are clad with vinyl siding. The front-facing gable contains a canted bay with four double-hung 6/6 vinyl sash windows. A door is positioned west of the canted bay on a preceding gable bay. Situated east of the projecting bay is a partial-width porch that may have led to the original entrance to the house. The porch is shielded by a metal shed roof that is supported by two wood posts. Attached to the east elevation of the house is a shed-roof wing that is pierced by a series of double-hung 6/6 vinyl sash windows.

NRHP Assessment. Architectural resource RK1655 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). In addition, the farm no longer conveys its original ca. 1940 appearance, thereby rendering the property ineligible for its agricultural associations. Due to the lack of historic and architectural significance, it is the opinion of TRC that architectural resource RK1655 is not eligible for the NRHP.

Outbuildings/Features

FeatureType

Material

CircaDate Condition

Contrib

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Hunting Stand

A modern hunting stand

Livestock Feeder

A ca. 1970 livestock feeder. The wood-frame structure is capped with a side-gabled roof that is supported by a series of wood posts

Silo

A ca. 1940 concrete silo that is capped with a dome metal roof

Pole Shed

A late twentieth century pole shed. The wood-frame structure is capped with a shed roof that is supported by a series of wood poles

Office Building

A ca. 1975 office building. The single-story building features a flat roof, a brick veneer-cladded exterior, and double-hung 1/1 metal sash windows. The building includes a metal door on the north (primary) elevation. Situated on the west elevation is an exterior end brick chimney and a vehicle bay that contains an overhead metal door

Grain Silo

two ca. 1975 metal grain silos

Vehicle Maintenance Building

A ca. 1975 agricultural vehicle maintenance building. The wood-frame building features shed roofs covered with standing seam metal and an exterior clad with corrugated metal paneling. The building includes two vehicle bay entrance on the southwest elevation

Pump House

A ca. 1940 concrete block pump house. The structure is capped with a pyramidal roof covered with asphalt shingles and includes a 6-light wood sash window. A door is located on the southwest elevation

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1656**

Blockface#:

Quad:

PIN: 178708

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**

Street or 911 Address:

Location Description: **off Berry Hill Rd.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located on the south side of NC 770, Eden, 27288, on parcel 178708, architectural resource RK1656 is a vacant one-and-half-story log house that appears to have been constructed in the late nineteenth century (Rockingham County, NC GIS 2018). The house is heavily covered in dense foliage, which limited TRC's evaluated of the resource.

The single-pen building features a side-gabled roof covered with standing seam metal, an exterior composed of hewn logs joined together with v-notching, and a stone pier foundation. The daubing applied to the structure appears modern, which suggests that the building was maintained up until the late twentieth century. Facing northeast, the façade is marked by an off-centered door opening containing a wood panel door. Attached to the southeast elevation is an exterior end stone chimney with a brick stack. Flanking the chimney to the west is a window opening that contains no sashes. Weatherboard siding is applied over the gable field of the half-story.

The northwest elevation is pierced by a centrally placed window that contains a board and batten wood shutter. An additional window opening in the half story has been partially enclosed with weatherboard siding and includes a 1/1 metal sash window. As with the southeast elevation, the gable field on the northwest elevation is clad with weatherboard siding.

Located on the southwest (rear) elevation of the building is a centrally placed door opening containing a wood panel door. From this door, TRC was able to observe the interior of the first floor, which features a

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box stair at the north corner of the room; a fireplace and mantel along the southeast wall; and the half-story floor joists, which appear to be machine-sawn wood boards .

Attached to the rear elevation is an open breezeway topped with a standing seam metal roof that connects the house to a single-pen log extension. The extension features a side-gabled roof covered with standing seam metal, an exterior composed of hewn logs joined together with v-notching, and a stone pier foundation. The daubing applied to the extension appears modern, which further indicates that the building was maintained up until the late twentieth century. A door opening is located on the southwest elevation of the extension. Positioned on the southwest slope of the roof is an interior brick chimney.

NRHP Assessment. Architectural resource RK1656 is an excellent, intact, example of a late-nineteenth century single-pen log house with an attached log extension that exhibits few modern alterations. The only alteration observed to the building is the installation of a metal sash window in the half-story of the northwest elevation. Further research of the property is required to determine if the property is associated with important historical event(s) or person(s). Though the building is largely overgrown with vegetation, the physical integrity of the building remains high. Due to its architectural significance, it is the opinion of TRC that architectural resource RK1656 is potentially eligible for the NRHP under Criterion C as an excellent local example of a late nineteenth century log house.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1657**

Blockface#:

Quad:

PIN: 146782

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2301 3rd Street**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2301 Third Street, Eden, 27288, on parcel 146782, architectural resource RK1657 has a reported construction date of 1958 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1657 was limited to the public right-of-way along Third Street.

RK1657 is a single story, side-gabled dwelling. The structure features a roof covered with asphalt shingles, wood frame with a vinyl siding exterior, a concrete block foundation, and double hung 1/1 and 4/4 vinyl sash windows. A center-bay concrete stoop provides access to the main entrance. Attached to the north elevation is side-gable wing.

NRHP Assessment. Architectural resource RK1657 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1657 is not eligible for the NRHP.

Outbuildings/Features

FeatureType

Material

CircaDate Condition

Contrib

Carport

Metal

Located south of the house is a modern prefabricated metal carport

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1658**

Blockface#:

Quad:

PIN: 176866

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **140 Pineknott Drive**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 140 Pine Knott Drive, Eden, 27288, on parcel 176866, architectural resource RK1658 has a reported construction date of 1957 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1658 was limited to the public right-of-way along Pineknott Drive.

RK1658 is a single story, Ranch style dwelling. The structure features a side-gabled roof covered with asphalt shingles, wood frame with a brick veneer-cladded exterior, and double hung 1/1 vinyl sash windows. The house is connected to a two-story, side-gabled roof addition via a modern building hyphen. The building hyphen is topped with a side-gabled roof covered with asphalt shingles and features an exterior clad with vinyl siding. Situated along the east elevation of the hyphen is a door and a pair of double hung 1/1 vinyl sash windows and a multi-light metal door. The adjoining two-story addition is capped with a side-gabled roof covered with asphalt shingles and includes an exterior clad with a brick veneer.

Located south of the house is a Quonset Hut that functions as a shop building and has a reported construction date of 1957 (Rockingham County, NC GIS 2018). The metal frame structure features a barrel roof composed of corrugated metal. The primary façade is dressed with concrete blocks and topped by tile coping. The structure includes a vehicle bay containing an overhead wood door with eight lights. Located west of the vehicle bay is a metal pedestrian door with a single light in its upper portion. The door is shielded by a metal shed canopy.

NRHP Assessment. Architectural resource RK1658 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1658 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1659**

Blockface#:

Quad:

PIN: 146745

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2142 3rd Street**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2142 Third Street, Eden, 27288, on parcel 146745, architectural resource RK1659 has a reported construction date of 1906 (Rockingham County, NC GIS 2018). County tax parcel data also indicates that the house was extensively remodeled in 1998 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1659 was limited to the public right-of-way along Third Street.

RK1659 is a one-story, plain/traditional style dwelling. The structure features a side-gable roof, wood frame with vinyl siding exterior, and a concrete block foundation. Fenestration consist of 6/6, double-hung vinyl sash windows. A center bay stoop with a concrete slab provides access to the main entrance. The stoop is shielded with a projecting gable roof that is supported by two posts comprised of synthetic material. An open, single-bay carport is attached to the northeast elevation.

NRHP Assessment. Architectural resource RK1659 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1659 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1660**

Blockface#:

Quad:

PIN: 146697

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2025 3rd Street**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2025 Third Street, Eden, 27288, on parcel 146697, architectural resource RK1660 has a reported construction date of 1941 (Rockingham County, NC GIS 2018). County tax parcel data also indicates that the house was extensively remodeled in 1960 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1660 was limited to the public right-of-way along Third Street.

RK1660 is a one-story, Minimal Traditional style dwelling. The structure features a gable-front and side-gable roof, an interior brick chimney, wood frame with aluminum siding exterior, and a raised foundation clad with a faux stone veneer. Fenestration consist of 6/6, 1/1, and 2/2 double-hung wood sash windows. A partial-width porch with a concrete slab provides access to the main entrance. The porch is shielded with a shed roof that is supported by two wood posts. A single-bay garage containing an overhead wood door is positioned at the basement level along the primary facade.

NRHP Assessment. Architectural resource RK1660 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1660 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1661**

Blockface#:

Quad:

PIN: 176580

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **116 Quesinberry Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Description. RK1661 is a 20th century dwelling located at 116 Quesinberry Road, Eden, NC 27288. The parcel number is 176580. The L-plan Minimal Traditional style dwelling was constructed in 1947 (Rockingham County, NC WebGIS 2018). The frame dwelling has a gabled roof, exterior synthetic siding and a brick foundation. Windows are replacement 1/1. Doors are also replacement; these modifications date to ca. 2010.

NRHP Assessment. Architectural resource RK1661 is a modified Minimal Traditional style dwelling that does not exhibit distinctive characteristics of architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through the addition of synthetic siding and replacement of doors and windows. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is TRC's opinion that architectural resource RK1661 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1662**

Blockface#:

Quad:

PIN: 176577.

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **123 Quesinberry Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Description. RK1662 is a 20th century dwelling located at 123 Quesinberry Road, Eden, NC 27288. The parcel number is 176577. The gable-front plan frame dwelling was constructed in 1947 (Rockingham County, NC WebGIS 2018). The dwelling has an original paneled door, 6/6 windows, and a rear shed wing clad with horizontal board siding. The foundation is concrete.

NRHP Assessment. Architectural resource RK1662 is a gable-front plan frame dwelling that does not exhibit distinctive characteristics of architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is TRC's opinion that architectural resource RK1662 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1663**

Blockface#:

Quad:

PIN: 176577

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **4998 NC 700**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1663 is an early twentieth-century farmstead located at 4998 NC Highway 700, Eden, NC 27288. Parcel number is 176577. Of note, the 65.58-acre farmstead includes architectural resource RK1662. Views of the property were limited to photos from NC Highway 700 (restricted access). The associated dwelling was constructed in 1921 (Rockingham County, NC WebGIS 2018). The farmstead includes a number of outbuildings, described below. The 1.5-story dwelling has a front-gabled roof, exterior synthetic siding, a full shed porch (one-story), a brick foundation and replacement one-over-one vinyl sash windows. At the southeast elevation is an attached cross-gabled garage wing constructed in 1950 (vinyl sided c. 2015).

NRHP Assessment. Architectural resource RK1663 is an early twentieth-century farmstead that features an altered dwelling. The associated buildings fail to exhibit distinctive architectural characteristics or evidence of unique workmanship. The dwelling's architectural integrity has been compromised by the addition of exterior synthetic siding, replacement of original windows, and large southeast wing addition. Based on the farmstead's overall lack of architectural merit, as well as the inability to associate the property and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1663 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Barn (general)				

A 1-story board and batten barn with a concrete foundation (mid-20th century).

Tuesday, November 20, 2018

Shed - general storage

A 1-story gable-front plan shed with horizontal board siding (mid-to-late 20th century).

barn

A 1-story storage shed/barn with side open plan storage wings and corrugated metal siding (early-to-mid 20th century).

Barn (general)

Frame

A 1-story vertical board barn (early 20th century)

Barn (general)

Frame

A 2-story vertical board frame barn (early 20th century)

Tobacco Barn

Log

A log tobacco barn with a metal open shed storage wing (early 20th century)

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1664**

Blockface#:

Quad:

PIN: 176577

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **4924 NC Highway 700**Location Description: **NC 700**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1664 is a single-story concrete block building constructed c. 1940 as a bus station (per local residents). The building is located at 4924 NC Highway 700, Eden, NC 27288 . The parcel number is 176577 (Rockingham County, NC WebGIS 2018). The rectangular plan building has a hipped roof, concrete block walls and a concrete block foundation. Windows and doors are covered with plywood. A south corner shed wing, also constructed of concrete block, appears to have housed a public restroom originally.

NRHP Assessment. Architectural resource RK1664 does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the property and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1664 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1665**

Blockface#:

Quad:

PIN: 146655

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **296 Quesinberry Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1665 is an early 20th century frame dwelling located at 296 Quesinberry Road, Eden, NC 27288 . The parcel number is 146655. The dwelling was constructed in 1923 (Rockingham County, NC WebGIS 2018). The dwelling has a hipped roof, exterior vinyl siding and a brick foundation. Windows are replacement one-over-one and original three-over-one design. The primary door is replacement c. 2010.

NRHP Assessment. Architectural resource RK1665 is a modified dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through the addition of synthetic siding and replacement of original doors and windows. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1665 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1666**

Blockface#:

Quad:

PIN: 156467

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6166 S. NC Hwy 700 Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1666 is a 20th century dwelling located at 6166 NC Highway 700, Eden, NC 27288. The parcel number is 156467. The Minimal Traditional style dwelling was constructed in 1946 (Rockingham County, NC WebGIS 2018). The frame dwelling has a gabled roof, exterior vinyl siding and a concrete block foundation. Windows are replacement one-over-one with exception of the picture style window on the façade (northeast elevation). The primary door is replacement paneled design with a fanlight. The projecting gable wing (southeast elevation) holds three window bays; the northwest elevation holds one window bay. A prefabricated carport is situated southwest of the dwelling. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1666 was limited to the public right-of-way along NC Highway 700.

NRHP Assessment. Architectural resource RK1666 is a modified Minimal Traditional style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through the addition of synthetic siding and replacement of doors and windows. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1666 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1667**

Blockface#:

Quad:

PIN: 175883

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **668 Quesinberry Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1667 is a 20th century dwelling located at 668 Quesinberry Road, Eden, NC 27288. The parcel number is 175883. The 1.5-story dwelling was constructed in 1930 (Rockingham County, NC WebGIS 2018). The frame dwelling has a gabled roof, exterior aluminum siding and a concrete block foundation. Windows are replacement one-over-one. Gable fields retain original six-over-six windows.

NRHP Assessment. Architectural resource RK1667 is a modified dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through the addition of aluminum siding and replacement of first-story windows. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1667 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1668**

Blockface#:

Quad:

PIN: 165902

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**

Street or 911 Address:

Location Description: **Corner of Quesinberry Rd and Town Creek Rd.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1668 is a 20th century dwelling located at the southwest intersection of Town Creek and Quesinberry Roads. The building is associated with the property addressed as 149 Town Creek Road, Eden, NC 27288. The parcel number is 165902 (Rockingham County, NC WebGIS 2018). The dwelling was constructed c. 1960. The one-story building has a gabled roof, exterior concrete block walls and a concrete block foundation. Windows are covered with wood. The northwest elevation has vertical board doors. The southeast elevation holds a replacement c. 2010 paneled door. Immediately north of the dwelling is a gabled open plan shed.

NRHP Assessment. Architectural resource RK1668 is a modified dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through conversion of the dwelling for use as an agricultural property, resulting in enclosure of windows and removal of original doors. Based on the lack of architectural merit or integrity, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1668 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1669**

Blockface#:

Quad:

PIN: 146594

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **149 Town Creek Road**Location Description: **Town Creek Rd**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1669 is a 20th century dwelling located at 149 Town Creek Road, Eden, NC 27288. The parcel number is 146594. The Minimal Traditional style dwelling was constructed in 1941 (Rockingham County, NC WebGIS 2018). The frame one-story rectangular plan dwelling has a gabled roof, exterior vinyl siding and a concrete foundation. Windows are replacement one-over-one. Doors are also replacement. Northeast of the dwelling is a prefabricated carport with an attached shed.

NRHP Assessment. Architectural resource RK1669 is a modified Minimal Traditional style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through the addition of synthetic siding and replacement of original doors and windows. Based on the lack of architectural merit and integrity, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1669 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1670**

Blockface#:

Quad:

PIN: 146579

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**

Street or 911 Address:

Location Description: **Town Creek Rd**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1670 is a c. 1900 dwelling without an assigned address. The dwelling is located immediately north of 243 Town Creek Road, Eden, NC 27288. The parcel number is 146579 (Rockingham County, NC WebGIS 2018). The 1.5-story log single pen dwelling has a gabled roof clad with metal, v-notched log walls and a stone foundation. Within the primary one-story (reconstructed or new) shed porch is a single door offset by a one-over-one window. Windows and doors are replacement. The northwest (rear) elevation holds a one-story gabled enclosed porch. The dwelling has an exterior end stone and brick chimney. Photos are largely obscured by dense foliage that surrounds the house.

NRHP Assessment. Architectural resource RK1670 is a log dwelling that appears to have been constructed c. 1900. Interior information is necessary to fully assess the dwelling's architectural integrity but based on the construction methods and workmanship, the dwelling appears potentially eligible for the National Register of Historic Places (NRHP) under Criterion C: Architecture. Modifications such as the replacement of doors and windows do not detract from the dwelling's architectural importance due to the retention of original exposed log walls and retention of the original fenestrations. Based on the merits of the dwelling's architectural features, it is the opinion of TRC that the dwelling is potentially eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1671**

Blockface#:

Quad:

PIN: 146578

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **243 Town Creek Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1671 is an altered 20th century dwelling located at 243 Town Creek Road, Eden, NC 27288. The parcel number is 146578. The one-story rectangular plan dwelling was constructed in 1927 (Rockingham County, NC WebGIS 2018). The frame dwelling has a gabled roof, exterior vinyl siding and a brick and concrete foundation. Windows are replacement one-over-one. The primary entry is off-center on the facade and retains an original multi-light paneled door. Modifications date to c. 2010. Southeast of the dwelling is a vertical board outbuilding with a metal gabled roof.

NRHP Assessment. Architectural resource RK1671 is a modified dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Additionally, the building's architectural integrity has been compromised through the addition of synthetic siding and replacement of windows. Based on the lack of architectural merit and integrity, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1671 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1672**

Blockface#:

Quad:

PIN: 146568

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding/Hunting Cabin**Street or 911 Address: **155 Tall Timber Lane**Location Description: **off Wold Island Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1672 is a 20th century hunting cabin located at north of 155 Tall Timber Lane, Reidsville, NC 27320. The parcel number is 146568 (Rockingham County, NC WebGIS 2018). The one-story dwelling was constructed c. 1970. The rectangular plan cabin has a shed roof, exterior vertical board siding (rear is board and batten), and a wood pier foundation. Windows are covered with wood board panels. The façade features a shed porch and vertical board door, above which is posted a sign bearing the words "Town Creek Hunt Club."

NRHP Assessment. Architectural resource RK1672 is a c. 1970 cabin that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1672 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1673**

Blockface#:

Quad:

PIN: 146398

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **154 Tall Timber Lane**Location Description: **Tall Timber Ln.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1673 is a 20th century dwelling located at 154 Tall Timber Lane, Reidsville, NC 27320. The parcel number is 146398. The one-story Ranch style dwelling was constructed in 1947 (Rockingham County, NC WebGIS 2018). The L-plan dwelling has a gabled roof, exterior smooth concrete walls and a concrete foundation. Windows are original horizontal sash design. The façade features a picture style window offset by an original three-light door. The area framing the picture style window and the gable fields are clad with board and batten, which is original.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1673 was limited to the public right-of-way along Tall Timber Lane.

NRHP Assessment. Architectural resource RK1673 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1673 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1674**

Blockface#:

Quad:

PIN: 146344

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **2141 Moir Mill Road**Location Description: **Moir Mill Rd.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1674 is an abandoned farmstead located south of 2141 Moir Mill Road, Reidsville, NC 27320 . The parcel number is 146344. The buildings are largely obscured by foliage and are in poor condition. The farmstead buildings include a c. 1900 1-story, end gable plan log dwelling with tarpaper siding and a metal clad roof, a partially collapsed log tobacco barn with v-notching and a vertical board barn with a metal gabled roof.

NRHP Assessment. Architectural resource RK1674 is an abandoned farmstead with buildings that appear to date from c. 1890-1900. Due to the deterioration of the buildings, resulting in the collapse of outbuildings, the property does not retain its architectural integrity. Based on the lack of architectural distinction and inability to associate the property and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1674 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1675**

Blockface#:

Quad:

PIN: 146367

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1979 Moir Mill Road**Location Description: **Moir Mill Rd.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdat:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEDate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1675 is a 20th century dwelling located at 1979 Moir Mill Road, Reidsville, NC 27320. The parcel number is 146367. The two-story dwelling was constructed in 1910 and altered in 1977 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior vinyl siding and a concrete foundation. Windows are replacement (lower story) and original two-light (upper story). The façade features a shed porch (not original). The primary door has been replaced. An open two-story carport wing on the west end of the dwelling is not original. The rear shed one-story wing appears original. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1675 was limited to the public right-of-way along Moir Mill Road.

NRHP Assessment. Architectural resource RK1675 is an altered dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and loss of architectural integrity due to late 20th century modifications, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1675 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1676**

Blockface#:

Quad:

PIN: 146025

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding**Street or 911 Address: **980 Hamlet Road**Location Description: **off Hamlet Rd.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1676 is a c. 1900 log tobacco barn located at 980 Hamlet Road, Reidsville, NC 27320. The parcel number is 146025 (Rockingham County, NC WebGIS 2018). The log outbuilding has a gabled metal clad roof, exterior v-noticed log walls, and vertical board filled gable fields. Asphalt paper is partially intact on the façade, which retains an original solid vertical board door. The outbuilding is believed to be associated with the Totten Family.

NRHP Assessment. Architectural resource RK1676 is a log tobacco barn that appears to be a remnant of a turn-of-the-century farmstead. Log construction is not uncommon in the project area and this example, by itself, does not exhibit unique architectural or agricultural significance. Based on the inability to associate the barn and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1676 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1677**

Blockface#:

Quad:

PIN: 155981

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **942 Hamlet Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLDate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1677 is a 20th century dwelling located at 942 Hamlet Road, Reidsville, NC 27320. The parcel number is 155981. The one-story Ranch style dwelling was constructed in 1969 (Rockingham County, NC WebGIS 2018). The L-plan dwelling has a gabled roof, exterior brick walls and a brick foundation.

Windows are original horizontal sash design. The façade features a centered paneled door. At the southwest corner is a rear original open carport. A prefabricated c. 1980 garage is situated west of the dwelling. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1677 was limited to the public right-of-way along Hamlet Road.

NRHP Assessment. Architectural resource RK1677 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1677 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1678**

Blockface#:

Quad:

PIN: 166622

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **612 Hamlet Road**Location Description: **Hamlet Rd.**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1678 is a c. 1900 log dwelling located on Hamlet Road northwest of 612 Hamlet Road, Reidsville, NC 27320. The parcel number is 166622 (Rockingham County, NC WebGIS 2018). The plan dwelling has a gabled metal clad roof, exterior log walls partially clad with what appears to be asbestos siding and a pier stone foundation. Windows are largely missing though evidence of multi-sash double-hung design is retained in some examples. At the north (side) elevation is a stacked stone chimney. There are entry bays on the façade, indicating a two-pen interior plan. One bay retains what appears to be an original wood door. The dwelling is abandoned and deteriorated with loss of windows, doors, siding and indications of structural instability.

NRHP Assessment. Architectural resource RK1678 is a turn of century log dwelling that suffers loss of integrity due to neglect resulting in significant deterioration. Log construction is not uncommon in the project area and this example does not indicate unique architectural significance in relation to workmanship and materials. Based on the dwelling's loss of architectural integrity, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1678 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1679**

Blockface#:

Quad:

PIN: 177121

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1289 Mt. Carmel Church Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1679 is a c. 1900 log tobacco barn located at 1289 Mt. Carmel Church Road, Reidsville, NC 27320. The parcel number is 177121 (Rockingham County, NC WebGIS 2018). The log outbuilding has a gabled metal clad roof, exterior v-notched log walls, and vertical board filled gable fields.

NRHP Assessment. Architectural resource RK1679 is a log tobacco barn that appears to be a remnant of a turn-of-the century farmstead. Log construction is not uncommon in the project area and this example, by itself, does not exhibit unique architectural or agricultural significance. Based on the inability to associate the barn and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1679 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1680**

Blockface#:

Quad:

PIN: 156092

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Hunting Cabin**Street or 911 Address: **1761 Wolf Island Road**Location Description: **Off Wolf Island Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1680 is a 20th century hunting cabin located on the parcel addressed as 1761 Wolf Island Road, Reidsville, NC 27320. The parcel number is 156092 (Rockingham County, NC WebGIS 2018). The one-story cabin was constructed c. 1970. The rectangular plan cabin has a shed roof, exterior vertical board siding (rear is board and batten), and a wood pier foundation. Windows are covered with wood board panels. The façade features a shed porch and vertical board door, above which is posted a sign bearing the words "Town Creek Hunt Club."

NRHP Assessment. Architectural resource RK1680 is a c. 1970 cabin that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1680 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1681**

Blockface#:

Quad:

PIN: 155980

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**

Street or 911 Address:

Location Description: **Off Hamlet Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**☐ DOE DOEDate:DOE Type: Local Status: **None** Ownership:**Principal Resource** Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**Major Theme: 2nd Theme:
Group Association: Religious Affiliation
Historic Function:**Written Summary:**

Site Description. RK1681 is a collapsed log tobacco barn off Hamlet Road, Reidsville, NC 27320. The parcel number is 155980 (Rockingham County, NC WebGIS 2018). The barn was constructed c. 1920, based on stylistic evidence and the date of area farmsteads. The barn has a metal clad gabled roof and exterior log v-notched walls.

NRHP Assessment. Architectural resource RK1681 is a collapsed log tobacco barn that does not exhibit distinctive characteristics of its architectural style or workmanship. Furthermore, the building is in ruins, which compromises its architectural integrity. Based on the lack of architectural merit, as well the inability to associate the barn and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1681 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1682**

Blockface#:

Quad:

PIN: 177122 and 156040

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House and Outbuildings**Street or 911 Address: **1830 Wolf Island Road**Location Description: **off Wolf Island Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1830 Wolf Island Road, Reidsville, NC 27320 and encompassing two parcels (177122 and 156040), newly-recorded architectural resource RK1682 is an inactive farmstead (Rockingham County, NC WebGIS 2018). The property includes a combined 91.79 acres and is anchored by a side-gabled roof house with a reported construction date of 1932 (Rockingham County, NC WebGIS 2018).

RK1682 is a one-and-one-half-story dwelling that features a roof covered with asphalt shingles, wood frame with a plywood siding exterior, a concrete block foundation, and double hung horizontal 2/2 wood sash windows. A partial-width porch with a concrete deck provides access to the main entrance. The porch is shielded by a hipped roof that is supported by four decorative metal posts. The house appears to include a shed-roof addition that is attached to the west (rear) elevation.

NRHP Assessment. Architectural resource RK1682 is an inactive farmstead that is anchored by a side-gabled roof residence that was constructed in 1932. The property does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). In addition, the farm no longer conveys its original ca. 1932 appearance, the modern alterations made to the principal farmhouse and the collapse of two associated log tobacco barns. Due to the lack of historic and architectural significance, it is the opinion of TRC that architectural resource RK1682 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Tobacco Barn	Log			
A mid-twentieth century log tobacco barn. The structure features a gable roof covered with standing seam metal, an exterior clad with metal siding, and a fieldstone foundation				
Tobacco Barn	Log			
The collapsed remains of two log tobacco barns that appears to date to the early twentieth century				
Tobacco Barn	Log			
A ca. 1932 log tobacco barn. The structure features a gable roof covered with standing seam metal, and exterior partly clad with exterior metal siding, exposed hand-hewn logs joined together by square notching, and a fieldstone foundation. Attached to the south elevation is an open shed-roof extension				
Tobacco Barn	Log	1932		
A ca. 1932 log tobacco barn. The structure features a gable-front roof covered with standing seam metal, and exterior partly clad with exterior metal siding, exposed hand-hewn logs joined together by square notching, and a fieldstone foundation. A door opening is located on the south elevation				
Tobacco Barn	Log	1932		
A ca. 1932 log tobacco barn. The structure features a side-gabled roof covered with standing seam metal, and exterior partly clad with exterior metal siding, exposed hand-hewn logs joined together by square notching, and a fieldstone foundation. Door openings are located on the east and west elevations				
Well		1932		
A ca. 1932 well. The structure appears to be lined with brick and is covered by a plywood board attached to a wood-frame				
Tobacco Barn	Log	1960		
A ca. 1960 log tobacco barn (Rockingham County, NC WebGIS 2018). The wood-frame structure features a gable roof covered with standing seam metal, and exterior clad with tar paper and asphalt shingles, and a concrete block foundation. Attached to the west elevation is an open shed-roof extension				

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1683**

Blockface#:

Quad:

PIN: 156041

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1918 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1683 is a 20th century dwelling located at 1918 Wolf Island Road, Reidsville, NC 27320. The parcel number is 156041. The one-story Ranch style dwelling was constructed in 1965 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior brick walls and a concrete foundation. Windows are original multi-sash double hung design and the original door is offset by a three-light sidelight. The façade features a shed corner porch shielded by the front cross-gabled wing. The south elevation retains an original attached carport. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1683 was limited to the public right-of-way along Wolf Island Road.

NRHP Assessment. Architectural resource RK1683 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1683 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1684**

Blockface#:

Quad:

PIN: 173662

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1828 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1684 is a 20th century dwelling with farm-related outbuildings located at 1828 Wolf Island Road, Reidsville, NC 27320. The parcel number is 173662. The property includes a 1.5-story Bungalow constructed in 1928 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior vinyl siding and a brick foundation. Windows are replacement one-over-one and original vertical sash casement design. The façade features a full shed porch supported by replacement vinyl columns on original brick piers.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1684 was limited to the public right-of-way along Wolf Island Road.

NRHP Assessment. Architectural resource RK1684 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1684 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
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Tobacco Barn

Tobacco barn clad with metal siding with a metal clad gabled roof and concrete foundation

Tuesday, November 20, 2018

Barn (general)

Frame

Vertical board two-story barn with a metal clad gabled roof

Garage

Metal

A corrugated metal garage with shed open wing

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1685**

Blockface#:

Quad:

PIN: 156043

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1841 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1685 is a 20th century dwelling with a log outbuilding located at 1841 Wolf Island Road, Reidsville, NC 27320. The parcel number is 156043. The dwelling was constructed in 1930 (Rockingham County, NC WebGIS 2018). The 1.5-story dwelling has a gabled roof, exterior vinyl siding and a concrete block foundation. Windows are replacement one-over-one. The dwelling has a primary gabled porch (altered or replaced). At the north elevation is an exterior end brick chimney. The dwelling has a one-story gabled wing (east elevation) and shed wing (south elevation).

NRHP Assessment. Architectural resource RK1685 includes an altered dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and loss of architectural integrity (due to vinyl siding, replacement doors, windows and porch); as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1685 is not eligible for the NRHP.

Outbuildings/Features

FeatureType

Material

CircaDate Condition

Contrib

Tobacco Barn

Log

Tobacco barn with v-notched log walls, an original wood panel door and a shed open wing.

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1686**

Blockface#:

Quad:

PIN: 156038

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House and Outbuildings**Street or 911 Address: **1811 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1686 is a 20th century dwelling with agricultural outbuildings located at 1811 Wolf Island Road, Reidsville, NC 27320. The parcel number is 156038. The dwelling was constructed in 1935 (Rockingham County, NC WebGIS 2018). The 1.0-story dwelling has a gabled roof, exterior vinyl siding and a concrete foundation. Windows are replacement six-over-six. The dwelling has a primary gabled shed porch with tapered posts on brick piers (original). Within the porch bay is an original multi-light paneled door. The dwelling has a rear one-story gabled wing. Also on the property is a frame barn and two log tobacco barns.

NRHP Assessment. Architectural resource RK1686 includes an altered dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit and loss of architectural integrity (due to vinyl siding, replacement doors, windows and porch); as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1686 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1687**

Blockface#:

Quad:

PIN: 156096

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1881 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1687 is a 20th century dwelling located at 1881 Wolf Island Road, Reidsville, NC 27320. The parcel number is 156096. The one-story Minimal Traditional style dwelling was constructed in 1950 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior asbestos shingle siding and a concrete foundation. Windows are original six-over-six and replacement one-over-one design. The façade features a central gabled porch with paired columns. Within the porch bay, the primary entry holds an original multi-light door. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1687 was limited to the public right-of-way along Wolf Island Road.

NRHP Assessment. Architectural resource RK1687 is a Minimal Traditional style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1687 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1688**

Blockface#:

Quad:

PIN: 156092

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1761 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1761 Wolf Island Road, Reidsville 27320, on parcel 156092, newly-recorded architectural resource RK1688 has a reported construction date of 1950 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the project, TRC's evaluation of the property was limited to the public right-of-way along Wolf Island Road.

RK1688 is a one-and-one-half-story Minimal Traditional style dwelling that features a side-gabled roof covered with asphalt shingles, wood frame with a vinyl siding exterior, a raised brick foundation, and double hung 8/8 wood sash windows. The façade features a central entry bay and brick stoop. Connected to the north elevation is side-gable wing and a brick chimney.

NRHP Assessment. Architectural resource RK1688 does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1688 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Privy	Frame	1960	Good	

A ca. 1960 privy. The wood-frame structure features a shed roof covered with corrugated metal and an exterior clad with vertical wood boards. A wood batten door on the west elevation provides access to the structure

Tuesday, November 20, 2018

Cabin

Frame

1960

Good

A ca. 1960 one-story cabin. The wood-frame building features a side-gabled roof covered with standing seam metal, an exterior clad with wood drop siding, and a concrete block pier foundation. Windows are covered with wood board panels. A full-width porch containing a wood deck provides access to the main entrance. The porch is shielded by a shed roof that is supported by three square wood posts

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1689**

Blockface#:

Quad:

PIN: 156183

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding**Street or 911 Address: **1000 Crutchfield Road**Location Description: **off Crutchfield Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1689 is a log tobacco barn located at 1000 Crutchfield Road, Reidsville, NC 27320. The parcel number is 156183 (Rockingham County, NC WebGIS 2018). The barn was constructed c. 1920, based on stylistic evidence and the date of area farmsteads. The barn has a metal clad gabled roof, exterior log v-notched walls and a stone foundation. Doors are missing and the building is leaning due to instability/neglect.

NRHP Assessment. Architectural resource RK1689 is a log tobacco barn that does not exhibit distinctive characteristics of its architectural style or workmanship. The barn is one of many examples in the project area. Based on the lack of architectural merit, associated agricultural buildings and/or a dwelling, this barn, by itself, fails to exemplify the historical associations of the property. Additionally, research failed to associate the barn and/or its original owner(s) with an important historical event or series of events. Based on this information, it is the opinion of TRC that architectural resource RK1689 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1690**

Blockface#:

Quad:

PIN: 156137

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1380 Wolf Island Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1690 is a 20th century dwelling located at 1390 Wolf Island Road, Reidsville, NC 27320. The parcel number is 156137. The one-story end gable plan dwelling was constructed in 1950 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior vinyl shingle siding and a concrete block foundation. Windows are one-over-one. The façade has a picture style window and contemporary frame shed porch/ramp.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1690 was limited to the public right-of-way along Wolf Island Road.

NRHP Assessment. Architectural resource RK1690 is a mid-twentieth century dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1690 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1691**

Blockface#:

Quad:

PIN: 155727

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **829 Crutchfield Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1691 is a 20th century dwelling located at 829 Crutchfield Road, Reidsville, NC 27320. The parcel number is 155727. The one-story Ranch style dwelling was constructed in 1969 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior brick walls and a concrete foundation. Windows are original horizontal sash design. The façade features a picture style window offset by an original paneled door.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1691 was limited to the public right-of-way along Crutchfield Road.

NRHP Assessment. Architectural resource RK1691 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1691 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1693**

Blockface#:

Quad:

PIN: 158762

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6052 US 29**Location Description: **off Business Route US 29**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1693 is a 20th century dwelling located at 6052 U.S. 29 - Business Route, Reidsville, NC 27320. The parcel number is 158762. The one-story saddlebag plan dwelling was constructed in 1925 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof clad with standing seam metal, exterior vinyl siding and a concrete foundation. Windows are original four-over-one. The façade features a ¾-width shed roof porch. Within the porch bay are two entries – one holds an original three-light paneled door (south) and the other (north) a replacement paneled door. At the northeast elevation is a one-story hipped wing. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1693 was limited to the public right-of-way along U.S. 29-Business Route.

NRHP Assessment. Architectural resource RK1693 is an early 20th century dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1693 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1694**

Blockface#:

Quad:

PIN: 158767

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6014 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1694 is a 20th century dwelling located at 6014 U.S. Highway 29-Business Route, Reidsville, NC 27320. The parcel number is 158767. The one-story Ranch style dwelling was constructed in 1963 (Rockingham County, NC WebGIS 2018). The dwelling has a hipped roof, exterior brick walls and a concrete foundation. Windows are original four-over-four design. The façade features a picture style window offset by an original paneled door. At the northeast end of the dwelling is an original carport with brick supports and a low brick wall. There is a concrete block garage/outbuilding situated north of the dwelling c. 1950. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1694 was limited to the public right-of-way along U.S. Highway 29-Business Route.

NRHP Assessment. Architectural resource RK1694 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1694 is not eligible for the NRHP

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1695**

Blockface#:

Quad:

PIN: 158761

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6028 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1695 is a 20th century dwelling located at 6028 U.S. Highway 29-Business Route, Reidsville, NC 27320. The parcel number is 158761. The one-story Ranch style dwelling was constructed in 1962 (Rockingham County, NC WebGIS 2018). The dwelling has a hipped roof, exterior brick walls and a brick covered foundation. Windows are replacement six -over-one, six-over-six and one-over-one design. The façade features a recessed porch with a picture style (single fixed light) window. The south end of the dwelling features an original carport. Southeast and southwest walls encompassing the carport are clad with stone veneer. Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1695 was limited to the public right-of-way along U.S. Highway 29-Business Route.

NRHP Assessment. Architectural resource RK1695 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1695 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1696**

Blockface#:

Quad:

PIN: 158763

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6052 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1696 is a 20th century dwelling located at 6050 U.S. Highway 29-Business Route, Reidsville, NC 27320. The parcel number is 158763. The one-story Ranch style dwelling was constructed in 1962 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior brick walls and a brick covered foundation. Windows are original horizontal sash design. The façade features a picture style window offset by an original horizontal light door.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1696 was limited to the public right-of-way along U.S. Highway 29-Business Route.

NRHP Assessment. Architectural resource RK1696 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1696 is not eligible for the NRHP.

Outbuildings/Features

FeatureType

Material

CircaDate Condition

Contrib

Outbuilding - undetermined

Southwest of the dwelling are vertical board and concrete block outbuildings

Carport

The northeast end of the dwelling features an original carport with original wrought iron supports

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1697**

Blockface#:

Quad:

PIN: 158764

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6064 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. RK1697 is a 20th century dwelling located at 6064 U.S. Highway 29-Business Route, Reidsville, NC 27320. The parcel number is 158764. The one-story Ranch style dwelling was constructed in 1964 (Rockingham County, NC WebGIS 2018). The dwelling has a gabled roof, exterior brick walls and a brick covered foundation. Windows are original horizontal sash design. The façade features a central gabled porch with turned posts and a picture style window. Within the porch, the entry bay holds a replacement door.

Due to lack of landowner permission to access properties that are not directly affected by the project, photographic coverage of architectural resource RK1697 was limited to the public right-of-way along U.S. Highway 29-Business Route.

NRHP Assessment. Architectural resource RK1697 is a Ranch style dwelling that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1697 is not eligible for the NRHP.

Outbuildings/Features

FeatureType

Material

CircaDate Condition

Contrib

Secondary Dwelling

Frame

North of the dwelling is a board-and-batten gable-front plan building that appears to be used for residential

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purposes

Carport

Metal

Southwest of the dwelling is a contemporary carport

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1698**

Blockface#:

Quad:

PIN: 158765

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6076 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 6076 U.S. 29 Business Highway (Parcel 158765), Ruffin, NC, and situated within the H-650 pipeline centerline, newly-recorded architectural resource RK1698 is a Minimal Traditional house that was built in 1952 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along U.S. 29 Business Highway. This one-story, wood-frame dwelling has a side-gable roof clad in asphalt shingles, aluminum siding, a concrete block foundation, a rear bank basement level, and an L-shaped plan. The south façade has an offset front entrance with a replacement paneled door with a fanlight that is covered by a central, front-gabled porch. At the time of survey the porch posts and deck were being replaced with modern materials. The entrance is flanked on either side by single, six-over-six wood sash windows with faux shutters. The fenestration throughout the remainder of the house's main level features six-over-six, wood sash windows, which are covered by aluminum awnings on the south façade and east and west elevations. There are multi-light awning windows on the east elevation of the basement level. The house has a single interior brick chimney. No additional details of the north (rear) elevation could not be observed at the time of the survey due to limited access. In the rear (north) yard is a one-story, two-bay garage that was built in 1974 according to county tax records. The garage has a front-gable roof with exposed rafter tails, and the roof is clad in metal. The garage has aluminum siding and concrete block foundation.

NRHP Assessment. Architectural resource RK1698 is a common Minimal Traditional style house that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural significance, as well as the inability to associate the house and/or its original owner(s) with an

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important historic event or series of events, it is the opinion of TRC that architectural resource RK1698 is not eligible for the NRHP under Criteria A, B, or C.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1699**

Blockface#:

Quad:

PIN: 158766

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6084 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 6084 U.S. 29 Business Highway (Parcel 158766), Ruffin, NC, and situated within the H-650 pipeline centerline, newly-recorded architectural resource RK1699 is a Minimal Traditional house that was built in 1947 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along U.S. 29 Business Highway. This one-story, wood-frame dwelling faces south toward the road and has a front-gable roof clad in asphalt shingles with a lower side gable wing, a brick veneer exterior, and a foundation clad in brick veneer. The recessed front porch has a front-gable roof supported by decorative iron posts that covers the main entrance and a one-over-one vinyl sash window. The front-gable portion of the house features a louvered vent at the gable peak and a Chicago-type picture window. There are one-over-one vinyl sash windows throughout the rest of the house. There is an interior central brick chimney. On the north (rear) elevation is an addition that is not visible from the public right-of-way that county tax records indicate was built in 1967, and behind that a detached garage that tax records indicate was built in 1973.

NRHP Assessment. Architectural resource RK1699 is a common Minimal Traditional style house that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural significance, as well as the inability to associate the house and/or its original owner(s) with an important historic event or series of events, it is the opinion of TRC that architectural resource RK1699 is not eligible for the NRHP under Criteria A, B, or C.

Outbuildings/Features

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Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1700**

Blockface#:

Quad:

PIN: 179804

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **6198 Business US 29**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 6198 U.S. 29 Business Highway (Parcel 179804), Ruffin, NC, and situated approximately 1,200 feet east of the H-650 pipeline centerline, newly-recorded architectural resource RK1700 is a farmstead containing two dwellings and three outbuildings. The first dwelling is an abandoned one-story Bungalow with Craftsman details that was built in 1930 according to county tax records (Rockingham County, NC WebGIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way along U.S. 29 Business Highway. Located approximately 45 feet northwest of the highway, this house has a side-gable roof clad in asphalt shingles and exposed rafter tails, drop lap wood siding, and a brick foundation. Across the façade is a full-length front porch with a front-gable roof supported by four wood battered columns set on brick and concrete piers. There is a pointed arch louvered vent in the gable end of the porch. The porch shelters a three-bay façade composed of a central entrance with a nine-light paneled door flanked by two pairs of six-over-six windows that are boarded over. On the east elevation is a shed-roof carport supported by metal posts. The house has a single interior central brick chimney.

The second dwelling on this parcel is located approximately 180 feet northwest of the first (Figure B). It is a circa-1930 one-story house that faces west toward a paved driveway and has a low-pitched hip roof clad in standing-seam metal. It has a three-bay façade with a central entrance flanked by six-over-six windows of a sash type that could not be determined. The house has a T-shaped plan and is clad in vinyl siding, and it has a brick foundation. The central entrance is covered by a partial-width front porch with a hip roof clad in standing-seam metal that is supported by square wood posts.

There are three outbuildings at this property, including a collapsed log tobacco barn that is overgrown with vegetation to the southwest of the house; a wood-frame shed with a front-gable metal roof and metal siding to the south of the house; and a modern open-sided metal carport to the immediate west of the house that is obscured by trees (not visible).

NRHP Assessment. Architectural resource RK1700 is a typical early-twentieth century farmstead that does not exhibit distinctive characteristics of architectural style or workmanship. The main dwelling on the property is a common 1930s-era Bungalow that does not possess individual architectural significance. Based on the lack of architectural significance, as well as the inability to associate the house and/or its original owner(s) with an important historic event or series of events, it is the opinion of TRC that architectural resource RK1700 is not eligible for the NRHP under Criteria A, B, or C.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1701**

Blockface#:

Quad:

PIN: 158797

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **6193 Business US 29**Location Description: **off Bus Rte US 29**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Located at 6193 U.S. 29 Business Highway (Parcel 158797), Ruffin, NC, and situated approximately 1,200 feet east of the H-650 pipeline centerline, newly-recorded architectural resource RK1701 is an abandoned and collapsing wood-frame vernacular house built in 1906 according to county tax records (Rockingham County, NC WebGIS 2018). Due to access limitations, TRC's evaluation of the property was limited to the public right-of-way from the access drive that extends south from U.S. 29 Business Highway and across the railroad line that parallels the highway. This one-story dwelling faces north toward the highway and has a side-gable roof clad in standing-seam metal. It has drop lap siding, and the foundation and full extent of the house are not visible due to overgrown vegetation and debris. The north façade has an offset front entrance with a wood paneled door and two six-over-six wood sash windows. There are exposed rafter tails and corrugated metal sheeting in the exposed eastern gable end of the house, which also has a wraparound front porch with a metal shed roof supported by square wood posts. The house has rear ell portion with a standing-seam metal roof. Across the access drive to the east is a wood frame tobacco barn that was built in 1940 according to county tax records. It has a hip roof clad in metal, both vertical and horizontal plank siding, and a stone foundation.

NRHP Assessment. Architectural resource RK1701 is a common vernacular house type that does not exhibit distinctive characteristics of its architectural style or workmanship. Based on the lack of architectural significance, as well as the inability to associate the house and/or its original owner(s) with an important historic event or series of events, it is the opinion of TRC that architectural resource RK1701 is not eligible for the NRHP under Criteria A, B, or C.

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Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1702**

Blockface#:

Quad:

PIN: 178980

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **6123 Business US 29**Location Description: **off Narrow Guage Rd**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Newly recorded resource RK1702 is located at 6123 U.S. 29 Business Highway (Parcel 178980), Ruffin, NC, and situated on the south side of the highway between it and the line of the Southern Railway. This resource is an abandoned commercial building with no architectural style that was built in at three phases, the first of which was built in 1932 according to county tax records (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along the highway. Details of the building's exterior materials and arrangement are obscured by overgrown vegetation, and the window sashes are missing throughout the building. It is a two-story building with three primary sections, all of which have side-gable roofs. The earliest portion is the two-story central section with a three-bay façade; drop lap siding under asbestos shingles; and a side-gable roof clad in standing-seam metal that has two front-gable dormers. On the east end of this central section is a two-story, single-bay addition with a shed-roof dormer. On the west end of the building is a two-story portion with concrete block masonry construction, four bays, and the window openings have brick lintels and sills.

NRHP Assessment. Architectural resource RK1702 is an early- to-mid twentieth century commercial building that does not exhibit distinctive characteristics of architectural style or workmanship. Additionally, the building's architectural integrity has been compromised neglect and deterioration that resulted in the loss of original materials such as all of its windows. Based on the lack of architectural merit, as well as the inability to associate the house and/or its original owner(s) with an important historical event or series of events, it is the opinion of TRC that architectural resource RK1702 not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1704**

Blockface#:

Quad:

PIN: 158759

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **American Tobacco Co. Building**Street or 911 Address: **125 Narrow Gauge Road**Location Description: **off Crutchfield Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 125 Narrow Gauge Road (Parcel 158759) in Reidsville is newly recorded architectural resource RK1704, the 90-acre abandoned American Tobacco Company manufacturing plant built in stages between the 1920s and the 1960s according to county tax records (Rockingham County, NC WebGIS 2018). TRC's evaluation of the property was limited to the public right-of-way along Narrow Gauge Road due to the property being fenced off and closed. Additional information about the property and its layout was gathered through aerial imagery. The property contains a brick manufacturing plant building and approximately 12 remaining tobacco warehouses. Historic aerial imagery from Google Earth shows that the plant contained approximately 60 warehouses in 1993. Since that time the plant has closed and most of the warehouses and other support buildings have been demolished.

Located on the south side of the railroad line on its north side, the main manufacturing plant building is a four-stories tall with an L-shaped plan, a flat roof, and a common bond brick exterior. A horizontal stone belt course pierced with louvered windows runs around the building and divides its top and bottom halves. A company sign attached to the north and west elevations of the building states the company's name "The American Tobacco Company" in cursive text. There are loading docks on the north elevation of the building and a one-story metal warehouse attached to its west elevation. There is a water tower on the roof. The surrounding warehouses that remain extant on the property are in various states of disrepair and collapse. They feature both steel frame and masonry construction with low-pitched gable roofs, metal exteriors, rectangular plans, concrete slab foundations, and large freight bay doors. There is a second water tower at the northwest corner of the parcel.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1705**

Blockface#:

Quad:

PIN: 155965

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **146 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 146 Narrow Gauge Road (Parcel 155965) in Reidsville, newly-recorded architectural resource RK1705 has a reported construction date of 1949 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Main Street.

RK1705 is a one story Minimal Traditional type dwelling with a side-gable roof, vinyl siding, a continuous concrete block foundation. It has six-over-six replacement vinyl sash windows throughout. An offset stoop with brick and concrete foundation provides access to the main entrance. Attached to the north elevation is a gable-roof stoop supported by wood posts sheltering a side entrance. There is a one-story, single-bay, wood frame garage behind the southwest corner of the house.

NRHP Assessment. Architectural resource RK1705 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1705 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1706**

Blockface#:

Quad:

PIN: 155967

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **156 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Located at 156 Narrow Gauge Road (Parcel 155967) in Reidsville, newly-recorded architectural resource RK1706 has a reported construction date of 1947 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Main Street. RK1706 is a one story Minimal Traditional dwelling with a side-gable roof, asbestos shingle siding, and a continuous concrete block foundation. It has six-over-six wood sash windows throughout. Access to the central front entrance is via a partial-width front porch that has a front-gable roof supported by wood posts. There are two interior brick chimneys. The house has two modern storage shed outbuildings in the rear yard.

NRHP Assessment. Architectural resource RK17056 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1706 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1707**

Blockface#:

Quad:

PIN: 155966

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **168 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 168 Narrow Gauge Road (Parcel 155966) in Reidsville, newly-recorded architectural resource RK1707 has a reported construction date of 1926 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Main Street.

RK1707 is a one-story Bungalow dwelling with a hip roof, vinyl siding, and a continuous brick foundation. The hip roof dormer on the façade has one original five-light vertical pane fixed window paired with a replacement louvered vent. The house has a partial-width front porch with a wood floor, brick pier foundation, and a shed roof supported by battered wood columns set on brick piers. The central front entrance has a nine-light glazed door flanked by five-over-one vertical light sash windows with faux shutters. There are two interior brick chimneys. There is a modern metal carport on the northwest elevation adjacent to a modern, single-bay detached garage.

NRHP Assessment. Architectural resource RK1707 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1707 is not eligible for listing in the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1708**

Blockface#:

Quad:

PIN: 158464

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **531 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 531 Narrow Gauge Road (Parcel 158464) in Reidsville, newly-recorded architectural resource RK1708 has a reported construction date of 1929 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Main Street.

RK1708 is a one-story Bungalow dwelling with a side-gable roof, vinyl siding, and a continuous brick foundation. The gable roof dormer on the façade has two original five-light vertical pane fixed windows. The house has a full-length front porch with a wood floor, continuous brick foundation, and a shed roof supported by battered wood columns set on brick piers. The central front entrance is flanked by pairs of four-over-one vertical light sash windows with faux shutters. The house has an exterior end brick chimney on the east elevation. There are three modern storage shed outbuildings in the rear (north) yard.

NRHP Assessment. Architectural resource RK1708 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1708 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1710**

Blockface#:

Quad:

PIN: 158478

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **602 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 602 Narrow Gauge Road (Parcel 158478) in Reidsville, newly-recorded architectural resource RK1710 was built circa 1945 and is currently used as the parsonage dwelling for the adjacent Greenwood Presbyterian Church (RK1712) (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1710 was limited to the public right-of-way along Narrow Gauge Road.

RK1710 is a one-story Minimal Traditional house with a side-gable roof and brick exterior. The four-bay façade features a front-gable portion that contains an offset entrance sheltered by a partial-width, partly-recessed front porch. The windows throughout the house are six-over-six vinyl sash replacements. It has an interior central brick chimney. There is a modern metal carport in the rear.

NRHP Assessment. Architectural resource RK1710 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1710 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1711**

Blockface#:

Quad:

PIN: 158688

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **582 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 582 Narrow Gauge Road (Parcel 158688) in Reidsville, newly-recorded architectural resource RK1711 was built in 1950 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1711 was limited to the public right-of-way along Narrow Gauge Road.

RK1710 is a one-story Minimal Traditional house with a side-gable roof and brick exterior. The four-bay façade features a front-gable portion that contains an offset entrance sheltered by a metal awning with a brick stoop. The windows throughout the house are one-over-one wood sash and covered by metal awnings. It has an interior central brick chimney.

NRHP Assessment. Architectural resource RK1711 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1711 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1712**

Blockface#:

Quad:

PIN: 158478

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Greenwood Presbyterian Church**Street or 911 Address: **618 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 618 Narrow Gauge Road (Parcel 158478) in Reidsville, newly-recorded architectural resource RK1712 is the Greenwood Presbyterian Church and was built in 1960 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1712 was limited to the public right-of-way along Narrow Gauge Road.

RK1712 is a one-story church with a front-gable roof, brick exterior, and rear side-gable wings that give the building a T-shaped plan. The church has a central entrance, a wood frame steeple, and stained glass windows. To the west of the church is newly-recorded resource RK1712, which is the church's parsonage.

NRHP Assessment. Architectural resource RK1712 is a typical example of a mid-twentieth century church. In accordance with NRHP Criteria Consideration A, religious buildings are normally not eligible for the NRHP unless they derive their primary significance from architectural or artistic distinction or are considered to be of historical importance. The property cannot be associated with important historical event(s) or person(s). Due to lack of the historic and architectural significance it is the opinion of TRC that architectural resource RK1712 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1713**

Blockface#:

Quad:

PIN: 158479

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **630 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 630 Narrow Gauge Road (Parcel 158479) in Reidsville, newly-recorded architectural resource RK1713 was built in 1927 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1713 was limited to the public right-of-way along Narrow Gauge Road.

RK1713 is a one-story Bungalow house with a side-gable roof, a front-gable dormer with enclosed window, aluminum siding, and a rear shed-roof enclosed porch addition. The three-bay façade features a full-length porch with a shed roof supported by battered columns on brick piers and wood floor. The house has nine-over-nine vinyl sash replacement windows with faux shutters. The enclosed dormer window has a louvered vent.

NRHP Assessment. Architectural resource RK1713 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1713 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1714**

Blockface#:

Quad:

PIN: 158479

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **710 Narrow Gauge Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 710 Narrow Gauge Road (Parcel 158479) in Reidsville, newly-recorded architectural resource RK1714 was built in 1970 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1714 was limited to the public right-of-way along Narrow Gauge Road.

RK1714 is a one-story Ranch house with a side-gable roof, a brick exterior, and a rear basement level. The façade was obscured by vegetation during survey, but the six-over-six vinyl sash windows were visible.

NRHP Assessment. Architectural resource RK1714 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1714 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1715**

Blockface#:

Quad:

PIN: 158673

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **125 Love Drive**Location Description: **Narrow Gauge Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 125 Loe Drive (Parcel 158673) in Reidsville, newly-recorded architectural resource RK1715 was built in 1959 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1715 was limited to the public right-of-way along Narrow Gauge Road. RK1715 is a one-story Ranch house with a gable-on-hip roof, a brick exterior, and an integrated carport on the east elevation. It has an interior central brick chimney. The central entrance is approached via a brick stoop that is not covered. The façade features a picture window composed of three one-over-one vinyl sash windows, as well as a single one-over-one and pair of one-over-one vinyl windows.

NRHP Assessment. Architectural resource RK1715 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1715 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1716**

Blockface#:

Quad:

PIN: 178605

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **113 Love Road**Location Description: **Narrow Gauge Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 113 Loe Drive (Parcel 178605) in Reidsville, newly-recorded architectural resource RK1716 was built in 1964 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1716 was limited to the public right-of-way along Narrow Gauge Road.

RK1716 is a one-story Ranch house with a front-gable roof and rear side-gable ell. It has a brick exterior. It has one-over-one and two-over-one horizontal sash wood windows. The offset front entrance is sheltered by a partial-width front porch with a concrete floor, a shed roof, and fluted columns. There is an integrated garage on the east elevation.

NRHP Assessment. Architectural resource RK1716 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1716 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1717**

Blockface#:

Quad:

PIN: 158681

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **157 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 157 Chicken Farm Road (Parcel 158681) in Reidsville, newly-recorded architectural resource RK1717 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1717 was limited to the public right-of-way along Narrow Gauge Road.

RK1717 is a one-story vernacular house with a front-gable roof with exposed rafter ends, vinyl siding, a parged foundation, and a rectangular plan. The central entrance on the northeast façade is covered by a partial-width porch with a shed-roof and square aluminum-clad posts. The entrance is flanked by two one-over-one vinyl sash windows, which are used throughout the rest of the house. There is an interior brick chimney.

NRHP Assessment. Architectural resource RK1717 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1717 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1718**

Blockface#:

Quad:

PIN: 158683

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **171 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 171 Chicken Farm Road (Parcel 158683) in Reidsville, newly-recorded architectural resource RK1718 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1718 was limited to the public right-of-way along Narrow Gauge Road.

RK1718 is a one-story vernacular house with a front-gable roof, vinyl siding, a parged foundation, and a rectangular plan. The main entrance is on the west elevation and is covered by a partial-width, gable roof screened porch with. The house has one-over-one vinyl sash replacement windows throughout. There is an interior brick chimney.

NRHP Assessment. Architectural resource RK1718 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1718 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1719**

Blockface#:

Quad:

PIN: 158685

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **181 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 181 Chicken Farm Road (Parcel 158685) in Reidsville, newly-recorded architectural resource RK1719 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1719 was limited to the public right-of-way along Narrow Gauge Road.

RK1719 is a one-story vernacular house with a front-gable roof, vinyl siding, a parged foundation, and a rectangular plan. The southwest façade has a partial-width recessed porch with aluminum clad columns. The house has single and paired one-over-one vinyl sash replacement windows throughout. There is an interior brick chimney.

NRHP Assessment. Architectural resource RK1719 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1719 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1720**

Blockface#:

Quad:

PIN: 158684

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **191 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 191 Chicken Farm Road (Parcel 158684) in Reidsville, newly-recorded architectural resource RK1720 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1720 was limited to the public right-of-way along Narrow Gauge Road.

RK1720 is a one-story vernacular house with a side-gable roof, vinyl siding, a parged foundation, and a rectangular plan. The main entrance is on the northwest façade and is covered by a gable-roof porch with wood posts and a concrete floor. The house has six-over-six vinyl sash replacement windows with faux shutters throughout. There are two interior concrete block chimneys.

NRHP Assessment. Architectural resource RK1720 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1720 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1721**

Blockface#:

Quad:

PIN: 158687

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **203 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 203 Chicken Farm Road (Parcel 158687) in Reidsville, newly-recorded architectural resource RK1721 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1721 was limited to the public right-of-way along Chicken Farm Road.

RK1721 is a one-story vernacular house that is abandoned and overgrown with vegetation. It has a front-gable roof with exposed rafter tails, staggered asphalt shingle siding, a parged foundation, and a rectangular plan. The main entrance is on the southwest façade abut is not visible due to vegetation. The house has one-over-one vinyl sash replacement windows. There is one interior concrete block chimneys.

NRHP Assessment. Architectural resource RK1721 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1721 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1722**

Blockface#:

Quad:

PIN: 158679

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **190 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 203 Chicken Farm Road (Parcel 158679) in Reidsville, newly-recorded architectural resource RK1722 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1722 was limited to the public right-of-way along Chicken Farm Road.

RK1722 is a one-story vernacular house with a front-gable roof with exposed rafter tails, staggered asphalt shingle siding, a poured concrete foundation, and a rectangular plan. The northeast façade features a full-length recessed porch supported by four square wooden posts with a concrete floor. There is drop lap siding and a louvered attic vent in the gable end. The porch shelters a central entrance with a four-light glazed door that is flanked by two eight-over-eight vinyl sash windows, which are used throughout the house. There is one interior brick chimney and a rear concrete block chimney. The house has two outbuildings, including a concrete block shed with gable roof and a metal frame shed with a shed roof.

NRHP Assessment. Architectural resource RK1722 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1722 is not eligible for listing in the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1723**

Blockface#:

Quad:

PIN: 158686

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **228 Chicken Farm Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 228 Chicken Farm Road (Parcel 158686) in Reidsville, newly-recorded architectural resource RK1723 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1723 was limited to the public right-of-way along Chicken Farm Road.

RK1723 is a one-story Minimal Traditional house with a side-gable roof, aluminum siding, and a concrete block foundation. There are two front entrances with a vertical-light glazed doors, one of which is sheltered by a gable-front stoop with decorative iron posts and a concrete floor. The house has one-over-one vinyl sash windows throughout. There are three small storage outbuildings, including one with concrete block construction and a gable roof, and two of frame construction with gable roofs.

NRHP Assessment. Architectural resource RK1723 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1723 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1724**

Blockface#:

Quad:

PIN: 166790

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **228 Chicken Farm Road**Location Description: **off Adams Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 228 Chicken Farm Road (Parcel 166790) in Reidsville, newly-recorded architectural resource RK1724 is a circa 1890 abandoned farmstead containing three collapsing houses that are overgrown with vegetation (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1724 was limited to the public right-of-way along Adams Road.

RK1724 contains a two-story "Triple A" type house with a standing-seam metal roof and asbestos shingles over clapboard siding. The remainder of the house is not visible due to overgrown vegetation. The second resource on the property is a one-story hip roof house with a collapsing front porch and an interior brick chimney. The remainder of the house is not visible due to overgrown vegetation. The third house appears to be a small tenant house with a side-gable roof clad in standing-seam metal and a clapboard exterior. The remainder of the house is not visible due to overgrown vegetation.

NRHP Assessment. Architectural resource RK1724 is a circa 1890 farmstead that possesses poor architectural integrity due to neglect and deterioration, and is recommended not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1725**

Blockface#:

Quad:

PIN: 158565

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House and outbuilding**Street or 911 Address: **273 Brady Club Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 273 Brady Club Road (Parcel 158565) in Reidsville, newly-recorded architectural resource RK1725 was built in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1725 was limited to the public right-of-way along Brady Club Road.

RK1725 is a one-story Ranch house with a side-gable roof, vinyl siding, and a concrete block foundation. Across the façade is a partial-width front porch with a front gable roof supported by square wood posts. The house has one-over-one vinyl sash windows throughout. There is a one-bay garage addition on the southeast elevation of the house. There are three small storage outbuildings, including one with concrete block construction and a gable roof, and two of frame construction with gable roofs. Just southeast of the house is a storage outbuilding with a combination of frame and metal structure and a metal roof.

NRHP Assessment. Architectural resource RK1725 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1725 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1726**

Blockface#:

Quad:

PIN: 158563

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **297 Brady Club Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 297 Brady Club Road (Parcel 158563) in Reidsville, newly-recorded architectural resource RK1726 was built in 1956 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1726 was limited to the public right-of-way along Brady Club Road.

RK1726 is a one-story Ranch house with a side-gable roof, brick veneer exterior, and a continuous brick foundation. On the southeast end of the house is a modern addition with a gable-front roof that contains a second entrance covered by a recessed porch. There is a continuous uncovered brick porch across the façade that terminates at a gable-front portion at the southeast end. The house has one-over-one vinyl sash windows throughout.

NRHP Assessment. Architectural resource RK1726 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1726 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1727**

Blockface#:

Quad:

PIN: 158597

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **201 Brady Club Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 201 Brady Club Road (Parcel 158597) in Reidsville, newly-recorded architectural resource RK1727 was built in 1952 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1727 was limited to the public right-of-way along Brady Club Road.

RK1727 is an altered one-story Ranch house with a hip roof, vinyl siding, and a continuous concrete block foundation. The original main entrance is approached via a concrete stoop with a gable-front roof supported by square wood posts. On the southeast end of the house is a modern addition with a hip roof that contains a second, uncovered entrance. The house has a Chicago-type picture window on the façade and pairs of one-over-one vinyl sash replacement windows. There is a modern frame storage shed in the rear yard.

NRHP Assessment. Architectural resource RK1727 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1727 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1728**

Blockface#:

Quad:

PIN: 158558

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3253 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3253 U.S. Route 158 (Parcel 158558) in Reidsville, newly-recorded architectural resource RK1728 was built in 1955 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1728 was limited to the public right-of-way along U.S. Route 158.

RK1728 is a one-story Ranch house with a side-gable-on-hip roof, a brick veneer exterior, and a continuous brick foundation. The southeast façade has an offset entrance approached via a brick stoop that is flanked by a replacement Chicago-type picture window with vinyl sashes. There are six-over-six vinyl sash windows throughout the rest of the house. The house has a single interior central brick chimney. There is a recessed corner front porch with a decorative iron column that shelters a secondary entrance.

NRHP Assessment. Architectural resource RK1728 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1728 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1729**

Blockface#:

Quad:

PIN: 158559

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3241 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3241 U.S. Route 158 (Parcel 158559) in Reidsville, newly-recorded architectural resource RK1729 was built in 1955 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1729 was limited to the public right-of-way along U.S. Route 158.

RK1729 is a one-story Ranch house with a gable-front-and-wing plan, a brick veneer exterior, and a continuous brick foundation. The southeast façade has an offset entrance with a replacement panel door approached via a brick stoop that is flanked by a four-light picture window on one side and a six-light bay picture window on the other. There are six-over-six vinyl sash windows throughout the rest of the house. The house has a single interior brick chimney.

NRHP Assessment. Architectural resource RK1729 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1729 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1730**

Blockface#:

Quad:

PIN: 158581

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3231 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3231 U.S. Route 158 (Parcel 158581) in Reidsville, newly-recorded architectural resource RK1730 was built in 1961 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1730 was limited to the public right-of-way along U.S. Route 158.

RK1730 is a one-story Ranch house with a side gable roof, a brick veneer exterior, and a continuous brick foundation. The southeast façade has an offset entrance with an embossed door approached via a brick stoop. Flanking the entrance are a three-light horizontal sliding picture window and two-light sliding windows with vinyl faux shutters. On the northeast elevation is a partially enclosed carport supported by decorative brick columns. The house has a single interior brick chimney.

NRHP Assessment. Architectural resource RK1730 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1730 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1731**

Blockface#:

Quad:

PIN: 158584

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3211 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3211 U.S. Route 158 (Parcel 158584) in Reidsville, newly-recorded architectural resource RK1731 was built in 1961 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1731 was limited to the public right-of-way along U.S. Route 158.

RK1731 is a one-story Ranch house with a hip roof, a brick veneer exterior, and a continuous brick foundation. The southeast façade has two separate entrances with embossed doors. The façade features a Chicago-type picture window at the southwest end and horizontal three-light awning windows between the two front doors. There are two interior brick chimneys.

NRHP Assessment. Architectural resource RK1731 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1731 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1732**

Blockface#:

Quad:

PIN: 158584

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3193 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3193 U.S. Route 158 (Parcel 158584) in Reidsville, newly-recorded architectural resource RK1732 was built in 1948 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1732 was limited to the public right-of-way along U.S. Route 158.

RK1732 is a one-story Minimal Traditional house with a side-gable roof, aluminum siding, and a concrete block foundation. The central entrance is sheltered by an interior-arched gable porch hood with decorative iron posts and a concrete stoop. The entrance is flanked by single and paired one-over-one vinyl sash windows, which are used throughout the house. There is a side wing on the southwest elevation and wraparound rear wood deck. The house has an interior brick chimney.

NRHP Assessment. Architectural resource RK1732 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1732 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1733**

Blockface#:

Quad:

PIN: 158554

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **3338 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3338 U.S. Route 158 (Parcel 158554) in Reidsville, newly-recorded architectural resource RK1733 was built in 1912 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1733 was limited to the public right-of-way along U.S. Route 158.

RK1733 is a two-story vernacular house with a side-gable roof clad in metal, a vinyl siding, and a field stone foundation. Across the façade is an altered and extended full-length shed-roof porch supported by wood posts. The house has six-over-six wood sash windows and a rear ell. There is a modern metal detached carport on the southwest side of the house and a mobile home in the rear (south) yard.

NRHP Assessment. Architectural resource RK1733 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1733 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1734**

Blockface#:

Quad:

PIN: 158548

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **3370 US 158**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 3370 U.S. Route 158 (Parcel 158548) in Reidsville, newly-recorded architectural resource RK1734 was built in 1966 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1734 was limited to the public right-of-way along U.S. Route 158.

RK1734 is a one-story commercial building with a side-gable roof, concrete block construction with a brick veneer exterior, and a concrete slab foundation. There is an offset entrance with a double metal-frame door that is flanked by two fixed metal-frame picture windows. The building is fronted by a paved parking lot.

NRHP Assessment. Architectural resource RK1734 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1734 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1735**

Blockface#:

Quad:

PIN: 157941

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **111 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 717 Brooks Road (Parcel 157941) in Reidsville, newly-recorded architectural resource RK1735 was built in 1963 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affected by the Project, photographic coverage of architectural resource RK1735 was limited to the public right-of-way along Brooks Road.

RK1735 is a one-story Ranch house with a hip roof and a brick exterior. The façade features brick planters along its length and a central entrance flanked by a nine-light picture window as well as two six-over-six replacement vinyl sash windows. There is an enclosed carport on the east end of the house now used as a sunroom. The house has an interior end brick chimney.

NRHP Assessment. Architectural resource RK1735 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1735 is not eligible for listing in the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1736**

Blockface#:

Quad:

PIN: 157942

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **127 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 727 Brooks Road, Reidsville, 27320, on parcel 157942, newly-recorded architectural resource RK1736 is a Ranch-style house that is reported to have been constructed in 1963 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

The wood-framed house features a side-gabled roof covered with asphalt shingles, an exterior clad with brick veneer, and a continuous brick foundation. Fenestration includes a three-part picture with decorative muntins and horizontal two-over-two, double-hung aluminum sashes. A carport is attached to the east elevation and has been partially enclosed to create additional living space.

NRHP Assessment. Architectural resource RK1736 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1736 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1737**

Blockface#:

Quad:

PIN: 157943

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **741 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 741 Brooks Road, Reidsville, 27320, on parcel 157943, newly-recorded architectural resource RK1737 is a Ranch-style house that is reported to have been constructed in 1971 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

The wood-framed house features a side-gabled roof covered with asphalt shingles, an exterior clad with brick veneer, an interior central brick chimney, and a continuous brick foundation. Fenestration includes a four-light bay window containing vinyl sashes and horizontal two-over-two, double-hung vinyl sashes. A gabled wing projects from the east elevation and is marked by a two-bay carport that is integral with the wing's roof, which is partially supported by brick columns set atop a low brick wall.

NRHP Assessment. Architectural resource RK1737 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1737 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1738**

Blockface#:

Quad:

PIN: 160014

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1494 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRdate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1494 Brooks Road, Reidsville, 27320, on parcel 160014, newly-recorded architectural resource RK1738 is a farmstead anchored by a one-story, hipped-roof house that is reported to have been constructed in 1900 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

The wood-framed building features a roof covered with asphalt shingles, an interior central brick chimney, an exterior clad with vinyl siding, and a continuous brick foundation. The façade features a reconstructed partial-width entry porch comprised of a shed roof supported by wood posts and a wood plank deck. Within the porch, the door is flanked on each side by a six-over-six, double-hung vinyl sash window. This sash type is repeated in one window east of the porch on a south elevation wing, in three window openings on the south elevation, and in two windows on the north elevation. The west (rear) elevation is marked by a shed-roofed extension.

NRHP Assessment. Architectural resource RK1738 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1738 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
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Tuesday, November 20, 2018

Barn (general)

Frame

An early twentieth-century barn. The wood-framed building features a gabled roof covered with metal sheeting, an exterior partially clad with weatherboard siding, and a pier foundation.

Shed - general storage

A late twentieth-century shed. The wood-framed building features a gabled roof covered with metal sheeting, an exterior clad with vertical wood planks, and a concrete block pier foundation. A shed extension is attached to the east elevation.

Shed - general storage

Frame

1920

A ca. 1920 shed. The wood-framed building features a side-gabled roof covered with metal sheeting, an exterior clad with vertical wood planks, and a continuous stone foundation.

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1739**

Blockface#:

Quad:

PIN: 160084

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1478 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1478 Brooks Road, Reidsville, 27320, on parcel 160084, newly-recorded architectural resource RK1739 is a Ranch-style house that is reported to have been constructed in 1956 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

RK1739 is a single story, Ranch-style dwelling. The structure features a side-gabled roof, interior brick chimney, wood frame with brick veneer-cladded exterior, and double hung 1/1 vinyl sash windows. A brick stoop with concrete slab deck provides access to the main entrance. Attached to the southwest elevation is a two-bay carport. The porch and carport roof are supported by brick columns.

NRHP Assessment. Architectural resource NCRK1739 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource NCRK1739 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1740**

Blockface#:

Quad:

PIN: 160033

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1506 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1506 Brooks Road, Reidsville, 27320, on parcel Number 160033, newly recorded architectural resource RK1740 is a bungalow-influenced house that is reported to have been constructed in 1940 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

RK1740 is a one-and-one-half-story, bungalow-influenced dwelling. The structure features a front-gabled roof, wood frame with vinyl siding-clad exterior, and double hung 1/1 vinyl sash and 6/6 wood sash windows. A full-width porch with tapered wood columns set atop rough field plinth blocks and a concrete slab deck provides access to the main entrance. Attached to the west elevation is a modern wood deck.

NRHP Assessment. Architectural resource RK1740 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1740 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1741**

Blockface#:

Quad:

PIN: 160031

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1658 Brooks Road**Location Description: **off Brooks Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1658 Brooks Road, Reidsville, 27320, on parcel number 160031, newly recorded architectural resource RK1741 is a farmstead anchored by a side-gabled house that is reported to have been constructed in 1880 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1741 was limited to the public right-of-way along Brooks Road.

RK1741 is a one-and-one-half-story dwelling. The structure features a side-gabled roof, wood frame with asbestos shingle-clad exterior, exterior end stone and brick chimney, and a concrete block pier foundation. Fenestration includes double-hung 1/1 aluminum sash and 6/6 wood sash windows. A reconstructed full-width porch with metal posts and a concrete deck provides access to the main entrance. Attached to the north and east elevations is a shed-roofed addition. A modern carport is attached to the west elevation. Associated structures and outbuildings include: a Ranch-style house that is reported to have been constructed in 1976, ca. 1980 agricultural storage building, three ca. 1960 storage buildings, mid twentieth-century chicken house, late tweneith-century vehicle shed, windmill, and a late nineteenth-century log barn (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1741 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1741 is not eligible for the NRHP.

Tuesday, November 20, 2018

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1742**

Blockface#:

Quad:

PIN: 160056,

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1640 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1640 Brooks Road, Reidsville, 27320, on parcel number 160056, newly recorded architectural resource RK1742 is a Ranch-style house that is reported to have been constructed in 1966 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

RK1742 is a one-story structure that features a side-gabled roof, and a wood frame with brick veneer-clad exterior. Fenestration includes double hung horizontal 2/2 and 6/6 vinyl sash windows. A brick and concrete stoop provides access to the main entrance.

NRHP Assessment. Architectural resource RK1742 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1742 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1743**

Blockface#:

Quad:

PIN: 160057

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1630 Brooks Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1630 Brooks Road, Reidsville, 27320, on parcel number 160057, newly recorded architectural resource RK1743 is a Ranch-style house that is reported to have been constructed in 1965 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

RK1743 is a one-story structure that features a side-gabled roof, wood frame with brick veneer-clad exterior, and double hung 1/1 wood sash windows. A brick and concrete stoop provides access to the main entrance. Attached to the south elevation is a two-bay carport that features a gabled roof supported by ornamental metal columns.

NRHP Assessment. Architectural resource RK1743 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1743 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1744**

Blockface#:

Quad:

PIN: 167616

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding**

Street or 911 Address:

Location Description: **off Brooks Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located on the west side of Brooks Road, Reidsville, 27320, on parcel number 167616, newly recorded architectural resource RK1744 is a tobacco barn that is reported to have been constructed in 1919 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Brooks Road.

RK1744 is a structure composed of hand-hewn logs and daub that features a modern gabled roof and a modern shed-roofed lean-to on the south elevation. A door on the east elevation provides interior access to the barn.

NRHP Assessment. Architectural resource RK1744 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1743 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1745**

Blockface#:

Quad:

PIN: 177100

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1625 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1625 Grooms Road, Reidsville, 27320, on parcel number 177100, newly recorded architectural resource RK1745 is a Minimal Traditional-style house that is reported to have been constructed in 1955 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Grooms Road.

RK1745 is a one-story structure that features a gable-on-hip roof, wood frame with vinyl siding-clad exterior, and a continuous brick foundation. Fenestration includes double hung 6/6 vinyl sash windows. A reconstructed single-bay entry porch provides access to the main entrance. A recessed corner porch is positioned at the building's southeast corner. A mid-twentieth-century garage is located east of the house.

NRHP Assessment. Architectural resource RK1745 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1745 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1746**

Blockface#:

Quad:

PIN: 160053

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1626 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1626 Grooms Road, Reidsville, 27320, on parcel number 160053, newly recorded architectural resource RK1746 is a bungalow-influenced house that is reported to have been constructed in 1920 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Grooms Road.

RK1746 is a one-and-one-half-story structure that features a side-gabled roof, wood frame with vinyl siding-clad exterior, interior brick chimney, and a continuous brick foundation. Fenestration includes double hung 9/9 wood sash windows. A full-width entry porch provides access to the main entrance and is comprised of tapered columns set atop brick plinth blocks and a concrete block deck. A gabled dormer is positioned above the porch. An early twentieth-century barn is located south of the house.

NRHP Assessment. Architectural resource RK1746 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1746 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1747**

Blockface#:

Quad:

PIN: 159924

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1576 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1576 Grooms Road, Reidsville, 27320, on parcel number 159924, newly recorded architectural resource RK1747 is a Ranch-style house that is reported to have been constructed in 1952 (Rockingham County, NC WebGIS 2018). Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Grooms Road.

RK1747 is a one-story structure that features a side-gabled roof, wood frame with vinyl siding-clad exterior, and a continuous concrete block foundation. Fenestration includes double hung 4/4 and 6/6 vinyl sash windows. A concrete block stoop provides access to the main entrance. A modern wood deck is attached to the south elevation. Located south and east of the house are two mid-twentieth-century tobacco barns that each feature side-gabled roof and exteriors clad with vertical wood planks.

NRHP Assessment. Architectural resource RK1747 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1747 is not eligible for the NRHP.

Outbuildings/Features**FeatureType****Material****CircaDate Condition****Contrib****Tobacco Barn**

Located south and east of the house are two mid-twentieth-century tobacco barns that each feature side-gabled

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roof and exteriors clad with vertical wood planks.

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1748**

Blockface#:

Quad:

PIN: 159924

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **Grooms Road**Location Description: **off Grooms Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located on the south side of Grooms Road, Reidsville, 27320, on parcel number 159924, newly recorded architectural resource RK1748 is an I-house that appears to have been constructed ca. 1900. Due to access limitation, TRC's evaluation of the property was limited to the public right-of-way along Grooms Road.

RK1748 is a one-and-one-half-story structure that features a side-gabled roof, wood frame with aluminum siding-clad exterior, a central interior brick chimney, and a continuous concrete block foundation. Fenestration includes double hung 6/6 wood sash and 1/1 vinyl sash windows. A full-width entry porch comprised of a hipped roof supported by modern wood posts and a modern brick and concrete slab deck provides access to the main entrance. A shed extension is attached to the south elevation.

NRHP Assessment. Architectural resource RK1748 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1748 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1749**

Blockface#:

Quad:

PIN: 159918

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1513 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1513 Grooms Road, Reidsville, 27320, on parcel number 159918, newly recorded architectural resource RK1749 is a Tudor Revival-influenced house that is reported to have been constructed in 1950 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1749 was limited to the public right-of-way along Grooms Road.

RK1749 is a one-and-one-half-story structure that features a side-gabled roof, wood frame with brick veneer-clad exterior, a central interior brick chimney, and a continuous brick foundation. Fenestration includes double hung 1/1 vinyl and 1/1 wood sash windows. A cross-gabled bay contains an arched brick doorway that is accessed by a brick deck, which provides access to the main entrance. A two-bay carport is attached to east elevation and is integral with the main roof extension which is partially supported by brick piers.

NRHP Assessment. Architectural resource RK1749 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1749 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1750**

Blockface#:

Quad:

PIN: 160012

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1475 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1475 Grooms Road, Reidsville, 27320, on parcel number 160012, newly recorded architectural resource RK1750 is a hipped-roof house that is reported to have been constructed in 1940 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1750 was limited to the public right-of-way along Grooms Road.

RK1750 is a one-story structure that features a hipped roof covered with asphalt shingles, wood frame, and an exterior brick chimney. The building is largely obstructed by heavy vegetation. According to tax data, the house features an exterior clad with asbestos siding, a continuous concrete block foundation, and two enclosed porches (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1750 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1749 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1751**

Blockface#:

Quad:

PIN: 159915

X:**Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1464 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1464 Grooms Road, Reidsville, 27320, on parcel number 159915, newly recorded architectural resource RK1751 is a gable-front-and-wing house that is reported to have been constructed in 1946 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1751 was limited to the public right-of-way along Grooms Road.

RK1751 is a one-story structure that features a gabled roof covered with asphalt shingles, wood frame, and a vinyl siding-clad exterior. Fenestration includes double hung 1/1 vinyl sash windows and a tri-part vinyl sash bay window. A partial-width entry porch provides access to the main entrance and is comprised of a shed roof supported by aluminum columns and a concrete deck.

NRHP Assessment. Architectural resource RK1751 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1751 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1752**

Blockface#:

Quad:

PIN: 169629

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1449 Grooms Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1449 Grooms Road, Reidsville, 27320, on parcel number 169629, newly recorded architectural resource RK1752 is a Craftsman bungalow-style house that is reported to have been constructed in 1958 (Rockingham County, NC WebGIS 2018). According to stylistic evidence, however, it is likely that the house was actually constructed ca. 1920. Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1752 was limited to the public right-of-way along Grooms Road.

RK1752 is a one-and-one-half-story structure that features a gabled roof covered with metal sheeting, two exterior brick chimneys and one interior brick chimney, wood frame, and an aluminum siding-clad exterior. Fenestration includes double hung 4/1 wood sash windows. A wraparound entry porch provides access to the main entrance and is comprised of a gabled roof supported by aluminum columns and a brick and concrete deck. Located north of the house are a ruinous brick shed, and two mid-twentieth-century wood-framed sheds.

NRHP Assessment. Architectural resource RK1752 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1752 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Shed - general storage	Frame			
two mid-twentieth-century wood-framed sheds.				
Shed - general storage	Brick		Ruinous	

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1753**

Blockface#:

Quad:

PIN: 159936

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **705 Frank Road**Location Description: **off Frank Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 705 Frank Road, Reidsville, 27320, on parcel number 159936, newly recorded architectural resource RK1753 is a Ranch-style house that is reported to have been constructed in 1967 (Rockingham County, NC WebGIS 2018).

RK1753 is a one-story structure that features a side-gabled roof covered with asphalt shingles, an interior brick chimney, wood frame, and a brick veneer-clad exterior. Fenestration includes double-hung horizontal 2/2 aluminum sash windows. A modern wood deck provides access to the main entrance. A carport is attached to the east elevation and is integral with the main roof. Located northwest of the house is a prefabricated wood-framed shed.

NRHP Assessment. Architectural resource RK1753 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1753 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1754**

Blockface#:

Quad:

PIN: 159919

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **689 Frank Road**Location Description: **off Frank Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 689 Frank Road, Reidsville, 27320, on parcel number 159919, newly recorded architectural resource RK1754 is a Ranch-style house that is reported to have been constructed in 1962 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1754 was limited to the public right-of-way along Frank Road.

RK1754 is a one- story structure that features a hipped roof covered with metal sheeting, an interior brick chimney, wood frame, and a brick veneer-clad exterior. Fenestration includes double-hung 6/6 vinyl sash windows. An enclosed corner porch provides access to the main entrance, is integral with the main roof, and is accessed by a brick stoop.

NRHP Assessment. Architectural resource RK1754 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1754 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Barn (general)				

Located north of the house is a late nineteenth-century log barn assembled with half-dovetail corner notching.

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The barn features a modern gabled roof and a modern shed lean-to attached to the east elevation.

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1755**

Blockface#:

Quad:

PIN: 159926

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **934 Frank Road**Location Description: **off Frank Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 934 Frank Road, Reidsville, 27320, on parcel number 159926, newly recorded architectural resource RK1755 is a side-gabled, massed-plan house that is reported to have been constructed in 1937 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1755 was limited to the public right-of-way along Frank Road.

RK1755 is a one-and-one-half-story structure that features a roof covered with metal sheeting, two exterior end brick chimneys, wood frame, and an aluminum siding-clad exterior. Fenestration includes double-hung 1/1 vinyl sash windows. A full-width porch provides access to the main entrance, and is comprised of a shed roof supported by modern aluminum columns set atop brick plinth blocks and a concrete slab deck.

NRHP Assessment. Architectural resource RK1755 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1755 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1756**

Blockface#:

Quad:

PIN: 159824

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **574 Combs Road**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 574 Combs Road, Reidsville, 27320, on parcel number 159824, newly recorded architectural resource RK1756 is a Ranch-style house that is reported to have been constructed in 1971 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1756 was limited to the public right-of-way along Combs Road.

RK1756 is a one-story structure that features a side-gabled roof, an exterior end brick chimney, wood frame, and a vinyl siding-clad exterior. Fenestration includes a fixed vinyl sash picture window. A full-width porch provides access to the main entrance, and is comprised of a shed roof supported by modern wood posts. Located southwest of the house is a wood-framed tobacco barn that is reported to have been constructed in 1950 (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1756 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1756 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1757**

Blockface#:

Quad:

PIN: 171459

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **2400 NC 150**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 2400 Rte. NC 150, Reidsville, 27320, on parcel number 171459, newly recorded architectural resource RK1757 is a two-story I-house that is reported to have been constructed in 1880 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1757 was limited to the public right-of-way along Rte. NC 150.

RK1757 is a dwelling that features a side-gabled roof covered with metal sheeting, two exterior end stone and brick chimneys, wood frame, and a vinyl siding-clad exterior. Fenestration includes double-hung 6/6 vinyl sash windows. A reconstructed full-height, full-width porch provides access to the main entrance, and is comprised of a gabled roof supported by aluminum posts. Located north and west of the house are a collection of associated outbuildings that include two storage buildings reportedly constructed in 1940, three early twentieth-century sheds, and a late nineteenth-century log storage crib (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1757 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1757 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1758**

Blockface#:

Quad:

PIN: 161593

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1358 NC 87**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1358 Rte. NC 87, Reidsville, 27320, on parcel number 161593, newly recorded architectural resource RK1758 is a Craftsman bungalow-style house that is reported to have been constructed in 1926 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1758 was limited to the public right-of-way along Rte. NC 87.

RK1758 is a one-and-one-half-story dwelling that features a side-gabled roof covered with metal sheeting, two interior brick chimneys, wood frame, an asbestos shingle-clad exterior, and a continuous concrete block foundation. Fenestration includes double-hung 2/2 wood sash windows. A full-width entry porch provides access to the main entrance, and is integral with the main roof, which is partially supported by modern wood posts. A modern wood deck is attached to the south (rear) elevation. Located south of the house are a late nineteenth-century log tobacco barn and a twentieth-century wood-framed barn (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1758 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1758 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1759**

Blockface#:

Quad:

PIN: 161612

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**

Street or 911 Address:

Location Description: **off of Rte. NC 87**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1186 Rte. NC 87, Reidsville, 27320, on parcel number 161612, newly recorded architectural resource RK1759 is a T-plan house that is reported to have been constructed in 1917 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1759 was limited to the public right-of-way along Rte. NC 87.

RK1759 is a two-story dwelling that features a side-gabled roof covered with pressed metal, an exterior end stone and brick chimney, an interior central brick chimney, wood frame, and an asbestos shingle-clad exterior. Fenestration includes double-hung 2/2 and 6/6 wood sash windows. A wraparound entry porch provides access to the main entrance, and is comprised of a hipped roof supported by tapered wood posts set atop concrete plinth blocks. A two-story gabled ell projects from the south (rear) elevation. Located south and west of the house are a tobacco barn, two utility buildings, and a shed, reported to have been constructed in 1930, 1980, and 1975, respectively (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1759 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1759 is not eligible for the NRHP.

Outbuildings/Features

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1760**

Blockface#:

Quad:

PIN: 165269

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **1171 NC 87 Hwy**

Location Description:

Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1171 Rte. NC 87, Reidsville, 27320, on parcel number 165269, newly recorded architectural resource RK1760 is a log tobacco barn that appears to have been constructed ca. 1910 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1760 was limited to the public right-of-way along Rte. NC 87.

RK1760 is a tobacco barn constructed of hand-hewn logs joined with square notching and features a gabled metal roof. Openings on the south and west elevations provide interior access to the barn. Located southwest of the barn is a late twentieth-century shed.

NRHP Assessment. Architectural resource RK1760 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1760 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1761**

Blockface#:

Quad:

PIN: 161609

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **396 High Rock Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 396 High Rock Road, Reidsville, 27320, on parcel number 161609, newly recorded architectural resource RK1761 is a Ranch-style house that is reported to have been constructed in 1953 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1761 was limited to the public right-of-way along High Rock Road.

RK1761 is a one-story dwelling that features a hipped roof, interior brick chimney, wood frame, brick veneer-clad exterior, and continuous brick foundation. Fenestration includes double-hung 1/1 vinyl sashes. A brick stoop provides access to the main entrance. The north elevation is marked by an attached two-bay garage.

NRHP Assessment. Architectural resource RK1761 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1761 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1762**

Blockface#:

Quad:

PIN: 161608

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **416 High Rock Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 416 High Rock Road, Reidsville, 27320, on parcel number 161608, newly recorded architectural resource RK1762 is a Ranch-style house that is reported to have been constructed in 1960 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1762 was limited to the public right-of-way along High Rock Road.

RK1762 is a one-story dwelling that features a side-gabled roof, interior central brick chimney, wood frame, brick veneer-clad exterior, and continuous brick foundation. Fenestration includes double-hung 1/1 and two-light sliding aluminum sashes. A brick stoop provides access to the recessed main entrance. The north elevation is marked by an attached one-bay carport.

NRHP Assessment. Architectural resource RK1762 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1762 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1763**

Blockface#:

Quad:

PIN: 174827

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Farmstead**Street or 911 Address: **691 High Rock Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 691 High Rock Road, Gibsonville, 27249, on parcel number 174827, newly recorded architectural resource RK1763 is a center hall plan house that is reported to have been constructed in 1910 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1763 was limited to the public right-of-way along High Rock Road.

RK1763 is a one-and-one-half-story house that features a side-gabled roof covered with standing seam metal, a vinyl siding-clad exterior, and a continuous concrete block foundation. Fenestration includes double-hung 9/9 vinyl sash windows. A partial-width reconstructed entry porch provides access to the main entrance. The porch is comprised of a shed roof supported by modern wood posts and a concrete deck.

NRHP Assessment. Architectural resource RK1763 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1763 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1764**

Blockface#:

Quad:

PIN: 170392

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Outbuilding and tobacco barn**Street or 911 Address: **900 Kernodle Road**Location Description: **off Kernodle Rd.**Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 900 Kernodle Road, Gibsonville, 27249, on parcel number 170392, newly recorded architectural resource RK1764 is a barn that is reported to have been constructed in 1962 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1764 was limited to the public right-of-way along Kernodle Road.

RK1764 is a two-story outbuilding that features a front-gabled roof covered with standing seam metal, a weatherboard siding-clad exterior, and a concrete block pier foundation. Doors are positioned on the south and east elevations. Two open bays on the east elevation provide machine storage. Located northwest of the two-story barn is a tobacco barn that was reportedly constructed in 1962 (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1764 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1764 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1765**

Blockface#:

Quad:

PIN: 163084

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **963 Kernodle Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 963 Kernodle Road, Gibsonville, 27249, on parcel number 163084, newly recorded architectural resource RK1765 is a side-gabled house that is reported to have been constructed in 1961 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1765 was limited to the public right-of-way along Kernodle Road.

RK1765 is a one-story house that features a roof covered with asphalt shingles, a vinyl siding-clad exterior, and a concrete block foundation. Fenestration includes double-hung 1/1 vinyl sash windows. A reconstructed single-bay entry porch provides access to the main entrance. The porch is composed of a gabled roof supported by square wood posts and a concrete slab deck (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1765 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1765 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1766**

Blockface#:

Quad:

PIN: 163085

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **973 Kernodle Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 973 Kernodle Road, Gibsonville, 27249, on parcel number 163085, newly recorded architectural resource RK1766 is a Ranch-style house that is reported to have been constructed in 1950 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1766 was limited to the public right-of-way along Kernodle Road.

RK1766 is a one-story house that features a side-gabled roof covered with standing seam metal, a vinyl siding-clad exterior, and an interior concrete block chimney. Fenestration includes double-hung 1/1 vinyl sash windows. A partial-width entry porch provides access to the main entrance and has been partially enclosed. The porch is composed of a gabled roof supported by an ornamental metal post and a wood plank deck. A shed-roofed addition is attached to the west elevation (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1766 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1766 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1767**

Blockface#:

Quad:

PIN: 163107

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1075 Kernodle Road**

Location Description:

Town/vicinity: **Gibsonville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1075 Kernodle Road, Gibsonville, 27249, on parcel number 163107, newly recorded architectural resource RK1767 is a Ranch-style house that is reported to have been constructed in 1963 (Rockingham County, NC WebGIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1767 was limited to the public right-of-way along Kernodle Road.

RK1767 is a one-story house that features a side-gabled roof covered with asphalt shingles, an interior central brick chimney, a brick veneer -clad exterior, and a continuous brick foundation. Fenestration includes horizontal 2/2 double-hung wood sash windows. A brick and concrete stoop provides access to the main entrance. A two-bay carport is attached to the east elevation and is comprised of a gabled roof supported by brick piers (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1767 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1767 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Tuesday, November 20, 2018

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1768**

Blockface#:

Quad:

PIN: 177121

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1379 Mount Carmel Church Road**Location Description: **off Mount Carmel Church Rd.**Town/vicinity: **Reidsville**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRdate: NR #: **None**

☐ DOE DOEdat:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1379 Mount Carmel Church Road, Reidsville, 27320, on parcel number 177121, newly recorded architectural resource RK1768 is a side-gabled house. The building is reported to have been constructed in 1920, but stylistic evidence indicates the building was likely constructed in the late nineteenth century (Rockingham County, NC WebGIS 2018).

RK1768 is a two-story house that features a side-gabled roof covered with standing seam metal, an exterior end stone chimney, and a weatherboard siding-clad exterior. Fenestration includes 4/4 double-hung wood sash windows. A reconstructed full-width entry porch provides access to the main entrance and is composed of a shed roof supported by wood posts and a wood plank deck. A full-width shed extension is attached to the north (rear) elevation. Located east of the house is a mid-twentieth-century shed (Rockingham County, NC WebGIS 2018).

NRHP Assessment. Architectural resource RK1768 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1768 is not eligible for the NRHP.

Outbuildings/Features**Actions**

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Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1769**

Blockface#:

Quad:

PIN: n/a

X: **Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Railroad fragment**Street or 911 Address: **within the APE of Contractor Yard**Location Description: **Located within the APE of Contractor Yard-04**Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLDate:☐ NR NRDate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located within the APE of Contractor Yard-04, which is associated with the proposed MVP Southgate pipeline project, architectural resource RK1769 consists of an approximately 2.78-mile segment of railroad track owned by Norfolk-Southern Railroad Company.

The railroad track segment is part of what was previously the Southern Railway Company, established in 1894. The Southern was formed following a series of mergers involving shorter-lived railroad companies, beginning in the 1830s. The line previously associated with the project area that became part of the Southern Railway was chartered in 1847 as the Richmond and Danville Railroad Company. Completed between Richmond and Danville in 1856, the track system was expanded after the Civil War to 3,300 miles. Southern Railway was absorbed by Norfolk-Southern in 1982. The company currently provides freight service (primarily for coal), incorporating a 21,500 mile track system (Storey n.d.; SRHA n.d.).

The railroad segment within the study area features a raised embankment covered with ballast that supports a modern track composed of wood cross ties and steel rails. The segment located within the architectural APE of CY-03 traverses an industrial and residential area within the town of Eden.

NRHP Evaluation. Architectural resource RK1769 is a segment of a late nineteenth-century railroad that has been continuously altered through routine maintenance for more than a century. As an actively managed rail line, the railroad bed has received regular repairs that have resulted in the replacement of the original tracks, cross-ties and ballast. As such, no materials associated with the original construction of the railroad remain.

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For these reasons, it is the opinion of TRC that architectural resource RK1769 is not eligible for the NRHP.

Outbuildings/Features

Actions

Tuesday, November 20, 2018

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1770**

Blockface#:

Quad:

PIN: 110552

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **First Baptist Church of Draper**Street or 911 Address: **1017 Fieldcrest Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1017 Fieldcrest Road, Eden, 27288, on parcel 110552, architectural resource RK1770 is a Neoclassical Revival church (Rockingham County, NC GIS 2018) . A cornerstone indicates that the current building was constructed in 1962 and replaced an earlier church that was erected on the site in 1902. The property is currently operated by the First Baptist Church of Draper.

The two-story, concrete block-frame building features a gable-front roof covered with asphalt shingles, an exterior clad with a brick veneer, and a raised foundation clad with brick. Facing south, the façade contains a central door opening containing a pair of wood panel doors that are topped by a seven-light wood transom.

The façade doors are accented with a Classically-inspired surround marked with a broken piedmont that is supported by plain wood pilasters. Flanking the main entrance are single window openings with brick jack arches and concrete sills that contain 8/8, double-hung wood sashes. This sash type is repeated in three symmetrically placed windows along the second story, which are not accented with jack arches. A full-façade portico containing a concrete deck that is fronted by a series of concrete steps, provides access to the main entrance. The portico is shielded by a projecting gable roof that is supported by four wood columns that contain fluting detailing and Corinthian-style capitals. These ornamental features are also found on two wood pilasters that flank the central bay. The employment of Classical detailing is visible in the portico's entablature and raking cornice, which are accented with dentils and mutules. Positioned within the gable field of the portico roof is a wood sash fanlight with 10 lights.

Topping the roof of the church is a brick tower that supports a metal spire. The tower is accented with an unadorned metal cornice and topped with four urn finials that also appears to be metal. Situated atop the tower is an octagonal-shaped belfry that is pierced by a series of narrow arched window openings containing multi-light metal sashes. Resting atop the belfry is the spire, which is topped by a ball and spire finial. The east and west elevations of the building are divided into five window bays that are separated by brick pilasters. Each bay is pierced by a large, arched window opening that contains a 30/20 double-hung wood sash window that is topped by a multi-light wood fanlight. Positioned near the portico is a door opening that contains a wood paneled door that is set within a Classically-inspired door surround. The door surround is topped by a broken pediment that is supported by an entablature and pilasters. Additional fenestration along the elevations include a series of five windows containing 8/8 double-hung wood sashes along the ground level.

Attached near the east and west elevations of the building are two-story, side-gable wings that are clad with a brick veneer exterior and feature 6/6 double-hung wood sash windows. Finally, an exterior brick chimney is attached to the north (rear) elevation of the main block.

NRHP Assessment. Architectural resource RK1770 is a typical example of a mid-twentieth century Neoclassical style church. In accordance with NRHP Criteria Consideration A, religious buildings are normally not eligible for the NRHP unless they derive their primary significance from architectural or artistic distinction or are considered to be of historical importance. The property cannot be associated with important historical event(s) or person(s). Due to lack of the historic and architectural significance it is the opinion of TRC that architectural resource RK1770 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
House	Brick	1962	Good	Ye
A ca. 1962, one-story, Ranch style dwelling with Neoclassical detailing. The building functions as the church's manse and features a side-gabled roof, wood frame with brick veneer-cladded exterior, and double-hung 8/9 wood sash windows. A center-bay porch with a brick deck provides access to the main entrance. The porch is shielded by a projecting gable roof that is supported by four wood columns with fluting detailing. The house includes an exterior brick chimney and a single-bay garage on its north (rear) elevation				
Fellowship Hall	Brick	1962	Good	Ye
A one-story, Neoclassical style building that functions as a fellowship hall for the church congregation (Rockingham County, NC GIS 2018). The building was constructed in 1962 and features a masonry frame with a brick veneer-cladded exterior, a side-gabled roof, and double hung 6/6 double-hung wood sash windows. The building includes an entrance on the west elevation that is set within a Classically-inspired door surround. The door surround is topped by a broken pediment that is supported by an entablature and pilasters. Finally, the building is topped by an octagonal-shaped cupola that contains a bell-shaped roof				
Activity building	Metal	1970	Good	No
A ca. 1970, one-story building that functions as an activity building for the church. The steel-frame building features a low-pitch gable-front roof, a metal panel exterior and a pair of steel doors on the east elevation				

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1771**

Blockface#:

Quad:

PIN: 111286

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1002 Fieldcrest Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdat:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1002 Fieldcrest Road, Eden, 27288, on parcel 111286, architectural resource RK1771 has a reported construction date of 1946 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1771 was limited to the public right-of-way along Fieldcrest Road.

RK1771 is a one-story, Minimal Traditional-style dwelling. The structure features a side-gabled roof, an interior brick chimney, wood frame with a vinyl siding exterior, a concrete block foundation, and double-hung 6/6 vinyl sash windows. A center bay concrete slab stoop with a concrete block foundation provides access to the main entrance. The porch is shielded by a projecting gable roof that is supported by square posts composed of synthetic material.

NRHP Assessment. Architectural resource RK1771 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1771 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1772**

Blockface#:

Quad:

PIN: 111318

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1104 West Front Avenue**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL ☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1104 West Front Avenue, Eden, 27288, on parcel 111318, architectural resource RK1772 has a reported construction date of 1925 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1772 was limited to the public right-of-way along West Front Avenue.

RK1772 is a one-story, hipped-roof dwelling. The structure features an interior brick chimney, wood frame with a vinyl siding exterior, a foundation comprised of brick piers and concrete block infill, and double-hung 3/1 wood sash windows. A partial-width porch that is enclosed with 1/1 metal sash windows and vinyl siding provides access to the main entrance. The porch is shielded by a hipped roof that is supported by square posts composed of synthetic material.

NRHP Assessment. Architectural resource RK1772 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1772 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1773**

Blockface#:

Quad:

PIN: 110558

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **1018 E. Meadow Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdat:

Local District:

☐ Recommended for SL☐ StudyList

SLdate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdat:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 1018 East Meadow Road, Eden, 27288, on parcel 110558, architectural resource RK1773 has a reported construction date of 1964 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1773 was limited to the public right-of-way along East Meadow Road.

RK1773 is a one-story, Ranch style dwelling. The structure features a side-gabled roof, wood frame with brick veneer-cladded exterior, a brick foundation, and double-hung 1/1 vinyl sash windows. A carport located on the west elevation, and which is integral with the main roof, provides access to the main entrance.

NRHP Assessment. Architectural resource RK1773 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1773 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1774**

Blockface#:

Quad:

PIN: 110543

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **914 E. Meadow Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 914 East Meadow Road, Eden, 27288, on parcel 110543, architectural resource RK1774 has a reported construction date of 1950 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1774 was limited to the public right-of-way along East Meadow Road.

RK1774 is a one-story, Minimal Traditional style dwelling. The structure features a side-gabled roof, an interior brick chimney, wood frame with vinyl siding-cladded exterior, a brick foundation, and double-hung 1/1 vinyl sash windows. A partial-width porch with a brick deck provides access to the main entrance. The porch roof is supported by four posts composed of synthetic material. Attached to the façade is an exterior brick chimney.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1775**

Blockface#:

Quad:

PIN: 110542

X: Y:

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **906 E. Meadow Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate: SLdate: DOEdat:

Local District:

☐ Recommended for SL ☐ StudyList SLdate: ☐ NR NRDate: NR #: **None**

☐ DOE DOEDate:

DOE Type: Local Status: **None** Ownership:

Principal Resource Material Integrity: Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified** Later Covering:

Height: Roof: Plan: Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme: 2nd Theme:

Group Association: Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 906 East Meadow Road, Eden, 27288, on parcel 110542, architectural resource RK1775 has a reported construction date of 1974 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1775 was limited to the public right-of-way along East Meadow Road.

RK1775 is a one-story, Ranch style dwelling. The structure features a side-gabled roof, an interior brick chimney, wood frame with brick veneer-cladded exterior, a brick foundation, and double-hung 6/6 wood sash windows. A partial-width porch with a brick deck provides access to the main entrance. The porch consists of a projecting gable roof that is supported by four aluminum columns.

NRHP Assessment. Architectural resource RK1775 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1775 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1776**

Blockface#:

Quad:

PIN:

X:**Y:**

DOT Project #:

OSA#:**Update** Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Industrial Building**Street or 911 Address: **335 Summit Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 335 Summit Road, Eden, 27288, on parcel 108180, architectural resource RK1776 has a reported construction date of 1964 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1776 was limited to the public right-of-way along Summit Road.

RK1776 is a one-story manufacturing textile plant. Metal letters attached to the primary façade (east elevation) indicates that it is operated by SGRTEX . The concrete frame structure features a flat roof, and a brick veneer-cladded exterior. The primary entrance is located at the northeast corner of the building and includes a metal-glass door that is flanked by window walls composed of single-panes set in an aluminum frame. A flat metal canopy roof shields the main entry.

Situated along the north elevation are a series of loading bays that contain overhead metal doors and a an exterior brick chimney .

NRHP Assessment. Architectural resource RK1776 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1776 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Water Tank	Metal	1965	Fair	No

Associated with the property is a water tank with a reported construction date of 1965 (Rockingham County, NC GIS 2018).

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1777**

Blockface#:

Quad:

PIN: 108207

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **333 Summit Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 333 Summit Road, Eden, 27288, on parcel 108207, architectural resource RK1777 has a reported construction date of 1939 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1777 was limited to the public right-of-way along Summit Road.

RK1777 is a one-story, Bungalow-influenced dwelling. The structure features a gable-front roof, two interior brick chimneys, wood frame with vinyl siding-cladded exterior, a brick foundation, and double-hung 1/1 vinyl sash windows. A partial-width porch with a concrete deck provides access to the main entrance. The porch consists of a side gabled roof that is supported by synthetic columns, which rest atop brick plinth blocks.

NRHP Assessment. Architectural resource RK1777 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1777 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Garage	Concrete Block	1939	Fair	No

A ca. 1939 garage (Rockingham County, NC GIS 2018). The concrete block structure features a gable-front

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roof, modern wood paneling within the gable fields, a single bay with a sliding wood door, and a metal pedestrian door on the primary elevation

Shed - general storage

Frame

1995

Fair

No

A ca. 1995 storage shed (Rockingham County, NC GIS 2018). The wood frame structure features a shed roof and an exterior clad with metal panels

Actions

Historic Property Survey SummaryCounty: **Rockingham**SSN: **RK1778**

Blockface#:

Quad:

PIN: 108203

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **323 Summit Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList SLdate:☐ NR NRdate:NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 323 Summit Road, Eden, 27288, on parcel 108203, architectural resource RK1778 has a reported construction date of 1947 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1778 was limited to the public right-of-way along Summit Road.

RK1778 is a one-story, Minimal Traditional style dwelling. The structure features a gable-front and side-gable roof, an interior brick chimney, wood frame with brick veneer-cladded exterior, a brick foundation, and double-hung 6/6 vinyl and wood sash windows. A partial-width porch that is enclosed with jalousie windows provides access to the main entrance. The porch is also partially enclosed with a brick veneer and is capped with a shed roof. A modern side-gabled wing addition with an attached carport is connected to the north elevation. The wing addition is clad with a brick veneer exterior.

NRHP Assessment. Architectural resource RK1778 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1778 is not eligible for the NRHP.

Outbuildings/Features**Actions**

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1779**

Blockface#:

Quad:

PIN: 108212

X: Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **House**Street or 911 Address: **533 Summit Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 518 Summit Road, Eden, 27288, on parcel 108212, architectural resource RK1779 has a reported construction date of 1947 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1779 was limited to the public right-of-way along Summit Road.

RK1779 is a one-story, Tudor Revival-influenced dwelling. The structure features a side-gable roof covered with asphalt shingles, an exterior brick chimney on the facade, wood frame with brick veneer-cladded exterior, a brick foundation, and double-hung 1/1 vinyl sash windows. A center bay porch with a concrete slab provides access to the main entrance. The porch is shielded with a metal shed roof that is supported by metal posts.

NRHP Assessment. Architectural resource RK1779 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1779 is not eligible for the NRHP.

Outbuildings/Features

FeatureType	Material	CircaDate	Condition	Contrib
Warehouse	Concrete Block	1950	Fair	no

•A ca. 1950 warehouse (Rockingham County, NC GIS 2018). The concrete block building is capped with a

Tuesday, November 20, 2018

side-gabled roof covered with asphalt shingles and includes a bay entrance on the west elevation

Shed - general storage

Frame

Modern

Good

No

•A modern storage building. The wood-frame building features a gable-front roof covered with asphalt shingles and an exterior clad with vinyl siding. A door is located on the west elevation. Attached to the north elevation of the building is a shed-roof-wing that is clad exterior vinyl siding and includes a pair of swinging wood doors on the west elevation

Actions

Historic Property Survey Summary

County: **Rockingham**SSN: **RK1780**

Blockface#:

Quad:

PIN: 164418

X:

Y:

DOT Project #:

OSA#:

Update Mo: Yr:

☐ No Alt ☐ Alt ☐ Det ☐ Rehab☐ **Removed** ☐ Outbldg Loss☐ No Acc. ☐ Not Fnd ☐ FileMsg☐ Newly ID'd ☐ Needs Resch.Property Name: **Commercial Building**Street or 911 Address: **655 E. Meadow Road**

Location Description:

Town/vicinity: **Eden**District: **None ()**

District Dates: NRdate:

SLdate:

DOEdate:

Local District:

☐ Recommended for SL☐ StudyList

SLDate:

☐ NR

NRDate:

NR #: **None**☐ DOE DOEdate:

DOE Type:

Local Status: **None**

Ownership:

Principal Resource Material Integrity:Condition: **Not specified** Location Integrity:**Architectural Data:** Date(s): **Not specified**Major Style Group(s) **Not specified**Construction: **Not specified**Ext. Material: **Not specified**

Later Covering:

Height:

Roof:

Plan:

Core Form (Domestic):

Design Source and attribution: **Not specified**

Major Theme:

2nd Theme:

Group Association:

Religious Affiliation

Historic Function:

Written Summary:

Site Description. Located at 55 East Meadow Road, Eden, 27288, on parcel 164418, architectural resource RK1780 has a reported construction date of 1960 with warehouse additions added to the facility in 1965, 1966 and 1970 (Rockingham County, NC GIS 2018). Due to lack of landowner permission to access properties that are not directly affect by the Project, photographic coverage of architectural resource RK1780 was limited to the public right-of-way along East Meadow Road and Summit Road.

RK1780 is a one-story furniture manufacturing plant that is currently operated by the AC Furniture company. The concrete frame structure features a low-pitch gable roof covered with sheet metal, and a brick veneer-cladded exterior. The primary entrance is located at the northeast elevation of the building and includes a pair of metal-glass doors that is flanked by window walls set in aluminum frames. A flat metal canopy roof shields the main entry. Positioned north of the main entrance is a single door opening containing a metal-glass door that is also shielded by a flat metal canopy. Marking the façade are six window bays that have been infilled with masonry. The enclosure of original window openings also occurred on the south elevation of the building.

Attached to the north elevation of the original plant is the 1965 warehouse addition. The one story, concrete block addition features a flat roof covered with a rubber membrane, and an exterior partially clad with a brick veneer along on its north elevation. Situated on the addition's east elevation is a loading bay for tractor trailers. Connected to the northeast elevation of the 1960 building are the 1966 and 1970 warehouse and docking bay additions. These additions share a common roof and are of masonry construction featuring an

Tuesday, November 20, 2018

exterior partially clad with a brick veneer. Former window bays along the east elevation of the 1966 addition have been infilled with masonry. A series of three loading bays shielded by a flat metal canopy are positioned along the north elevation of the 1970 addition .

NRHP Assessment. Architectural resource RK1780 does not exhibit a distinctive architectural style or workmanship. The property cannot be associated with important historical event(s) or person(s). Due to lack of historic and architectural significance it is the opinion of TRC that architectural resource RK1780 is not eligible for the NRHP.

Outbuildings/Features

Actions



MVP Southgate Project

Docket No. CP19-14-000

Attachment 83-1

March 2019

From: Ramsey, Agnes
To: [THPO CIN - Wenonah G. Haire \(wenonahh@ccppcrafts.com\)](mailto:THPO.CIN-Wenonah.G.Haire@ccppcrafts.com); [Russell Townsend \(russtown@nc-choke.com\)](mailto:Russell.Townsend@nc-choke.com); pawmunkeytribe@pawmunkey.org; [Stephen Adkins](mailto:Stephen.Adkins); Frank; [Anne Richardson](mailto:Anne.Richardson); samflyingeagle48@yahoo.com; Mnation538@aol.com; Lockamylee@yahoo.com; [Tony Hayes](mailto:Tony.Hayes); sappony@msn.com; [Kelli Petersen](mailto:Kelli.Petersen)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Miller, Alex](mailto:Miller.Alex); [Estabrook, Richard](mailto:Estabrook.Richard); [Webb, Paul](mailto:Webb.Paul); [Shawn Day \(shawn@capresults.net\)](mailto:Shawn.Day@capresults.net); [Balduzzi, Sarah \(Sarah.Balduzzi@nexteraenergy.com\)](mailto:Sarah.Balduzzi@nexteraenergy.com)
Subject: MVP Southgate Tribal Site Visit
Date: Wednesday, February 6, 2019 9:45:00 AM
Attachments: [image001.png](#)



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpssouthgate.com
www.mvpssouthgate.com

Hello,

MVP Southgate would like to invite you to attend a site visit at a location along the MVP Southgate pipeline route on March 14th, 2019. The site is near the town of Eden, North Carolina. During the visit, the cultural resources team will introduce visitors to the investigations that are ongoing at the site, review their activities, their discoveries, and discuss next steps. We encourage you to ask questions, share your concerns and observations, and help us learn about tribal interpretation of objects both found by the team and identified during the visit by tribe members. It is important to the entire MVP Southgate team that significant and sensitive sites are recognized and a deliberate plan developed to address them.

Should you decide to participate, please let me know as soon as possible. I will provide detailed directions, a schedule, and logistics information when I receive the names and contact information of the folks who will represent your organization.

My email address is agnes.ramsey@nee.com and phone number is (561) 691-2820. Please feel free to contact me on any questions you may have about this event.

Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

MVP Southgate

Phone (561) 691-2820

Cell (561) 385-9018

From: Ramsey, Agnes
To: "pamunkeytribe@pamunkey.org"
Subject: FW: MVP Southgate Tribal Site Visit
Date: Wednesday, February 6, 2019 9:58:00 AM
Attachments: [Image001.png](#)



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpssouthgate.com
www.mvpssouthgate.com

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Should you decide to participate, please let me know as soon as possible. I will provide detailed directions, a schedule, and logistics information when I receive the names and contact information of the folks who will represent your organization.

My email address is agnes.ramsey@nee.com and phone number is (561) 691-2820. Please feel free to contact me on any questions you may have about this event.

Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

MVP Southgate

Phone (561) 691-2820

Cell (561) 385-9018

From: [High Plains Indians, Inc.](#)
To: [Ramsey, Agnes](#)
Subject: Re: MVP Southgate Tribal Site Visit
Date: Sunday, February 10, 2019 3:21:48 PM
Attachments: [image001.png](#)

CAUTION - EXTERNAL EMAIL

Hi, Agnes,

Hope you have had a nice weekend. On behalf of the Sappony (Person County NC and Halifax County VA), I am planning to attend the March 14th site visit.

Please let me know the details so that I might plan further.

Thanks for the invitation.

Charlene Martin

From: Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com>
Sent: Wednesday, February 6, 2019 9:45 AM
To: THPO CIN - Wenonah G. Haire (wenonahh@ccppcrafts.com); Russell Townsend (russtown@nc-cherokee.com); pawmunkeytribe@pawmunkey.org; Stephen Adkins; Frank; Anne Richardson; samflyingeagle48@yahoo.com; Mnation538@aol.com; Lockamylee@yahoo.com; Tony Hayes; sappony@msn.com; Kelli Petersen
Cc: Martin, Kyle; Miller, Alex; Estabrook, Richard; Webb, Paul; Shawn Day (shawn@capresults.net); Balduzzi, Sarah
Subject: MVP Southgate Tribal Site Visit



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpssouthgate.com
www.mvpssouthgate.com

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Should you decide to participate, please let me know as soon as possible. I will provide detailed directions, a schedule, and logistics information when I receive the names and contact information of the folks who will represent your organization.

My email address is agnes.ramsey@nee.com and phone number is (561) 691-2820. Please feel free to contact me on any questions you may have about this event.

Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

MVP Southgate

Phone (561) 691-2820

Cell (561) 385-9018

From: Ramsey, Agnes
To: ["samflyingeagle48@yahoo.com"](mailto:samflyingeagle48@yahoo.com)
Subject: MVP Southgate Site Visit
Date: Monday, February 18, 2019 4:15:00 PM

Chief Bass,

I hope that you are doing well. I wanted to follow up with you in regards to the invitation we sent a couple of weeks ago for a site visit on March 14th, 2019 along the MVP Southgate Pipeline route near the Dan River in North Carolina. This visit will provide an opportunity to observe our approach to archaeological investigations in an area that has potential for discovery. Please give me a call when you have a moment to discuss. We would very much like you to attend.

Thank you,

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

From: Ramsey, Agnes
To: [Stephen Adkins](#); [Anne Richardson](#); [Sam Bass \(samflyingeagle48@yahoo.com\)](#); [Chief Frank Adams](#); [Gerald A. Stewart \(vicechief@cied.org\)](#)
Cc: ["Doris.Austin@cied.org"](#)
Subject: March 14th MVP Southgate Tribal Site Visit
Date: Wednesday, February 20, 2019 1:51:00 PM

Hello Everyone,

I hope that you or a representative are considering attending the MVP Southgate Tribal Site Visit on Thursday, March 14th. The site is located just south of Eden, North Carolina adjacent to the Dan River and the Draper Boat Ramp.

I will arrive in Richmond on the 13th and can provide transportation to Eden from Richmond that afternoon for the visit the morning of the 14th. MVP Southgate will sponsor the overnight stay. We can return to Richmond after lunch on the 14th.

Please let me know if you are attending and if you are interested in this arrangement.
Thank you,

Agnes S. Ramsey

Project Manager - Tribal Relations
NextEra Energy
Phone (561) 691-2820
Cell (561) 385-9018

From: [Ellen Chapman](#)
To: [Ramsey, Agnes](#)
Cc: [Marion Werkheiser](#); [Kelli Petersen](#); [Martin, Kyle](#); [Lavarco, William](#); [Miller, Alex](#)
Subject: Re: MVP Southgate Cultural Resource Reports
Date: Thursday, February 21, 2019 2:03:10 PM
Attachments: [image001.png](#)
[image005.png](#)
[image002.png](#)
[screenshot of FTP error.png](#)

CAUTION - EXTERNAL EMAIL

Dear Agnes,

Thank you for calling today! Attached is the screenshot of the error that came up when I attempted to open that FTP URL using File Explorer. I have also tried accessing it in Google Chrome and in Microsoft Edge. In Chrome it did show me the pub folder, but there was no option to login when I right clicked.

Do you happen to know whether accessing the link through an FTP client for Windows would work? I might try that next.


Best,
Ellen

On Thu, Feb 21, 2019 at 1:43 PM Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com> wrote:

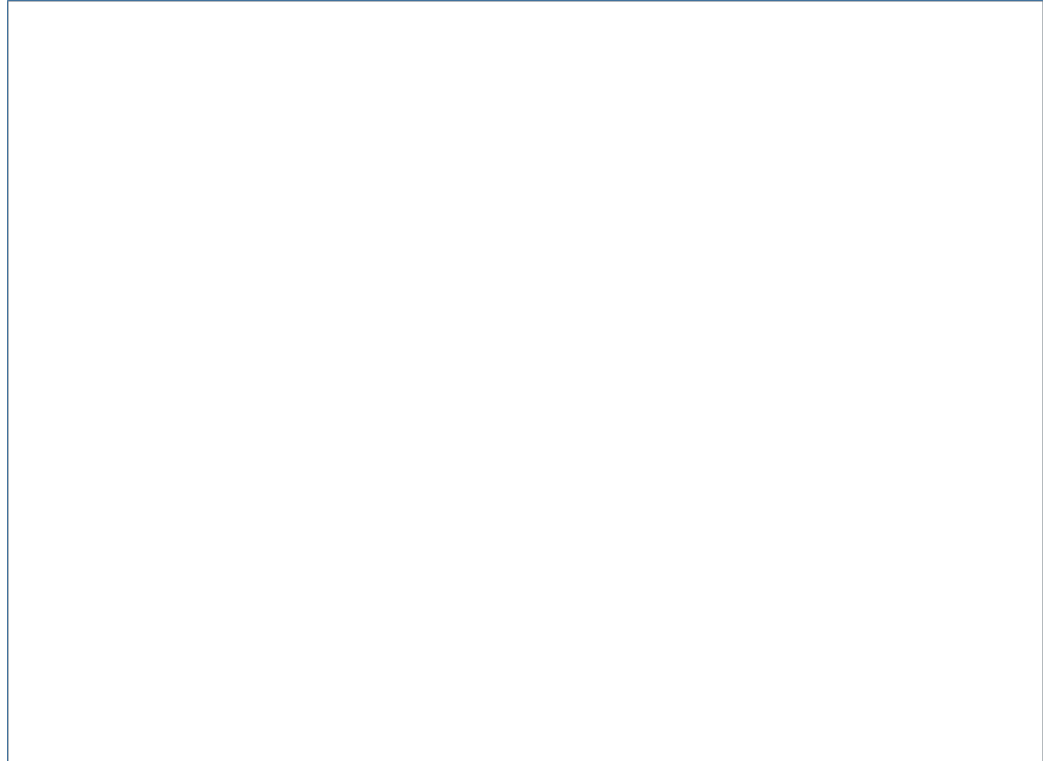
All,

Please use the following instructions to access the Tribal Relations - MVP Southgate FTP Site where all available reports have been posted.

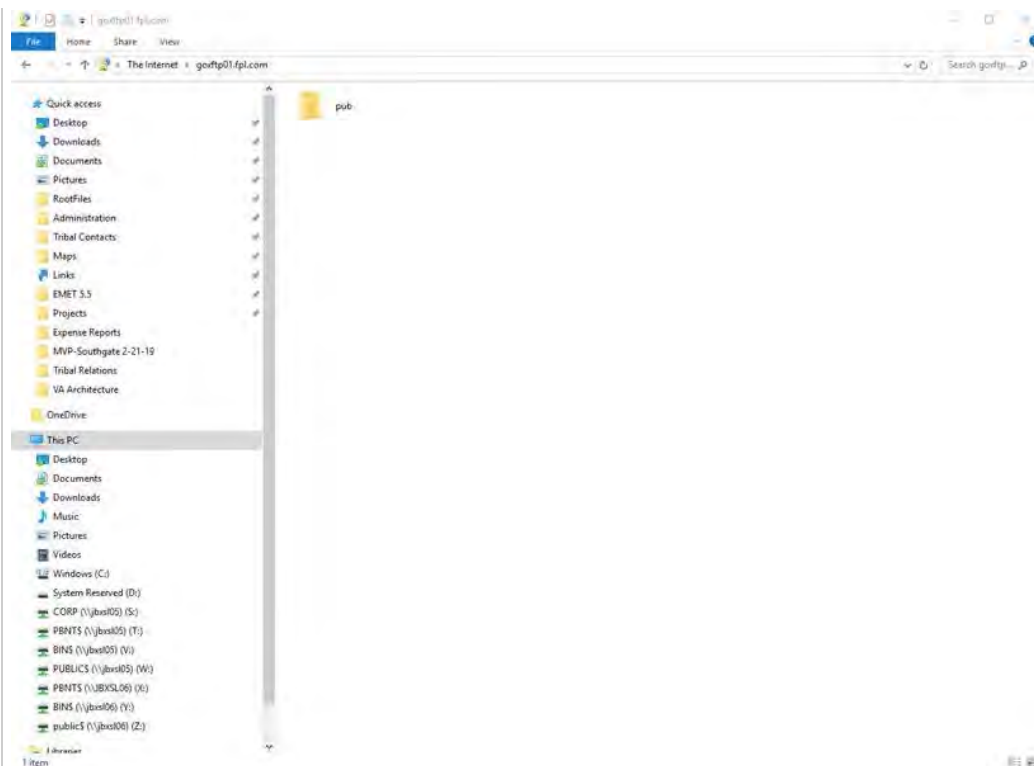



If you are using Windows, click on the  icon in the Taskbar at the bottom of your computer screen, the icon will appear with the words File Explorer to the right of the icon, click on the icon.

On the next page, enter <ftp://goxftp01.fpl.com> in the search bar.



This screen should appear -



Right click in the white space to the right and below  , Select Login As . . .

Enter User Name: CABUSTRelatnsRO and Password (case sensitive): nBEL?dca and ensure that the Log on anonymously box is not checked, then click

Log On. You should see three folders, two will be empty and the third MVP-Southgate 2-21-19 will contain 7 files:

PRIV – MVP Southgate – NC Archaeology Report.pdf

PRIV – MVP Southgate – NC Architecture Report.pdf

PRIV – MVP Southgate – VA Archaeology Report.pdf

PRIV – MVP Southgate – VA Architecture Report.pdf

PUBLIC – RR04_Appendix 4-C_MVP Southgate FERC Filing_11-5-18.pdf (Unanticipated Discoveries Plan (Draft))

RR04-MVP Southgate Project FERC Filing_11-5-2018.pdf

RR04-MVP Southgate Project_RR 4 Tables Section 11-5-18.pdf

If you have trouble accessing the ftp site or opening the folder/files, please don't hesitate to call me at the numbers below.

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

Cultural Heritage Partners, PLLC
1811 East Grace St, Suite A
Richmond, VA 23223
Direct/Text: 434-327-6663
www.culturalheritagepartners.com

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From: Ramsey, Agnes
To: ["Ellen Chapman"](#)
Subject: RE: MVP Southgate Cultural Resource Reports
Date: Thursday, February 21, 2019 2:11:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image004.png](#)

Ellen

Thanks, I am connecting to our IT to see what the issue may be, I'll get back to you.

On another topic, the file number for the site that we will be visiting is 31RK217. Do you have an idea on the number of folks that would be attending the site visit from CHP and the Monacan and the Sappony?

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

From: Ellen Chapman <ellen@culturalheritagepartners.com>
Sent: Thursday, February 21, 2019 2:02 PM
To: Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com>
Cc: Marion Werkheiser <marion@culturalheritagepartners.com>; Kelli Petersen <kelli@culturalheritagepartners.com>; Martin, Kyle <Kyle.Martin@nexteraenergy.com>; Lavarco, William <William.Lavarco@nexteraenergy.com>; Miller, Alex <Alex.Miller@nexteraenergy.com>
Subject: Re: MVP Southgate Cultural Resource Reports

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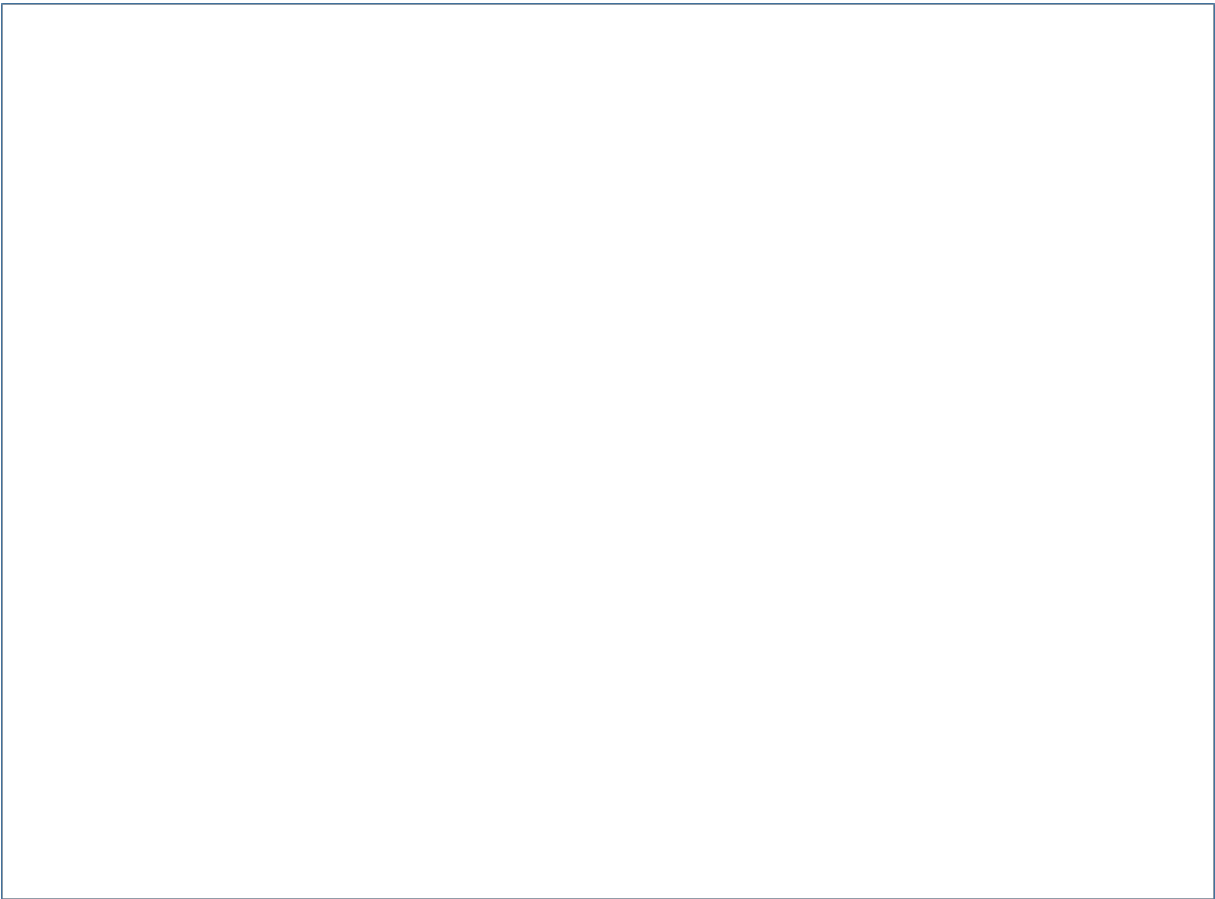
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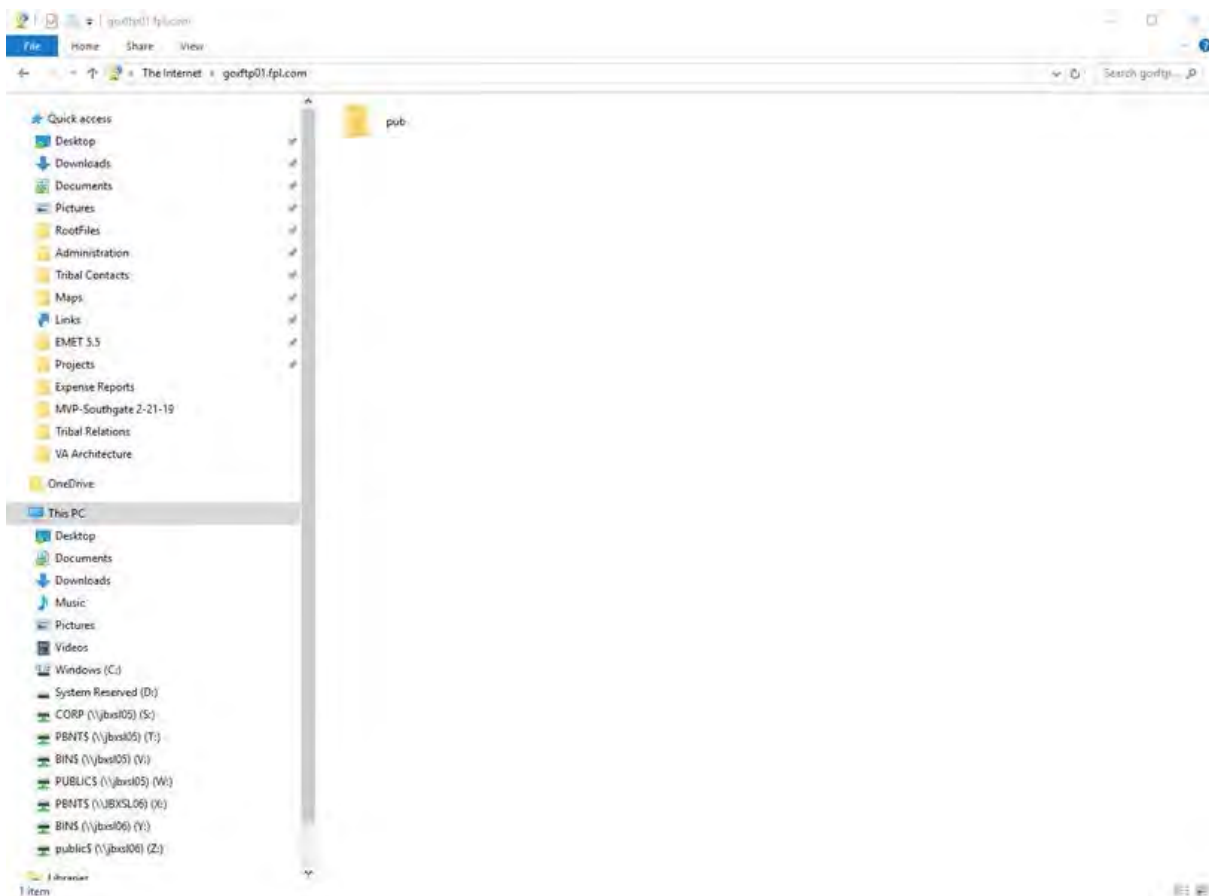



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Plan (Draft))

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Agnes S. Ramsey

Project Manager - Tribal Relations
 NextEra Energy
 Phone (561) 691-2820
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--

Ellen Chapman, PhD
 Cultural Resources Specialist
 Cultural Heritage Partners, PLLC
 1811 East Grace St, Suite A
 Richmond, VA 23223
 Direct/Text: 434-327-6663

www.culturalheritagepartners.com

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From: [Ellen Chapman](#)
To: [Ramsey, Agnes](#)
Cc: [Marion Werkheiser](#); [Kelli Petersen](#)
Subject: Re: MVP Southgate Cultural Resource Reports
Date: Thursday, February 21, 2019 2:32:59 PM

Hi Agnes - I used an FTP client and was able to download the files! I can open them all and am reviewing them now.

I understand based on the file structures that there is one archaeology and one architectural report for North Carolina and the same for Virginia. The reports are both in Phase I. Am I to understand from this that Phase II testing is just beginning for the project? Also, that there has not been any submission of supplemental reports for areas that were not able to be surveyed initially?

Thank you!
Ellen

On Thu, Feb 21, 2019 at 2:11 PM Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com> wrote:

Ellen

Thanks, I am connecting to our IT to see what the issue may be, I'll get back to you.

On another topic, the file number for the site that we will be visiting is 31RK217. Do you have an idea on the number of folks that would be attending the site visit from CHP and the Monacan and the Sappony?

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

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Cell (561) 385-9018

From: Ellen Chapman <ellen@culturalheritagepartners.com>
Sent: Thursday, February 21, 2019 2:02 PM
To: Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com>
Cc: Marion Werkheiser <marion@culturalheritagepartners.com>; Kelli Petersen <kelli@culturalheritagepartners.com>; Martin, Kyle <Kyle.Martin@nexteraenergy.com>; Lavarco, William <William.Lavarco@nexteraenergy.com>; Miller, Alex <Alex.Miller@nexteraenergy.com>
Subject: Re: MVP Southgate Cultural Resource Reports

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Ellen Chapman, PhD

Cultural Resources Specialist

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From: Ramsey, Agnes
To: ["Ellen Chapman"](#)
Cc: [Marion Werkheiser](#); [Kelli Petersen](#)
Subject: RE: MVP Southgate Cultural Resource Reports
Date: Thursday, February 21, 2019 2:43:00 PM

Ellen,

Great, glad that you could open them. You are correct, there is one archaeology and one architectural for each state and they are Phase I. Phase II is underway and I'll let you know when the first report is available and loaded in the ftp site. According to our cultural lead there have been no additional submissions.

When you get a chance let me know about the folks that plan to attend the site visit,
Thanks,

Agnes S. Ramsey

Project Manager - Tribal Relations
NextEra Energy
Phone (561) 691-2820
Cell (561) 385-9018

From: Ellen Chapman <ellen@culturalheritagepartners.com>
Sent: Thursday, February 21, 2019 2:32 PM
To: Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com>
Cc: Marion Werkheiser <marion@culturalheritagepartners.com>; Kelli Petersen <kelli@culturalheritagepartners.com>
Subject: Re: MVP Southgate Cultural Resource Reports

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Cell (561) 385-9018

From: Ellen Chapman <ellen@culturalheritagepartners.com>
Sent: Thursday, February 21, 2019 2:02 PM
To: Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com>
Cc: Marion Werkheiser <marion@culturalheritagepartners.com>; Kelli Petersen <kelli@culturalheritagepartners.com>; Martin, Kyle <Kyle.Martin@nexteraenergy.com>; Lavarco, William <William.Lavarco@nexteraenergy.com>; Miller, Alex <Alex.Miller@nexteraenergy.com>
Subject: Re: MVP Southgate Cultural Resource Reports

CAUTION - EXTERNAL EMAIL

Dear Agnes,

Thank you for calling today! Attached is the screenshot of the error that came up when I attempted to open that FTP URL using File Explorer. I have also tried accessing it in Google Chrome and in Microsoft Edge. In Chrome it did show me the pub folder, but there was no option to login when I right clicked.

Do you happen to know whether accessing the link through an FTP client for Windows would work? I might try that next.

Best,
Ellen

On Thu, Feb 21, 2019 at 1:43 PM Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com> wrote:

All,

Please use the following instructions to access the Tribal Relations - MVP Southgate FTP Site where all available reports have been posted.




If you are using Windows, click on the icon in the Taskbar at the bottom of your computer screen, the icon will appear with the words File Explorer to the right of the icon, click on the icon.

On the next page, enter <ftp://goxftp01.fpl.com> in the search bar.



This screen should appear -



Right click in the white space to the right and below , Select Login As . . .
Enter User Name: CABUSTRelatnsRO and Password (case sensitive): nBEL?dca and ensure that the Log
on anonymously box is not checked, then click
Log On. You should see three folders, two will be empty and the third MVP-Southgate 2-21-19 will
contain 7 files:

PRIV – MVP Southgate – NC Archaeology Report.pdf
PRIV – MVP Southgate – NC Architecture Report.pdf
PRIV – MVP Southgate – VA Archaeology Report.pdf
PRIV – MVP Southgate – VA Architecture Report.pdf
PUBLIC – RR04_Appendix 4-C_MVP Southgate FERC Filing_11-5-18.pdf (Unanticipated Discoveries

Plan (Draft))

RR04-MVP Southgate Project FERC Filing_11-5-2018.pdf
RR04-MVP Southgate Project_RR 4 Tables Section 11-5-18.pdf

If you have trouble accessing the ftp site or opening the folder/files, please don't hesitate to call me at the numbers below.

Agnes S. Ramsey

Project Manager - Tribal Relations
NextEra Energy
Phone (561) 691-2820
Cell (561) 385-9018

--

Ellen Chapman, PhD
Cultural Resources Specialist
Cultural Heritage Partners, PLLC
1811 East Grace St, Suite A
Richmond, VA 23223
Direct/Text: 434-327-6663
www.culturalheritagepartners.com

This email message and any attachments are being sent by Cultural Heritage Partners, PLLC, are confidential, and may be privileged. If you are not the intended recipient, please notify us immediately— by replying to this message or by sending an email to ellen@culturalheritagepartners.com— and destroy all copies of this message and any attachments. Thank you.

--


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From: Ramsey, Agnes
To: [Marion Werkheiser](#); "[Kelli Petersen](#)"; "[Ellen@culturalheritagepartners.com](#)"
Cc: [Kyle Martin](#) ([Kyle.Martin@nexteraenergy.com](#)); [Lavarco, William](#); [Miller, Alex](#)
Subject: MVP Southgate Cultural Resource Reports
Date: Thursday, February 21, 2019 1:43:00 PM
Attachments: [image001.png](#)
[image005.png](#)
[image002.png](#)

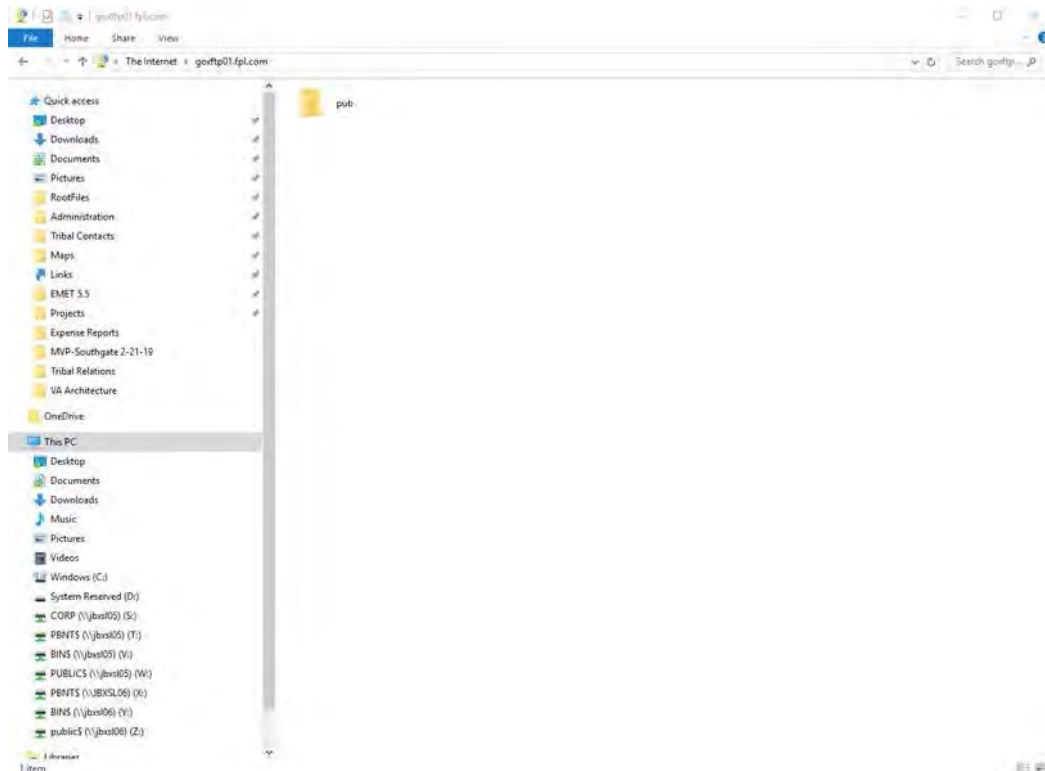
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Right click in the white space to the right and below , Select Login As . . .

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Enter User Name: CABUSTRelatnsRO and Password (case sensitive): nBEL?dca and ensure that the Log on anonymously box is not checked,

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Agnes S. Ramsey
Project Manager - Tribal Relations
NextEra Energy
Phone (561) 691-2820
Cell (561) 385-9018

From: [Ellen Chapman](#)
To: [Ramsey, Agnes](#)
Cc: [Marion Werkheiser](#); [Kelli Petersen](#)
Subject: Southgate files from NextEra
Date: Monday, February 25, 2019 3:33:04 PM

CAUTION - EXTERNAL EMAIL

Dear Agnes,

Thanks for providing the files on Thursday! We are reviewing them now. I just wanted to clarify one point, can we now share the files and/or information from them with both the Monacan and Sappony tribal leaders, in accordance with the confidentiality agreements signed by leadership from both tribes?

Thanks,
Ellen

--

Ellen Chapman, PhD
Cultural Resources Specialist
Cultural Heritage Partners, PLLC
1811 East Grace St, Suite A
Richmond, VA 23223
Direct/Text: 434-327-6663
www.culturalheritagepartners.com

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From: Ramsey, Agnes
To: [Tony Hayes](#); "[Vickie Jeffries \(vickiejeffries@yahoo.com\)](mailto:VickieJeffries@yahoo.com)"
Subject: MVP Southgate Tribal Site Visit
Date: Monday, February 25, 2019 2:56:00 PM

Mr. Hayes & Ms. Jeffries,
Recently I forwarded an invitation to a Tribal Site Visit along the route of the MVP Southgate project. It is on March 14th located near the town of Eden in North Carolina. I hope that you were considering attending. Please let me know.

Thank You,

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

From: [Ellen Chapman](#)
To: [Ramsey, Agnes](#)
Cc: [Marion Werkheiser](#); [Kelli Petersen](#); [Lavarco, William](#)
Subject: Re: Southgate files from NextEra
Date: Tuesday, February 26, 2019 9:32:58 AM

Thanks for clarifying!
Ellen

On Tue, Feb 26, 2019 at 8:39 AM Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com> wrote:

Ellen,

I double checked with Legal and yes, you can share with the tribal leaders that signed the agreements. If there is anyone else that is from CHP or from the tribes that needs to be copied, they first must review and sign the last page of the Confidentiality Agreement.

Thanks for checking,

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

From: Ellen Chapman <ellen@culturalheritagepartners.com>
Sent: Monday, February 25, 2019 3:32 PM
To: Ramsey, Agnes <Agnes.Ramsey@nexteraenergy.com>
Cc: Marion Werkheiser <marion@culturalheritagepartners.com>; Kelli Petersen <kelli@culturalheritagepartners.com>
Subject: Southgate files from NextEra

CAUTION - EXTERNAL EMAIL

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Ellen Chapman, PhD

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Ellen Chapman, PhD

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From: Ramsey, Agnes
To: [Marion Werkheiser; "Ellen@culturalheritagepartners.com"](mailto:Marion.Werkheiser@ellen@culturalheritagepartners.com)
Cc: ["Sarah Curtis"](#)
Subject: Yesterday's Lunch and Meeting
Date: Wednesday, October 10, 2018 9:46:00 PM

Hello,

Thank you all for taking the time to have lunch and meet with me yesterday. We covered several very interesting topics and I learned much from you. I hope that I provided answers to some of your questions about the Mountain Valley Pipeline (MVP) and the MVP Southgate project. I am working on gathering the information that you all inquired about while we talked. You may have additional questions in regards to the projects and if that is the case, please don't hesitate to call me.

Let's talk again soon,

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

From: Ramsey, Agnes
To: [Marion Werkheiser; \"Ellen@culturalheritagepartners.com\"](mailto:Marion.Werkheiser; \)
Subject: Centerline Map for MVP Southgate
Date: Thursday, October 18, 2018 10:49:00 AM
Attachments: [MVP_Southgate_ctrline_20180817.kmz](#)

Marion and Ellen,

Please see the attached map for MVP Southgate from mid-August. You may want to adjust the color of the line used to map the route, purple just isn't that visible. Just a reminder that it is not the final route as we are still performing field investigations and addressing comments. We will have an updated map after filing with FERC in November and I will forward it to you when I am copied.

I am working on getting the final route for MVP, I hope to have it soon.

PS. FERC makes the final route decision.

Agnes S. Ramsey

Project Manager - Tribal Relations

NextEra Energy

Phone (561) 691-2820

Cell (561) 385-9018

From: Ramsey, Agnes
To: ["alynch@haliwa-saponi.com"](mailto:alynch@haliwa-saponi.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
Attachments: [image001.png](#)

Hello,

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

On November 6, 2018, MVP Southgate plans to file its application on the Federal Energy Regulatory Commission (FERC) Docket for the proposed project (MVP Southgate FERC Docket number is PF18-4-000). The filing will initiate the FERC regulatory review process.

Considering the regulatory responsibility of FERC, a federal agency, the proposed project will require review under both Section 106 of the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA). FERC will produce an Environmental Impact Statement (EIS) as part of its review process and initiate Section 106 consultation.

MVP Southgate does not intend for any discussions between the Tribe and MVP Southgate to take the place of any official Section 106 consultation that has or will be conducted. Rather, our communication is consistent with our policy to reach out to Tribes with interest in the area of our projects and provide the latest information and gather feedback on the proposed project. If you have an interest in meeting with me and the project developer so that we can answer any questions, provide you additional information, and / or discuss any concerns you may have about the project location, please let me know.

For your convenience, please use the links below to view the historic and current information on the project.

FERC eLibrary: <https://www.ferc.gov/docs-filing/elibrary.asp>

MVP Southgate News & Info: <http://www.mvpsouthgate.com/news-info/>

Again, as it is MVP Southgate's policy to reach out to Tribes that have an interest in the area of the project, I wanted to provide you this information and offer an opportunity to meet over the next few months. If you would like additional information or to schedule a meeting at your offices to discuss the project, please let me know. I can be reached at (561) 691-2820 or via e-mail at Agnes.Ramsey@nee.com.

Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["Anne Richardson"](#)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hello Chief Anne,

I hope that all is well with you. Next week, MVP Southgate will achieve one of the project milestones and I wanted to provide an update. The message below will fill you in.

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

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Agnes.Ramsey@nee.com .

Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["ashively@jenachoctaw.org"](mailto:ashively@jenachoctaw.org)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:12:00 PM
Attachments: [image001.png](#)

Hello,

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: [NC CoIA - Gregory A. Richardson \(greg.richardson@doa.nc.gov\)](mailto:greg.richardson@doa.nc.gov)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hello Mr. Richardson,

I hope that all is well with you. As promised, I am providing the latest update on the Southgate project, see below.

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["Ian Thompson"](#)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
Attachments: [image001.png](#)

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

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Cell (561) 385-9018



From: Ramsey, Agnes
To: ["cowboy_john1@msn.com"](mailto:cowboy_john1@msn.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: Jay.Toth@SNI.org
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:10:00 PM
Attachments: [image001.png](#)

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: [Delaware Nation - Kim Penrod \(kpenrod@delawarenation.com\)](mailto:kpenrod@delawarenation.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hi Kim,

Please take a look at the update below on a natural gas pipeline that we are developing.

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

On November 6, 2018, MVP Southgate plans to file its application on the Federal Energy Regulatory Commission (FERC) Docket for the proposed project (MVP Southgate FERC Docket number is PF18-4-000). The filing will initiate the FERC regulatory review process.

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: [Karen Prichett \(kprichett@ukb-nsn.gov\)](mailto:kprichett@ukb-nsn.gov)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:10:00 PM
Attachments: [image001.png](#)

Hello,

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["allstonfam@aol.com"](mailto:allstonfam@aol.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

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Project Manager - Tribal Relations

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From: Ramsey, Agnes
To: ["Lockamylee@yahoo.com"](mailto:Lockamylee@yahoo.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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From: Ramsey, Agnes
To: ["mcustalow@gcaservices.com"](mailto:mcustalow@gcaservices.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: Mnation538@aol.com
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hello Chief Branham,

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["obsntribe@gmail.com"](mailto:obsntribe@gmail.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:10:00 PM
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Project Manager - Tribal Relations

Phone (561) 691-2820

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From: Ramsey, Agnes
To: ["pamunkeytribe@pamunkey.org"](mailto:pamunkeytribe@pamunkey.org)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
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Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

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From: Ramsey, Agnes
To: ["rhonda.oto@gmail.com"](mailto:rhonda.oto@gmail.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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Regards,

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Project Manager - Tribal Relations

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From: Ramsey, Agnes
To: [Russell Townsend \(russtown@nc-choke.com\)](mailto:russtown@nc-choke.com); [EBCL - Stephen Yerka \(syerka@nc-choke.com\)](mailto:EBCL - Stephen.Yerka (syerka@nc-choke.com))
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:12:00 PM
Attachments: [image001.png](#)

Russ and Stephen,

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Project Manager - Tribal Relations

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From: Ramsey, Agnes
To: ["Stephen Adkins"](#)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:12:00 PM
Attachments: [image001.png](#)

Hello Chief Adkins,

I hope that you are well. The message below provides the latest on the MVP Southgate project.

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To: ["sappony@msn.com"](mailto:sappony@msn.com)
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From: Ramsey, Agnes
To: ["tonya@shawnee-tribe.com"](mailto:tonya@shawnee-tribe.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: [Tony Hayes](#)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](#); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:12:00 PM
Attachments: [image001.png](#)

Hello Mr. Hayes,

I look forward to seeing you next Thursday evening when we present the project to the Occaneechi Tribal Council. In the meantime, I have provided the latest update on the project in the message below.

On November 6, 2018, MVP Southgate plans to file its application on the Federal Energy Regulatory Commission (FERC) Docket for the proposed project (MVP Southgate FERC Docket number is PF18-4-000). The filing will initiate the FERC regulatory review process.

Considering the regulatory responsibility of FERC, a federal agency, the proposed project will require review under both Section 106 of the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA). FERC will produce an Environmental Impact Statement (EIS) as part of its review process and initiate Section 106 consultation.

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["wdbrowniii@aol.com"](mailto:wdbrowniii@aol.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:10:00 PM
Attachments: [image001.png](#)

Hello,

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["wfrankadams@verizon.net"](mailto:wfrankadams@verizon.net)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hello Chief Adams,

I hope that all is well with you. As promised, I am providing the latest update on the Southgate project, see below.

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

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Agnes.Ramsey@nee.com .

Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: [THPO CIN - Wenonah G. Haire \(wenonahh@ccppcrafts.com\)](mailto:wenonahh@ccppcrafts.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:12:00 PM
Attachments: [image001.png](#)

Hi Dr. Haire,

Let's catch up soon. The message below provides an update on the MVP Southgate project.

On November 6, 2018, MVP Southgate plans to file its application on the Federal Energy Regulatory Commission (FERC) Docket for the proposed project (MVP Southgate FERC Docket number is PF18-4-000). The filing will initiate the FERC regulatory review process.

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["106NAGPRA@astribe.com"](mailto:106NAGPRA@astribe.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
Attachments: [image001.png](#)

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["temple@delawaretribe.org"](mailto:temple@delawaretribe.org)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:12:00 PM
Attachments: [image001.png](#)

Hi Susan,

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["arnold.printup@srmt-nsn.gov"](mailto:arnold.printup@srmt-nsn.gov)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
Attachments: [image001.png](#)

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["fporter@lumbeetribe.com"](mailto:fporter@lumbeetribe.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
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Agnes S. Ramsey

Project Manager - Tribal Relations

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Cell (561) 385-9018



From: Ramsey, Agnes
To: ["greg_jacobs53@yahoo.com"](mailto:greg_jacobs53@yahoo.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
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Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["bill-baker@cherokee.org"](mailto:bill-baker@cherokee.org)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
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Project Manager - Tribal Relations

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From: Ramsey, Agnes
To: ["Bonney.Hartley@Mohican-nsn.gov"](mailto:Bonney.Hartley@Mohican-nsn.gov)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: bprintup@hetf.org
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hello Bryan,

I hope that all is well, please see the update below.

Mountain Valley Pipeline, LLC, is in the process of developing the MVP Southgate project. As proposed, MVP Southgate extends 73 miles and will transport natural gas from Pittsylvania County, Virginia to new delivery points in Rockingham and Alamance Counties, North Carolina.

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["tonsene@aol.com"](mailto:tonsene@aol.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:11:00 PM
Attachments: [image001.png](#)

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Regards,

Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: [Caitlin Haire \(caitlinh@ccppcrafts.com\)](mailto:CaitlinHaire@ccppcrafts.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:13:00 PM
Attachments: [image001.png](#)

Hi Caitlin,

Congratulations on the new baby! I hope that both of you are doing well. Below is an update on the MVP Southgate project.

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Agnes.Ramsey@nee.com.

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Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



From: Ramsey, Agnes
To: ["chiefbrownmeherrin@yahoo.com"](mailto:chiefbrownmeherrin@yahoo.com)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
Subject: Update: MVP Southgate Natural Gas Pipeline
Date: Friday, November 2, 2018 6:10:00 PM
Attachments: [image001.png](#)

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Agnes S. Ramsey

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From: Ramsey, Agnes
To: [Corain Lowe-Zepeda \(Clowe@mcn-nsn.gov\)](mailto:Corain.Lowe-Zepeda@mcn-nsn.gov)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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From: Ramsey, Agnes
To: ["cwhite@pci-nsn.gov"](mailto:cwhite@pci-nsn.gov)
Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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From: Ramsey, Agnes
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Cc: [Kyle Martin \(Kyle.Martin@nexteraenergy.com\)](mailto:Kyle.Martin@nexteraenergy.com); [Webb, Paul](#)
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Agnes S. Ramsey

Project Manager - Tribal Relations

Phone (561) 691-2820

Cell (561) 385-9018



Ramsey, Agnes

From: Ramsey, Agnes
Sent: Friday, November 2, 2018 6:10 PM
To: 'wtarrant@sctribe.com'
Cc: Kyle Martin (Kyle.Martin@nexteraenergy.com); Webb, Paul
Subject: Update: MVP Southgate Natural Gas Pipeline

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Project Manager - Tribal Relations
Phone (561) 691-2820
Cell (561) 385-9018



Hamberg, Alexis

From: Ramsey, Agnes
Sent: Wednesday, February 27, 2019 4:00 PM
To: Anne Richardson; Chief Frank Adams; Stephen Adkins; Sam Bass (samflyingeagle48@yahoo.com); pamunkeytribe@pamunkey.org; wasandson@cox.net; THPO CIN - Wenonah G. Haire (wenonahh@ccppcrafts.com); Caitlin Haire (caitlinh@ccppcrafts.com); EBCI - Stephen Yerka (syerka@nc-chokeee.com); Russell Townsend (russtown@nc-chokeee.com); Ellen Chapman
Cc: Miller, Alex; Estabrook, Richard; Hamberg, Alexis
Subject: MVP Southgate Cultural Resource Report(s) - 2nd Transmittal


Good afternoon,

Please follow the directions I provided on yesterday for access to the latest cultural resource report – PRIV_MVP_Southgate_VA_PhaseII_and_Deep_Testin.pdf. I am also including the direction below. Should you have issues opening the folders or accessing the FTP site, feel free to contact me at the numbers below or my email address. Also, there are several FTP Client Assistance applications available on the internet.

Agnes S. Ramsey

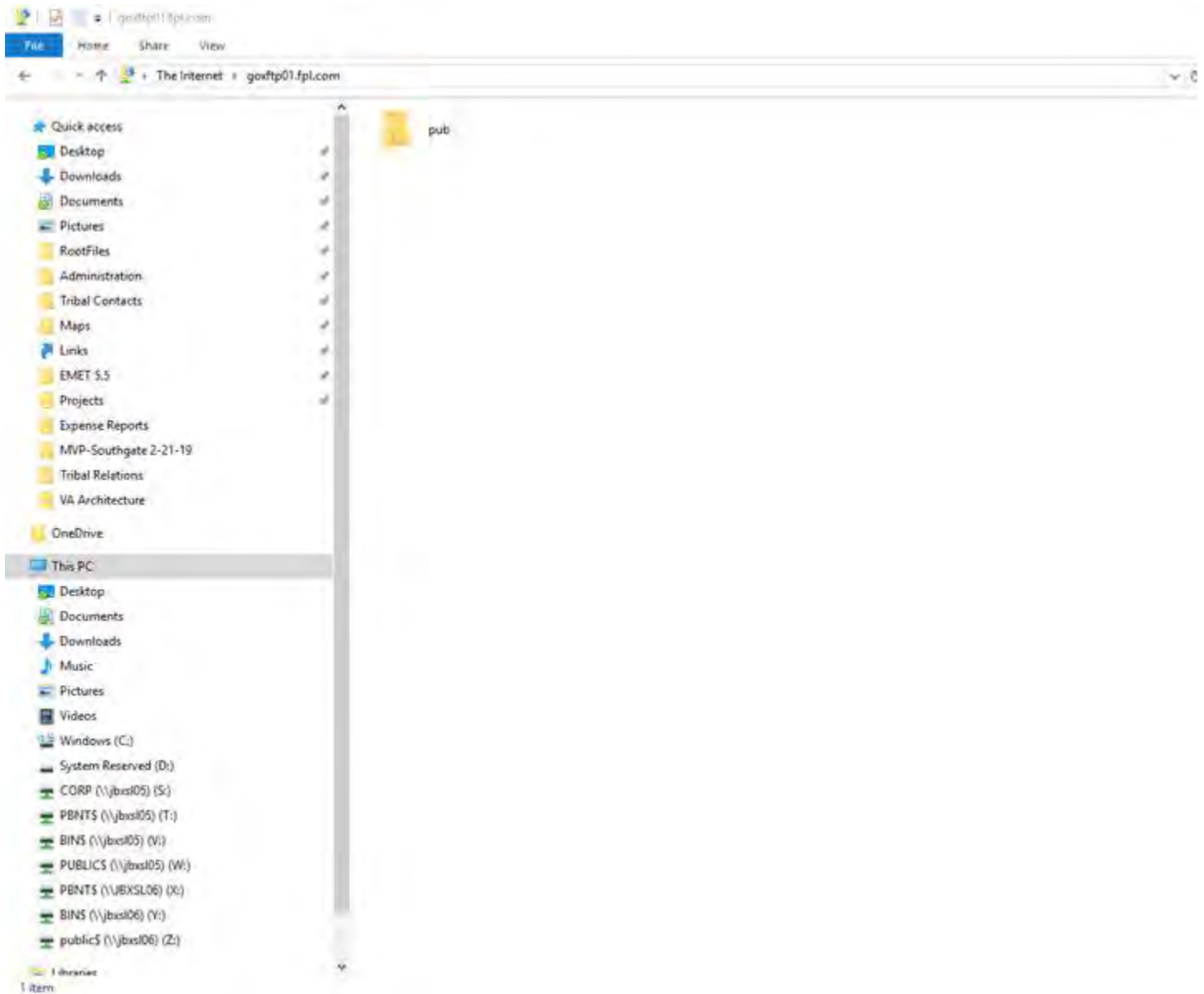
Project Manager - Tribal Relations
NextEra Energy
Phone (561) 691-2820
Cell (561) 385-9018




If you are using Windows, click on the  icon in the Taskbar at the bottom of your computer screen, the icon will appear with the words File Explorer to the right of the icon, click on the icon.

On the next page, enter <http://goxftp01.fpl.com> in the search bar.

This screen should appear -



Right click in the white space to the right and below  , Select Login As . . .

Enter User Name: CABUSTRelatnsRO and Password (case sensitive): nBEL?dca and ensure that the Log on anonymously box is not checked, then click

Log On. You should see three folders, two will be empty and the third MVP-Southgate 2-21-19 will contain all of the files posted to date.



MVP Southgate Project

Docket No. CP19-14-000

Attachment 87-1

March 2019

Table 87-1. MVP Emergency Services Correspondence

Name	Organization	Title	Contact Date
Terry Johnson	Alamance County Sheriff's Office	Sheriff	1/2/19
	Alamance County Sheriff's Office	Sheriff	8/9/2018
Cliff Parker	Alamance County Sheriff's Office	Chief Deputy	1/2/19
Toby Harrison	Haw River Police Department	Chief	1/8/19
Tony Velez	Graham Police Department	Lieutenant	1/9/2019
Grey Smith	Rockingham County Sheriff's Office	Captain	1/8/19
Samuel Page	Rockingham County Sheriff's Office	Sheriff	8/17/2019
Scott Thomas	Haw River Police Department	Assistant Chief	1/8/19
Steven Holmes	North Carolina State Bureau of Investigation		1/16/19
Mike Harper	North Carolina State Bureau of Investigation		1/16/19
David Smitherman	Pittsylvania County	County Administrator	4/11/2018
			5/3/2018
			5/31/2018
			7/9/2018
			8/8/2019
			9/25/2018
			10/16/2018
			10/30/2018
			1/9/2019
			2/1/2019
Vayden Hunt	Pittsylvania County	Attorney	7/9/2018
			10/30/2018
Chris Slempp	Pittsylvania County	EMS Director	2/4/2019
			2/11/2019
Michael Taylor	Pittsylvania County Sheriff's Department	Sheriff	6/21/2018
			6/25/2018
			2/4/2019
Donald (Don) Motley	Pittsylvania County Sheriff's Department	Sheriff Major	2/4/2019
Jason Sparks	Pittsylvania County Sheriff's Department	Sheriff Captain	2/4/2019
Adam Metzger	Virginia State Police	Sergeant Major	2/4/2019
Brandon Long	Virginia State Police	1st Sergeant	2/4/2019



MVP Southgate Project

Docket No. CP19-14-000

Attachment 88-1

March 2019



MVP Southgate Project

Traffic and Transportation Management Plan

Revision 1

March 2019

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1.0 INTRODUCTION

Mountain Valley Pipeline, LLC (“Mountain Valley”) has developed this Traffic and Transportation Management Plan to describe the measures the MVP Southgate Project (“Project” or “Southgate Project”) and their Contractors will take to minimize potential impacts on state and local roadways during the construction of the Project. This plan outlines traffic impact minimization measures, noxious weed control measures, and dust control methods that will be used on the Project to reduce impacts during construction.

Operations and maintenance activities will be conducted with light vehicles at very few occasions that should have no impact to roadways and traffic once the project is in-service.

1.1 Traffic Impacts

Prior to construction, the Project will obtain applicable Federal, State/Commonwealth, and local road use and crossing permits, as required. The Project personnel will comply with all permit requirements and conditions to provide for public safety and minimize impacts on public roads. Copies of this *Traffic and Transportation Management Plan* and applicable road use and crossing permits will be provided to the appropriate personnel and maintained at each Contractors’ field office.

Increased temporary traffic from Project-related activities will include transportation for construction workers in light and heavy-duty trucks, construction equipment (e.g. tractor trailers hauling machinery and materials), and truck deliveries. Prior to construction, the Project will determine the number of workers’ cars, equipment, and trucks that would use local roads and commuting periods. The Project will establish routes to and from the Project work areas to ensure that traffic impacts are minimized. These established routes will be provided to the Contractors’ and utilized during construction.

The Southgate Project’s Traffic Coordinator will consult with State and local agencies regarding detour routes, speed/load limits, and other use limitations, conditions, or restrictions on the roads that will be utilized during construction. Before the start of construction, the Project will work with these agencies to obtain the most up-to-date traffic information for the roadways in the Project area as well as ongoing road reconstruction or improvement projects in the vicinity of the pipeline route and facilities area. Where local, private roadways will be affected, the Project will coordinate with landowners and lessees of properties to mitigate potential impacts on those roads. Similarly, where roads on public lands will be affected, the Project will coordinate with the appropriate managing agency to mitigate potential impacts on roads or implement required traffic and transportation procedures. As discussed further in the following sections, the Project will place and maintain traffic control measures, such as flag persons, warning signs, lights, and/or barriers, as appropriate, to ensure the safety of construction workers and the public and to minimize traffic congestion. The Project will maintain traffic flow and emergency vehicle access on roadways with traffic control personnel or detour signs, where necessary. The Project’s Traffic Coordinator will work with local law enforcement, fire departments, and emergency medical services to coordinate

access for effective emergency response during construction. Contractors will be directed to comply with local weight limitations and restrictions on area roadways.

The Southgate Project strives to mitigate the increase in construction-related truck traffic on local roads shared with community and school buses in suburban and more densely populated rural areas. Key components to a successful community partnership include:

- Central point of command for construction traffic route plan. The Project will have a Traffic Coordinator reporting to the Safety Program Manager or Construction Manager responsible for maintaining traffic related plans, procedures, records, and documents.
- School bus curfews. Often times construction vehicles can pose concern when school buses are traveling their established routes. The community expects for their children to have safe and timely travel to and from school. The Project will work with the governing School Districts or the School Transportation Department in the project area to identify the bus routes and times. To the extent practicable, construction traffic will be limited or refrained during the bus route times with a published school bus route curfew time period.
- Speed enforcement. In more rural areas, law enforcement is often not staffed to handle a sudden increase in traffic. Establishing a third-party contractor to assist in monitoring the speed of the route not only keeps contractor and the public safe but lends accountability to the Project. Inevitably, contractors will end up off of bonded routes. The Traffic Coordinator will be able to actively monitor these issues and reduce unbonded travel that can become costly if damage occurs. The Coordinator can also be useful in diffusing potential hostile situations with neighbors and landowners.

All impacts shall be within the guidelines of all applicable agencies, as well as approval from landowners. A list of state and county contacts is provided in the table below. Once construction is complete, the Project will restore all roads back to their original level of service or better, unless the Project is directed otherwise in writing by the landowner or regulatory agency. Pre-construction video will be used to document the roadway condition prior to Project usage.

Virginia County, State Requirements			
	Phone	Website	Contact Name/Position
State Agency			
Virginia Department of Transportation (VDOT)	(540) 381-7194	http://www.virginiadot.org/	Paul Brown, Area Land Use Engineer
Virginia County			
Pittsylvania	(434) 432-7974	http://pittsylvaniacountyva.gov/	Greg Sides, Assistant County Administrator

North Carolina County, State Requirements			
	Phone	Website	Contact Name/Position
State Agency			
North Carolina Department of Transportation (NCDOT)	(919) 707-2500 (336) 487-0000	https://www.ncdot.gov/Pages/default.aspx	Chief Engineer, Tim M. Little, PE. Mike Mills, PE, Division 7 Engineer
North Carolina County			
Rockingham	(336) 342-8101	https://www.co.rockingham.nc.us/	Lance L. Metzler, County Manager
Alamance	(336) 228-1312	https://www.alamance-nc.com/	Bryan Hagood, County Manager

2.0 PIPELINE ROAD CROSSINGS

The Southgate Project will construct road and highway crossings in accordance with the permit requirements and the construction drawings for the crossing. No work on any such crossing shall be started before obtaining all applicable permits from the regulatory agencies. The Project will strive to maintain single lane traffic on all roads and shall provide flagmen, road signs and all other signaling required by the governing authority to supervise the flow of traffic. In the event a roadway needs to be closed and traffic detoured, the Project will work with all applicable agencies and expedite all work to mitigate inconveniences to the public. The Project will provide barricades, warning signs, flares, lanterns, flagmen and such other protective measures required to maintain traffic and to safeguard the public at all times.

Any damage to paved or blacktop roads shall be repaired per specifications provided by the regulatory agencies. Road surfaces other than hard surface roads (e.g., paved, blacktop, or concrete) shall be backfilled in well-tamped 6-inch layers and shall be finished with a well-tamped surface matching the existing road. If flowable fill is used, it will be in accordance with the appropriate mix per agency specifications. For all types of crossings, additional or other limitations may be provided by the governing municipality and must prevail.

At the end of each workday, the Southgate Project will make passable any open-cut driveways for ingress and egress. This may be accomplished by using steel plates. Any and all steel plates used for such purposes shall be properly pinned (i.e., secured in place) and ramped on each end to allow traffic flow. The backfilling road crossings shall be performed immediately after the pipe is installed and in accordance with requirements established by the applicable permit.

3.0 CONSTRUCTION TRAFFIC

An increase in traffic to local and state roads will be expected throughout the day between the hours of 6:00 a.m. and 7:00 p.m. or sunset, whichever is later. Emergencies or other designated construction activities may necessitate nighttime work. The temporary traffic will include transportation for construction workers in light and heavy duty trucks, as well as tractor trailers hauling machinery and materials. Prior to construction, the Project will determine locations of commuting workers collection points (it is anticipated the majority of the worker collection points will be the permitted Contractor Yards), and bus routes and associated traffic impacts. Impacts are expected to be minor and short term because construction spreads and personnel will be geographically dispersed and personnel will commute to and from work areas in early morning and late evening during nonpeak traffic hours. Traffic will be entering and leaving off-site locations such as laydown yards, right-of-way and additional temporary workspace for the purpose of pipeline construction, hauling material and roadway maintenance. Once the material and heavy equipment are placed on the right-of-way, construction equipment will move in a linear manner along the right-of-way as work progresses, minimizing traffic on local roads. The amount of equipment moved by hauling from site to site will be reduced due to the accessibility created by the construction right-of-way.

The Southgate Project may make road improvements at areas that are not conducive to heavy hauling and large traffic volume, in addition to maintaining all bonded roads during construction, and finally returning the roads back to their original or better level of service, meaning their original width and length, unless the Project is directed otherwise in writing by the landowner or state agency.

4.0 NOXIOUS WEEDS

To prevent noxious weeds from transporting along roadways, the Southgate Project developed the following measures:

- The prompt seeding and revegetation of areas of disturbed soils with certified weed-free seed.
- Encourage the cleaning of equipment and vehicles prior to entering or leaving each management area. (Pressure wash in a designated area only.)
- Minimize soil disturbance, where possible.
- Use certified weed-free mulch/straw for erosion control.

5.0 FUGITIVE DUST CONTROL

Dirt and gravel during construction periods in dry weather can create an inhospitable environment for neighbors and workers. The Southgate Project developed the following fugitive dust control measures to address this issue.

Implementation of construction and restoration best management practices and operational controls will be used to mitigate fugitive dust emissions. The Project's earth disturbance permit will outline specific practices that control fugitive dust, including a construction sequence; use of rock construction entrances; and temporary soil stabilization methods. Operational controls are also implemented, including the use of a reduced speed limit on unpaved access roads as well as sweeping/vacuuming paved roadways when Project-related soils are tracked out onto paved surfaces.

Wet suppression, using water, is the predominate method of suppressing fugitive dust on unpaved roads and gravel pads as it causes finer materials to adhere into larger particles. Increasing the moisture content of the finer materials may be accomplished either naturally or mechanically. Moisture content of unpaved road surfaces can be naturally increased through rainfall. Moisture content can also be increased mechanically through the application of water. The amount of water required to sufficiently control fugitive dust emissions is dependent on the characteristics of materials (e.g., surface moisture content), ambient conditions (e.g., rainfall, humidity, temperature), activities occurring in the area (e.g., vehicle traffic, vehicle weight, speeds).

The following measures will be taken to reduce fugitive dust from operations:

- Fugitive dust emissions from vegetation removal, clearing and grading, cutting and filling, topsoil removal, trenching, backfilling and stockpile storage will be controlled to a great extent by following the construction sequencing and disturbing limited areas at a time;
- Fugitive dust emissions generated by motorized equipment and miscellaneous vehicle traffic will be controlled by wet suppression as necessary;
- Fugitive dust emissions from paved roads will be controlled with a combination of water trucks, power washers, sweeping and/or vacuuming. If necessary, additional potential sources of water for dust control may include other municipal systems, groundwater supply wells, and/or approved surface waters;
- Track out of loose materials will be controlled using rock construction entrances on access roads that begin at a junction with paved roads; and
- When environmental conditions are dry, inspection of dust control measures will be conducted daily.

6.0 INSPECTION, MONITORING, AND RECORD KEEPING

The construction contractor will implement the dust control measures specified in this plan. All construction personnel will be informed of the measures in this plan. Environmental inspectors will have primary responsibility for monitoring and enforcing the implementation of dust control measures by the construction contractor. The inspectors will also be responsible for ensuring that these measures are effective and proper documentation is maintained. When environmental conditions are dry, inspection of dust control measures will be conducted daily, and the environmental inspectors will be responsible for recording the following information on a daily basis:

- weather conditions, including temperature, wind speed and wind direction;
- number of water trucks in use;
- incidents where dust concentration is such that special abatement measures must be implemented;
- condition of soils (e.g., damp, crusted, unstable) on the right-of-way and other construction sites;
- condition of soils (e.g., damp, crusted, unstable) on access roads;
- condition of track-out pads;
- overall status of dust control compliance.

This information will be incorporated into the environmental inspector's daily report, and significant instances of non-compliance with the plan will be reported to the Construction Manager as soon as they are discovered.

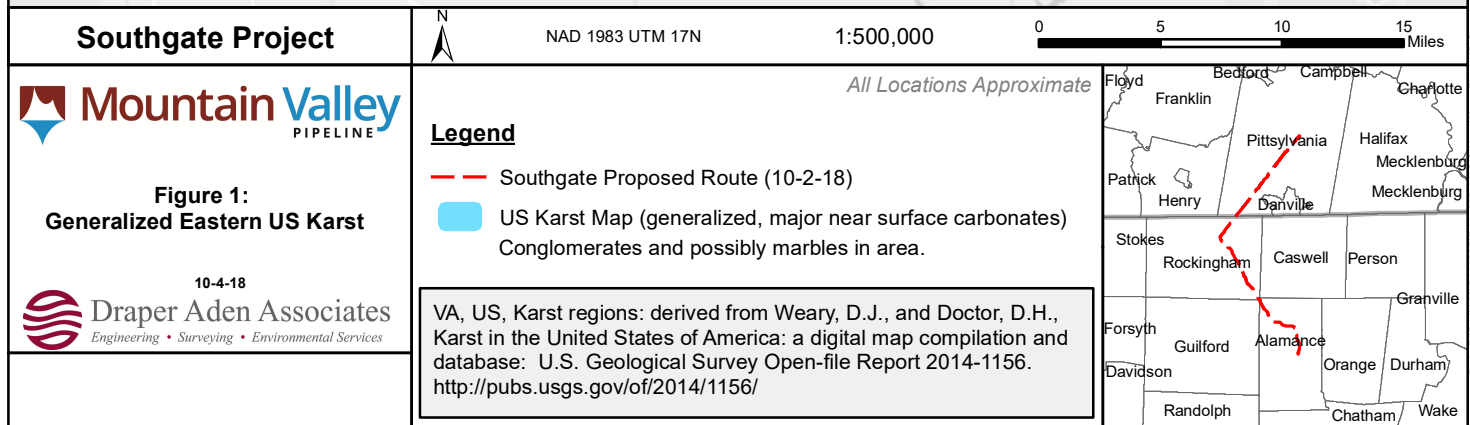
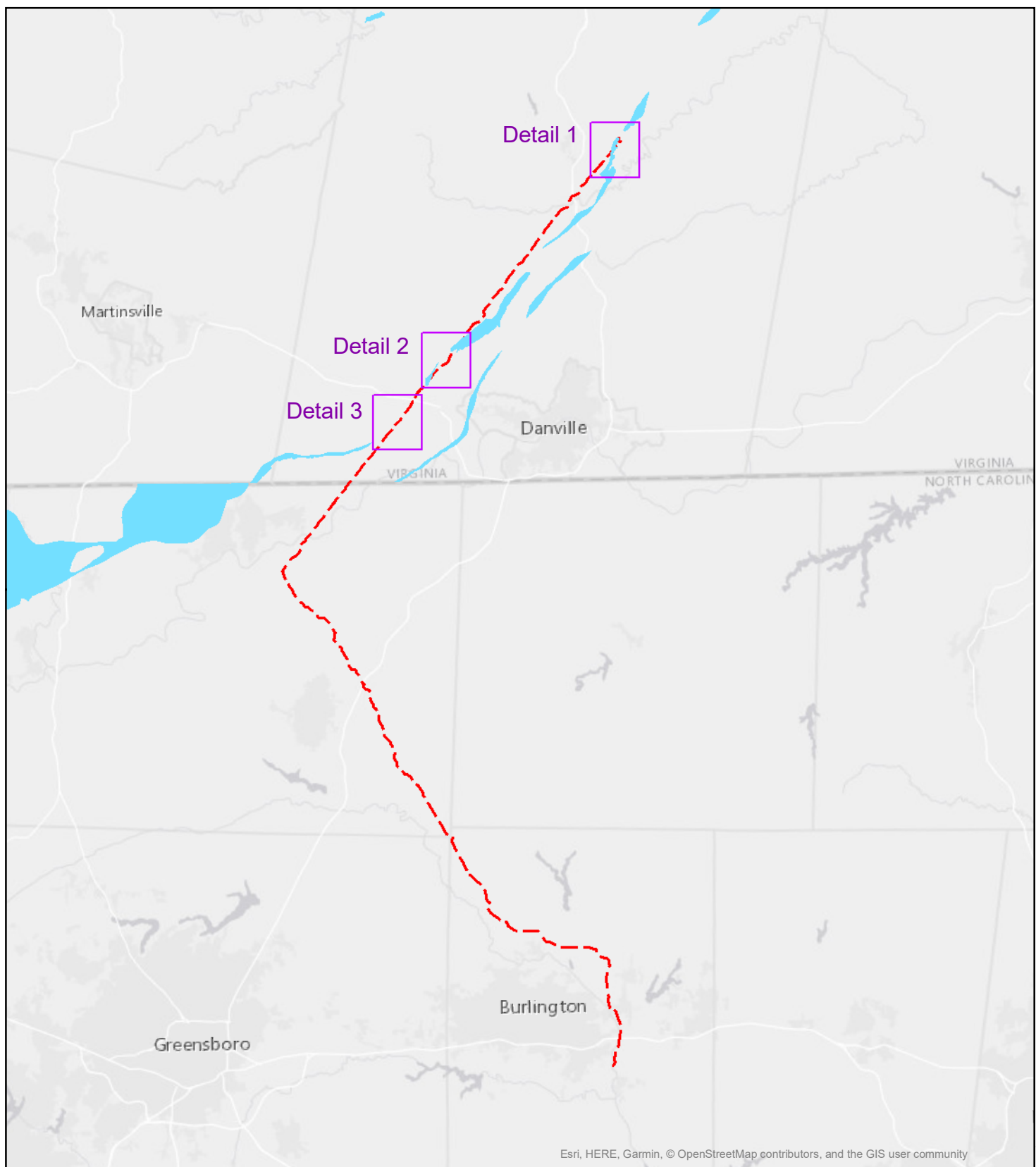


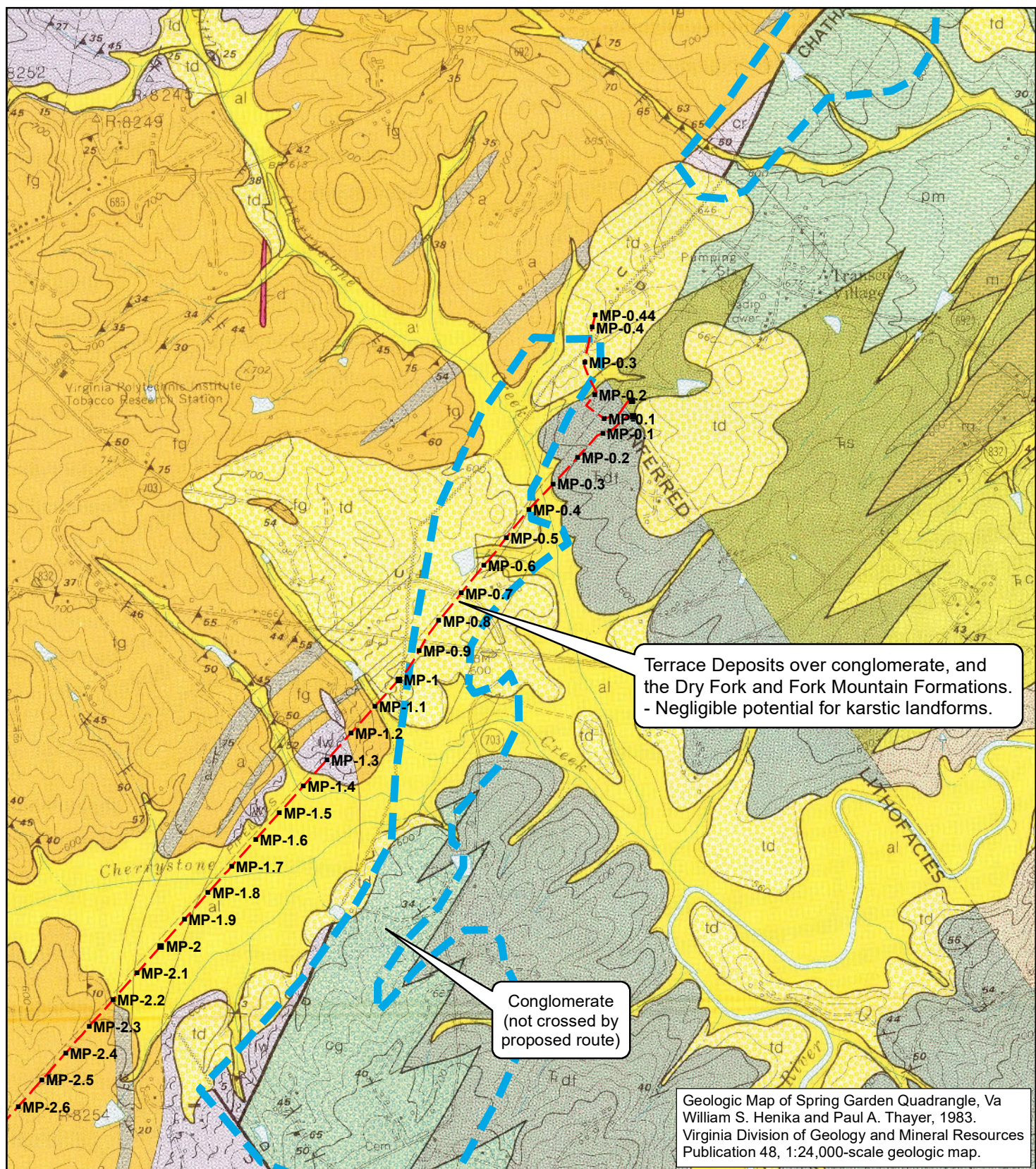
MVP Southgate Project

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Attachment 97-1

March 2019





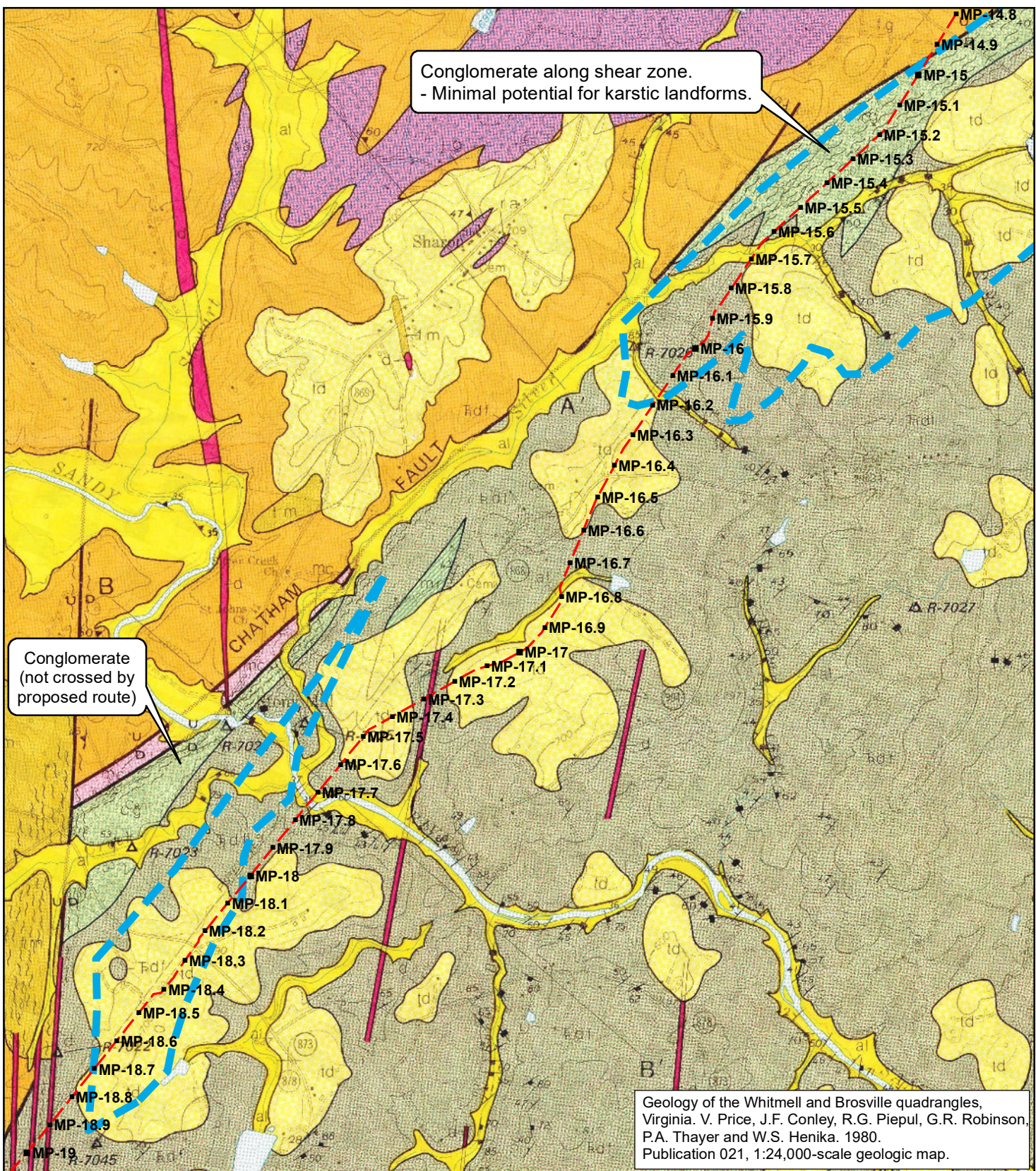
Southgate Project



**Figure 2:
Karstic Potential, Detail 1**

10-4-18





Southgate Project



**Figure 3:
Karstic Potential, Detail 2**

10-4-18



NAD 1983 UTM 17N

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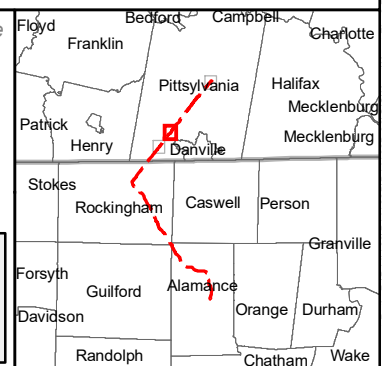
0 2,000 4,000 Feet

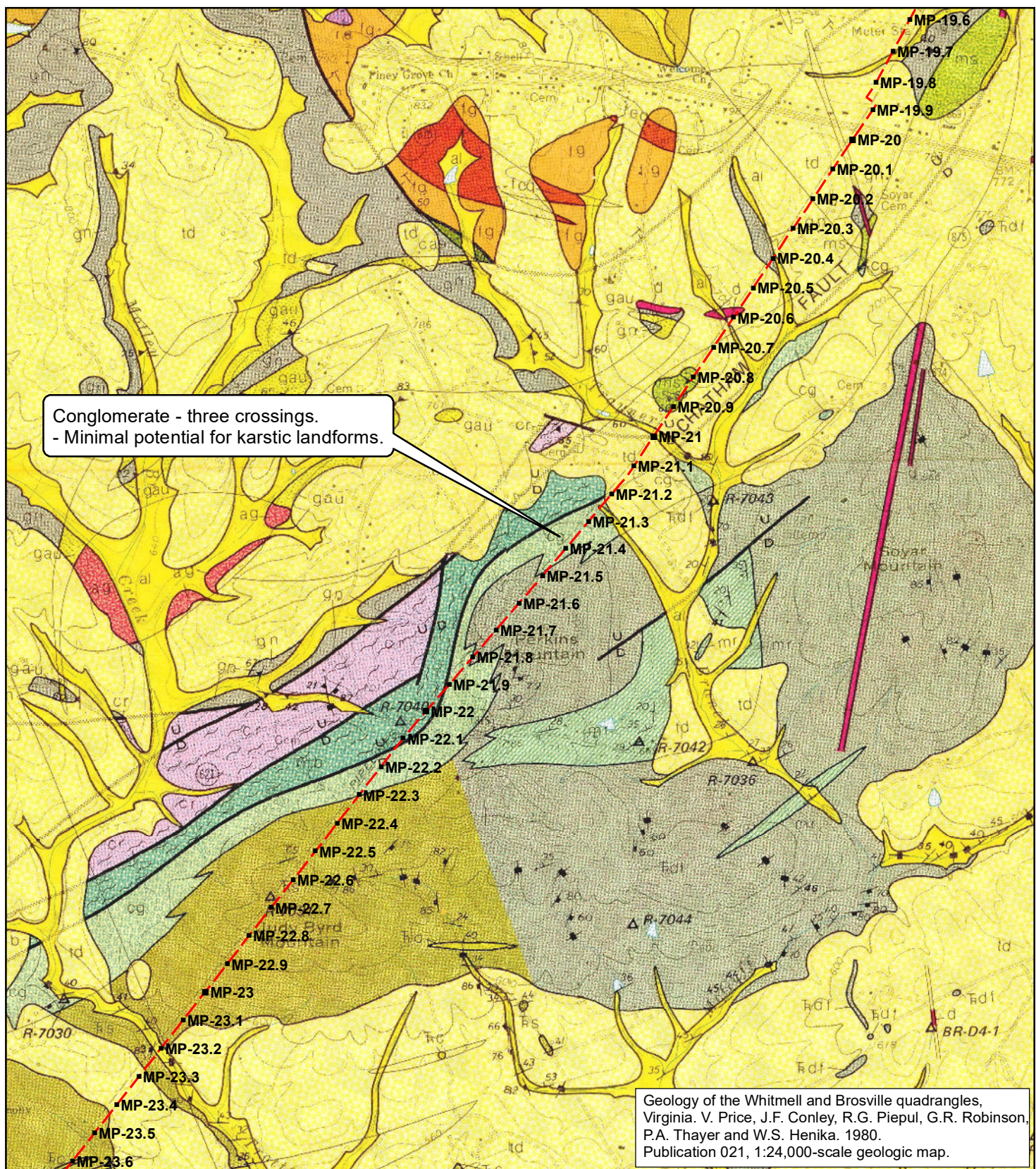
All Locations Approximate

Legend

- Southgate Proposed Route (10-2-18)
- US Karst Map (generalized, major near surface carbonates)
Conglomerates and possibly marbles in area.
Not accurate at local scale.

VA, US, Karst regions: derived from Weary, D.J., and Doctor, D.H.,
Karst in the United States of America: a digital map compilation and
database: U.S. Geological Survey Open-file Report 2014-1156.
<http://pubs.usgs.gov/of/2014/1156/>





Southgate Project



**Figure 4:
Karstic Potential, Detail 3**

10-4-18



NAD 1983 UTM 17N

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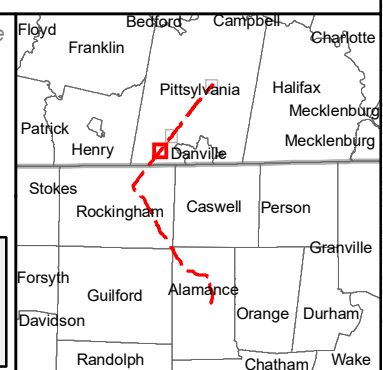
4,000 Feet

Legend

- Southgate Proposed Route (10-2-18)
- US Karst Map (generalized, major near surface carbonates)
Conglomerates and possibly marbles in area.
Not accurate at local scale.
*Not represented at this location.

VA, US, Karst regions: derived from Weary, D.J., and Doctor, D.H.,
Karst in the United States of America: a digital map compilation and
database: U.S. Geological Survey Open-file Report 2014-1156.
<http://pubs.usgs.gov/of/2014/1156/>

All Locations Approximate



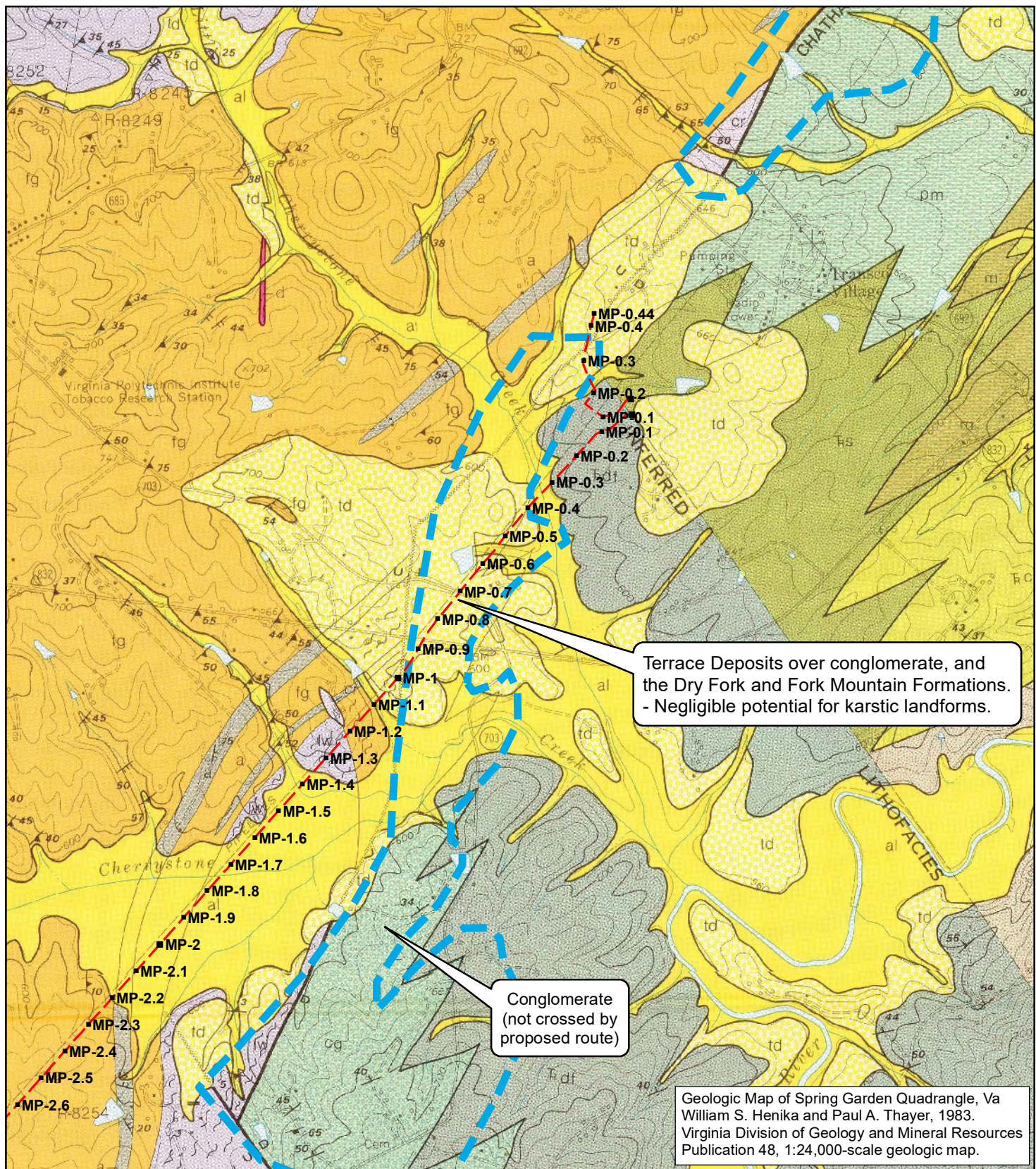


MVP Southgate Project

Docket No. CP19-14-000

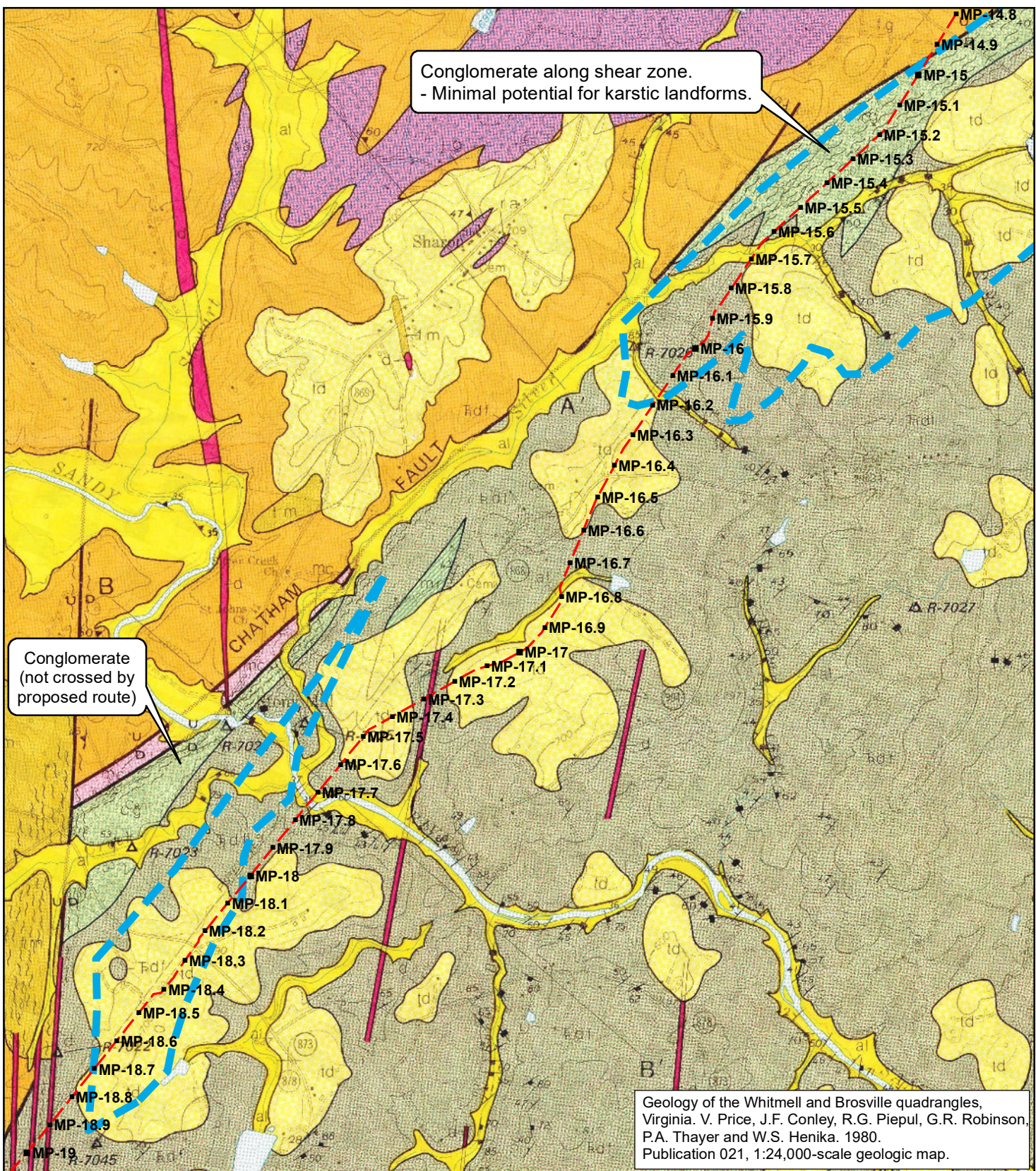
Attachment 98-1

March 2019



Geologic Map of Spring Garden Quadrangle, Va
William S. Henika and Paul A. Thayer, 1983.
Virginia Division of Geology and Mineral Resources
Publication 48, 1:24,000-scale geologic map.

<p>Southgate Project</p>	<p>NAD 1983 UTM 17N 1:24,000 0 2,000 4,000 Feet</p>	<p>0 2,000 4,000 Feet</p>
<p>Mountain Valley PIPELINE</p> <p>Figure 2: Karstic Potential, Detail 1</p> <p>10-4-18 Draper Aden Associates Engineering • Surveying • Environmental Services</p>	<p>Legend</p> <p>— Southgate Proposed Route (10-2-18)</p> <p>US Karst Map (generalized, major near surface carbonates) Conglomerates and possibly marbles in area. Not accurate at local scale.</p> <p>VA, US, Karst regions: derived from Weary, D.J., and Doctor, D.H., Karst in the United States of America: a digital map compilation and database: U.S. Geological Survey Open-file Report 2014-1156. http://pubs.usgs.gov/of/2014/1156/</p>	<p><i>All Locations Approximate</i></p>



Southgate Project



**Figure 3:
Karstic Potential, Detail 2**

10-4-18



NAD 1983 UTM 17N

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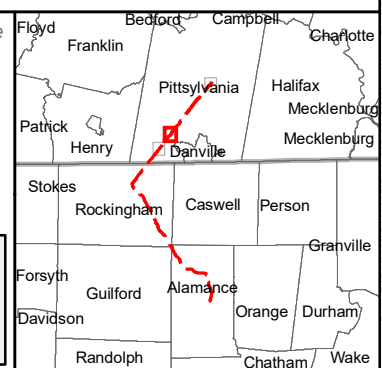
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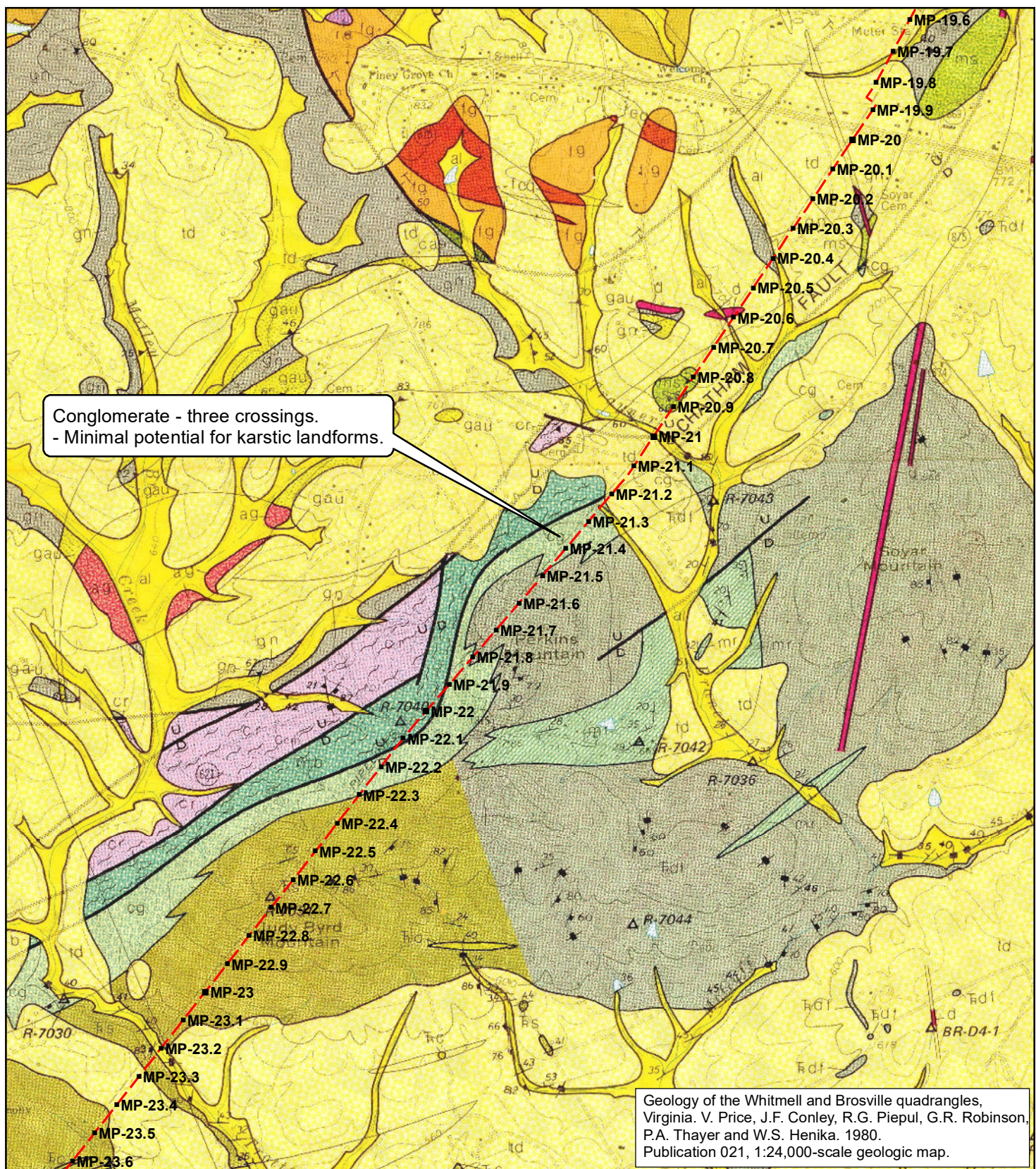
Legend

- Southgate Proposed Route (10-2-18)
- US Karst Map (generalized, major near surface carbonates)
Conglomerates and possibly marbles in area.
Not accurate at local scale.

VA, US, Karst regions: derived from Weary, D.J., and Doctor, D.H.,
Karst in the United States of America: a digital map compilation and
database: U.S. Geological Survey Open-file Report 2014-1156.
<http://pubs.usgs.gov/of/2014/1156/>

All Locations Approximate





Southgate Project



**Figure 4:
Karstic Potential, Detail 3**

10-4-18



NAD 1983 UTM 17N

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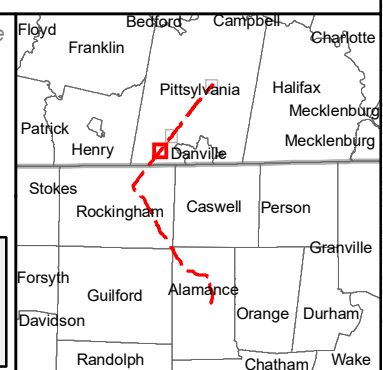
4,000 Feet

Legend

- Southgate Proposed Route (10-2-18)
- US Karst Map (generalized, major near surface carbonates)
Conglomerates and possibly marbles in area.
Not accurate at local scale.
*Not represented at this location.

VA, US, Karst regions: derived from Weary, D.J., and Doctor, D.H., Karst in the United States of America: a digital map compilation and database: U.S. Geological Survey Open-file Report 2014-1156.
<http://pubs.usgs.gov/of/2014/1156/>

All Locations Approximate





MVP Southgate Project

Docket No. CP19-14-000

Attachment 99-1

March 2019

Table 6.2-2				
Surficial Materials in the MVP Southgate Project Area				
Project Facilities	From Milepost	To Milepost	Surficial Geology Material	County / State
<i>Pipeline Facilities</i>				
H-605	0.00	0.14	Residual materials developed in sedimentary rocks, discontinuous	Pittsylvania County / Virginia
	0.14	0.44	Residual materials developed in bedrock, discontinuous	
H-650	0.00	0.37	Residual materials developed in bedrock, discontinuous	
	0.37	2.05	Residual materials developed in sedimentary rocks, discontinuous	
	2.05	15.18	Residual materials developed in igneous and metamorphic rocks	
	15.18	26.11	Residual materials developed in bedrock, discontinuous	
	26.11	52.60	Residual materials developed in bedrock, discontinuous	Rockingham County / North Carolina
	52.60	73.11	Residual materials developed in igneous and metamorphic rocks	Alamance County / North Carolina
<i>Aboveground Facilities</i>	Area (acres)	Near Milepost	Surficial Geology Material	County / State
Lambert Compressor Station / Interconnect / MLV 1	3.17	0	Residual materials developed in bedrock, discontinuous	Pittsylvania County / Virginia
MLV 2	0.02	7.4	Residual materials developed in igneous and metamorphic rocks	
MLV 3	0.02	18.3	Residual materials developed in bedrock, discontinuous	
LN 3600 Interconnect	0.66	28.2	Residual materials developed in bedrock, discontinuous	Rockingham County / North Carolina
T-15 Dan River Interconnect / MLV4	0.68	30.4	Residual materials developed in bedrock, discontinuous	

Table 6.2-2				
Surficial Materials in the MVP Southgate Project Area				
MLV 5	0.02	42.2	Residual materials developed in igneous and metamorphic rocks	Alamance County / North Carolina
MLV 6	0.02	55.1	Residual materials developed in igneous and metamorphic rocks	
MLV 7	0.02	68.2	Residual materials developed in igneous and metamorphic rocks	
T-21 Haw River Interconnect / MLV 8	0.66	73.1	Residual materials developed in igneous and metamorphic rocks	

Table 6-B-1

Bedrock Geology in the MVP Southgate Project Area

Project Facilities	From Milepost	To Milepost	Crossing Length (Miles)	County / State	Formation	Primary Rock	Secondary Rock	Map Symbol
<i>Pipeline Facilities</i>								
H-605	0.00	0.024	0.24	Pittsylvania County / Virginia	Upper Triassic	sandstone	siltstone	TRss
	0.24	0.36	0.12		Upper Triassic	conglomerate		TRc
	0.36	0.44	0.07		Upper Triassic	sandstone	siltstone	TRss
H-650	0.00	0.39	0.39		Upper Triassic	sandstone	siltstone	TRss
	0.39	0.95	0.56		Upper Triassic	conglomerate		TRc
	0.95	1.20	0.25		Proterozoic Z-Cambrian	mica schist	gneiss	Zfm
	1.20	1.86	0.66		Cambrian	granite		lw
	1.86	14.95	13.09		Proterozoic Z-Cambrian	mica schist	gneiss	Zfm
	14.95	16.19	1.24		Upper Triassic	conglomerate		TRc
	16.19	17.13	0.94		Upper Triassic	sandstone		TRs
	17.13	18.03	0.91		Upper Triassic	sandstone	siltstone	TRss
	18.03	18.70	0.67		Upper Triassic	conglomerate		TRc
	18.70	20.62	1.92		Proterozoic Z	biotite gneiss	amphibolite	Zau
	20.62	21.07	0.45		Proterozoic Z-Cambrian	mica schist	amphibolite	Zab
	21.07	22.35	1.28		Proterozoic - Paleozoic	mylonite	gneiss	my
	22.35	24.57	2.22		Upper Triassic	sandstone	siltstone	TRss
	24.57	26.11	1.54		Triassic	sandstone	siltstone	TRcs
	26.11	28.99	2.88	Rockingham County / North Carolina	Triassic	sandstone	mudstone	TRdp
	28.99	29.41	0.42		Triassic	mudstone	sandstone	TRdc
	29.41	31.11	1.70		Triassic	sandstone	mudstone	TRdp
	31.11	32.65	1.54		Cambrian/Late Proterozoic	biotite gneiss	mica schist	CZbg
	32.65	32.95	0.30		Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss	CZfg

Table 6-B-1

Bedrock Geology in the MVP Southgate Project Area

Project Facilities	From Milepost	To Milepost	Crossing Length (Miles)	County / State	Formation	Primary Rock	Secondary Rock	Map Symbol
	32.95	34.12	1.17		Cambrian/Late Proterozoic	biotite gneiss	mica schist	CZbg
	34.12	34.93	0.82		Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss	CZfg
	34.93	39.31	4.38		Cambrian/Late Proterozoic	biotite gneiss	mica schist	CZbg
	39.31	41.28	1.96		Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss	CZfg
	41.28	46.15	4.87		Cambrian/Late Proterozoic	biotite gneiss	mica schist	CZbg
	46.15	47.56	1.41		Permian/Pennsylvanian	granite		PPg
	47.56	48.35	0.80		Cambrian/Late Proterozoic	biotite gneiss	mica schist	CZbg
	48.35	49.29	0.94		Permian/Pennsylvanian	granite		PPg
	49.29	50.56	1.27		Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock	CZmv
	50.56	50.63	0.06		Cambrian/Late Proterozoic	phyllite	schist	CZph
	50.63	52.60	1.97		Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock	CZmv
	52.60	54.77	2.17	Alamance County / North Carolina	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock	CZmv
	54.77	55.22	0.45		Cambrian/Late Proterozoic	felsic metavolcanic rock	mafic metavolcanic rock	CZfv
	55.22	58.32	3.10		Cambrian/Late Proterozoic	metamorphic rock		CZg
	58.32	59.14	0.82		Paleozoic/Late Proterozoic	metamorphic rock		PzZg
	59.14	59.48	0.35		Cambrian/Late Proterozoic	metamorphic rock		CZg
	59.48	59.63	0.14		Paleozoic/Late Proterozoic	metamorphic rock		PzZg
	59.63	60.55	0.92		Cambrian/Late Proterozoic	metamorphic rock		CZg
	60.55	61.32	0.77		Paleozoic/Late Proterozoic	metamorphic rock		PzZg

Table 6-B-1

Bedrock Geology in the MVP Southgate Project Area

Project Facilities	From Milepost	To Milepost	Crossing Length (Miles)	County / State	Formation	Primary Rock	Secondary Rock	Map Symbol
	61.32	61.54	0.22		Cambrian/Late Proterozoic	metamorphic rock		CZg
	61.54	61.59	0.05		Paleozoic/Late Proterozoic	metamorphic rock		PzZg
	61.59	61.86	0.27		Cambrian/Late Proterozoic	metamorphic rock		CZg
	61.86	62.37	0.51		Paleozoic/Late Proterozoic	metamorphic rock		PzZg
	62.37	63.03	0.66		Cambrian/Late Proterozoic	metamorphic rock		CZg
	63.03	64.52	1.49		Paleozoic/Late Proterozoic	metamorphic rock		PzZg
	64.52	69.40	4.88		Cambrian/Late Proterozoic	metamorphic rock		CZg
	69.40	72.92	3.52		Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock	CZmv
	72.92	73.11	0.19		Paleozoic/Late Proterozoic	metamorphic rock		PzZg

Table 6-B-1 (Continued)

Bedrock Geology in the MVP Southgate Project Area

Aboveground Facilities							
	Area (acres)	Near Milepost	County / State	Formation	Primary Rock	Secondary Rock	Map Symbol
Lambert Compressor Station/ Interconnect/ MLV 1	3.17	0	Pittsylvania County / Virginia	Upper Triassic	sandstone	siltstone	TRss
MLV 2	0.02	7.4		Proterozoic Z-Cambrian	mica schist	gneiss	Zfm
MLV 3	0.02	18.3		Upper Triassic	conglomerate		TRc
LN 3600 Interconnect	0.66	28.2	Rockingham County / North Carolina	Triassic	sandstone	mudstone	TRdp
T-15 Dan River Interconnect/ MLV 4	0.68	30.4		Triassic	sandstone	mudstone	TRdp
MLV 5	0.02	42.2		Cambrian/Late Proterozoic	biotite gneiss	mica schist	CZbg

MLV 6	0.02	55.1	Alamance County / North Carolina	Cambrian/Late Proterozoic	felsic metavolcanic rock	mafic metavolcanic rock	CZfv
MLV 7	0.02	68.2		Cambrian/Late Proterozoic	metamorphic rock		CZg
T-21 Haw River Interconnect/MLV8	0.66	73.1		Paleozoic/Late Proterozoic	metamorphic rock		PzZg

Table 6-B-2

Shallow Bedrock Locations

Project Facilities	From Milepost	To Milepost	Crossing Length (mi)	County / State	Bedrock Depth (in)	Map Label	Formation Name	Primary Rock Type	Secondary Rock Type
Pipeline									
H-650	21.56	21.76	0.20	Pittsylvania County / Virginia	18.1	my	Proterozoic - Paleozoic	mylonite	gneiss
	22.20	22.25	0.05		18.1	my	Proterozoic - Paleozoic	mylonite	gneiss
	22.53	22.90	0.37		18.1	TRss	Upper Triassic	sandstone	siltstone
	22.96	23.10	0.14		29.1	TRss	Upper Triassic	sandstone	siltstone
	24.30	24.39	0.09		18.1	TRss	Upper Triassic	sandstone	siltstone
	24.59	24.82	0.23		29.1	TRcs	Triassic	sandstone	siltstone
	24.94	25.00	0.06		18.1	TRcs	Triassic	sandstone	siltstone
	25.46	25.68	0.22		18.1	TRcs	Triassic	sandstone	siltstone
	32.48	32.61	0.14	Rockingham County / North Carolina	15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	33.74	33.79	0.05		25.2	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	33.83	33.89	0.06		25.2	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	34.45	34.53	0.07		15	CZfg	Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss
	38.84	39.07	0.22		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	39.17	39.25	0.08		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	39.25	39.31	0.06		25.2	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	39.31	39.37	0.05		25.2	CZfg	Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss
	40.32	40.51	0.19		15	CZfg	Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss
	40.52	40.71	0.19		15	CZfg	Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss
	40.72	40.83	0.12		15	CZfg	Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss
	41.18	41.28	0.10		15	CZfg	Cambrian/Late Proterozoic	felsic gneiss	mafic gneiss
	41.28	41.32	0.04		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	42.50	42.63	0.14		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	42.88	42.93	0.05		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	43.75	44.21	0.46		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist

Table 6-B-2

Shallow Bedrock Locations

Project Facilities	From Milepost	To Milepost	Crossing Length (mi)	County / State	Bedrock Depth (in)	Map Label	Formation Name	Primary Rock Type	Secondary Rock Type
	45.57	45.96	0.39		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	46.24	46.52	0.28		15	PPg	Permian/Pennsylvanian	granite	
	47.01	47.56	0.55		15	PPg	Permian/Pennsylvanian	granite	
	47.56	47.73	0.17		15	CZbg	Cambrian/Late Proterozoic	biotite gneiss	mica schist
	53.74	53.77	0.02	Alamance County / North Carolina	29.9	CZmv	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock
	67.64	67.71	0.07		29.9	CZg	Cambrian/Late Proterozoic	metamorphic rock	
	67.93	67.97	0.04		29.9	CZg	Cambrian/Late Proterozoic	metamorphic rock	
	68.08	68.14	0.06		29.9	CZg	Cambrian/Late Proterozoic	metamorphic rock	
	68.87	68.91	0.04		29.9	CZg	Cambrian/Late Proterozoic	metamorphic rock	
	69.85	69.86	0.02		29.9	CZmv	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock
	70.98	71.04	0.06		29.9	CZmv	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock
	72.57	72.60	0.04		29.9	CZmv	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock
	72.67	72.67	0.00		29.9	CZmv	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock
	72.69	72.82	0.14		29.9	CZmv	Cambrian/Late Proterozoic	mafic metavolcanic rock	felsic metavolcanic rock

NOTE: No aboveground facilities occur in areas of shallow bedrock.



MVP Southgate Project

Docket No. CP19-14-000

Attachment 103-1

March 2019



MVP Southgate Project

Docket No. CP19-14-000

General Blasting Plan

Revised March 2019

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1 INTRODUCTION

The MVP Southgate Project General Blasting Plan (Plan) outlines the procedures and safety measures that the contractor(s) will adhere to while implementing blasting activities during the construction of the MVP Southgate Project. This Plan addresses blasting for the proposed pipeline route alignment and associated Project facilities filed with the Federal Energy Regulatory Commission (FERC or commission).

Mountain Valley Pipeline, LLC (Mountain Valley) is seeking a certificate of public convenience and necessity (certificate) from FERC pursuant to section 7C of the Natural Gas Act to construct and operate the MVP Southgate Project (Project). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance Counties, North Carolina. Mountain Valley proposes to construct approximately 73 miles of natural gas pipeline (known as the H-650 pipeline) to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the south eastern United States. The approximately 73 mile pipeline will be constructed of 24-inch diameter steel and welded pipe starting at milepost 0.00 and ending a milepost 31.0 at which point the pipeline diameter will be reduced to 16-inch diameter steel and welded pipe starting at milepost 31.0 and ending at milepost 73.11.

This plan includes a brief description of the pipeline alignment and overall physio geographic setting and bedrock geology in the vicinity of the Project. Information on shallow bedrock soils and bedrock outcroppings is taken from the Project's Resource Report 6 – Geological Resources. A map depicts the location of the Project's route is provided in Figure 1.2-1 Project overview Resource Report 1- General Project Description.

Information for blast and rip characteristics of the bedrock may be elevated, at least in a general sense, and applied toward an appropriate bedrock excavating method. The hard and intact nature of the un-weathered bedrock may possibly be removed by ripping or mechanical means.

Other geologic features may control the effects of blasting, rock fabric, or the arrangement of minerals determines intrinsic rock stressing, and thus influence rock excavation, joint spacing, bedding, and foliation also influence rock excavation.

2 PROJECT ALIGNMENT

The proposed FERC jurisdictional facilities described in this plan will consist of approximately 31.0 miles of 24-inch diameter pipeline and 42.1 miles of 16-inch diameter pipeline for a pipeline length of 73.1 miles; installing one new compressor station; aboveground sites for interconnections; main line block valves; launchers and receivers; control systems; and other facilities, as further described in Resource Report 1 - General Project Description.

The proposed pipeline, compressor stations, and interconnect facilities are summarized below:

- **Pipeline – Facilities would include:** Installation of approximately 73 miles of 24-inch and 16-inch diameter pipeline with a 1,440 pounds per square inch gauge (psig) maximum allowable operating pressure (MAOP), with portions of the pipeline paralleling existing buried natural gas pipelines. The pipeline will be located in the Virginia County of Pittsylvania and the North Carolina Counties of Rockingham and Alamance. The proposed pipeline will extend from the existing Mountain Valley Pipeline in Pittsylvania County, Virginia to its terminal at the T-21 Haw River Interconnect in Alamance County, North Carolina.
- **Compression** – The project will consist of the construction of one new compressor station, totaling approximately 28,915 horsepower of new compression.

- **Interconnections** – The Project will have a total of four (4) interconnections at Lambert Interconnect in Pittsylvania County, Virginia; LN 3600 Interconnect in Rockingham County, North Carolina; T-15 Dan River Interconnect in Rockingham County, North Carolina; and T-21 Haw River Interconnect in Alamance County, North Carolina.

3 GEOLOGIC SETTING

The proposed Project route begins in Pittsylvania County, Virginia and proceeds in a southeasterly direction through one Virginia county into North Carolina County of Rockingham and at the Dan River, the route turns southeasterly through the remainder of Rockingham county into Alamance County, North Carolina to the T-21 Haw River interconnect. Along the proposed project route, topography ranges from 470 to 880 feet above mean sea level (amsl) and crosses over several synclines and anticlines, as well as mineral resources that are discussed in detail by Resource Report 6-Geological Resources.

3.1 Regional Physiographic Setting

The proposed Project is located within the Piedmont Uplands Section of the Piedmont Physiographic Province. The project's physiographic settings discussed in detail by Resource Report 6-Section 6.2.1

3.2 Regional Geology

The Project will traverse geology of numerous timeframes and rock types, as discussed in detail in Resource Report 6 – Table 6-B-2 in Resource Report 6.

3.3 Active Faults

The Project alignment was evaluated for the presence of Quaternary-age faulting and the potential for ground movement and failure. The findings of the evaluation are discussed in detail in Resource Report 6–Section 6.5.

3.4 Areas of Shallow Bedrock

The pipeline will be installed to allow a minimum cover of 36 inches in areas of shallow bedrock. Therefore, the proposed Project area was evaluated for areas where bedrock might be encountered above a depth of 80 inches (Resource Report 6 - Appendix A Figure 6-13).

Areas where shallow bedrock may be encountered are discussed in detail in Resource Report 6 – Section 6.2 and Resource Report 7 – Appendix 7-A.

Where un-rippable subsurface rock is encountered, approved alternative methods of excavation will first be explored including: rock trenching machines, rock saws, hydraulic rams, jack hammers, blasting, etc. The alternative method to be used will be dependent on the proximity to: structures, pipelines, wells, cables, water resources, etc., and the capabilities of the alternative excavation method. Should blasting for pipeline grade or trench excavation or site development be necessary, care will be taken to prevent damage to underground structures (e.g., cables, conduits, and pipelines) or to springs, water wells, or other water sources. Blasting mats or padding will be used as necessary to prevent the scattering of loose rock (fly-rock). All blasting will be conducted during daylight hours and will not begin until occupants of nearby buildings, stores, residences, places of business, and farms have been notified. Where competent bedrock occurs in the stream bed, blasting may be used to reduce bedrock, so the trench can be excavated. Specific locations requiring blasting will be determined in the field, based on the limitations of the mechanical excavation equipment.

3.5 Mineral Resources

Mineral resources, quarries, and other mineral extraction along and within the proposed route of the pipeline and its related facilities are discussed in detail in Resource Report 6 – Section 6.4

No blasting is foreseen to occur within the limits of active mining areas or past mining areas, both surface and deep.

4 BLASTING SPECIFICATIONS

Blasting for pipeline facilities grade or trench excavation, compressor station and interconnect site development will be considered only after all other reasonable means of excavation have been evaluated and determined to be unlikely to achieve the required results. MVP may specify locations (foreign line crossings, nearby structures, etc.) where consolidated rock will be removed by approved mechanical equipment, such as rock trenching machines, rock saws, hydraulic rams, or jack hammers, instead of blasting. Areas where blasting may be required will be surveyed for features, such as Karst terrain, structures, utilities, and wells. The pre-construction condition of human-occupied buildings will be documented. Occupied buildings and their condition within 150 feet of the blasting area will be documented as to their pre-blast condition, as set forth in Appendix A - Pre-Blast Survey, and their condition after blasting, as set forth in Appendix E - Post-Blast Survey. MVP will provide verbal notification, followed by written documentation, to the buildings' occupant(s) of any blasting activity during both pre-construction and post-construction within 150 feet of a blast location.

If blasting is conducted within 150 feet of an active water well, as necessary, The Project will offer pre- and post-construction quality and yield testing for all water wells and water supply springs located within 150 feet of construction workspaces. Landowners will be contacted by an MVP representative, and a qualified independent contractor will conduct the testing. Wells within 150 feet of proposed Project work areas are tabulated in Resource Report 2 - Water Use and Quality.

MVP will evaluate, on a timely basis, landowner complaints regarding damage resulting from blasting to wells, homes, or outbuildings. If the damage is substantiated, MVP will negotiate a settlement with the landowner that may include repair or replacement.

Before any blasting occurs, Contractor will complete a project/site-specific blasting plan and provide it to MVP for review. No blasting shall be done without prior approval of MVP. In no event shall explosives be used where, in the opinion of MVP, such use will endanger existing facilities and/or structures. The Contractor shall obtain MVP approval, and provide forty-eight (48) hours' notice prior to the use of any explosives. MVP will provide at least a 24-hour notice to occupants of nearby (within 150 feet of blasting area) buildings, stores, residences, businesses, farms, and other occupied areas prior to initiating blasting operations. These notices will be verbal, followed by written documentation of the 24-hour notice.

4.1 Specifications

Blasting shall adhere to the following federal, state, county, township, local, and MVP standards and regulations. These standards and regulations are to be considered as the minimum requirements. Should there be a conflict between jurisdictions, standards, and regulations, the most stringent jurisdictions, standards, and regulations shall be followed.

These blasting requirements for the MVP Project are as follows:

- MVP Project, Resource Report 6 - Geological Resources, Docket No. PF18- 4-000.
- MVP, Design and Construction Manual, Design Standard, Pipeline, 4.11 Blasting Proximate to Buried Pipelines.

-
- MVP, Design and Construction Manual, Design Standard, Pipeline, 4.17 Blasting Activities During Construction.
 - 29 CFR 1926 Subpart U – Blasting and the Use of Explosives.
 - 27 CFR 555 Subpart K, U. S. Bureau of Alcohol, Tobacco, and Firearms.
 - 30 CFR 816.68 Mine Safety and Health Administration (MSHA).
 - 49 CFR Part 192 USDOT.
 - 27 CFR Part 55.
 - 30 CFR '715.19.
 - National Fire Protection Association 495.
 - U. S. Bureau of Mines Report of Investigations 8507.
 - Virginia 4 VAC25-130-816.11, 4 VAC25-130-816.64, 4 VAC25-110-210, and 3 VAC25-150-250.
 - North Carolina Chapter 33 Explosives and Fireworks 2006 North Carolina State Fire Prevention Code (Fire Code).

5 PRE-BLAST INSPECTIONS

As required by Resource Report 6 – Geological Resources, MVP shall conduct pre-blast surveys, with landowner permission, to assess the conditions of structures, wells, springs, and utilities within 150 feet of the proposed construction ROW. Should local or state ordinances require inspections in excess of 150 feet from the work, the local or state ordinances shall prevail. The survey will include, at a minimum:

- Informal discussions to familiarize the adjacent property owners with blasting effects and planned precautions to be taken on this project;
- Determination of the existence and location of site-specific structures, utilities, septic systems, and wells;
- Detailed examination, photographs, and/or video records of adjacent structures and utilities; and
- Detailed mapping and measurement of large cracks, crack patterns, and other evidence of structural distress.

The results will be summarized in a Pre-Blast Condition Report that will include photographs and be completed prior to the commencement of blasting. The pre-blast conditions will be documented with the information outlined by "Pre-Blast Survey, MVP Project". This Pre-Blast Survey Form is considered the minimum information needed. Appendix A presents the Pre-Blast Survey Form. The completion of the Pre-Blast Survey Form is in addition to all other local, county, township, state, or federal reporting/survey data collection and reports.

6 MONITORING OF BLASTING ACTIVITIES

During blasting, MVP contractors will take precautions to minimize damage to adjacent areas and structures. Precautions include:

- Dissemination of blast warning signals in the area of blasting.
- Backfilling with subsoil (no topsoil to be used) or blasting mats or other approved methods.
- Blast warning in congested areas, in shallow water bodies, or near structures that could be damaged by fly-rock.
- Use of matting or other suitable cover, as necessary, to prevent fly-rock from damaging adjacent protected natural resources.
- Posting warning signals, flags, and/or barricades.
- Following Federal, State, Local, and MVP procedures and regulations for safe storage, handling, loading, firing, and disposal of explosive materials.
- Manning adjacent pipelines at valves for emergency response, as appropriate.
- Posting of portable signage, portable barricades, and visual survey of the blast area access ways to prevent unauthorized entrance into the blast zone by spectators and/or intruders.
- Maintain communications between all persons involved for security of the blast zone during any and all blasting/firing.

Excessive vibration will be controlled by limiting the size of charges and by using charge delays, which stagger each charge in a series of explosions.

If the Contractor must blast near buildings, structures, or wells, a qualified independent Contractor will inspect structures or wells within 150 feet, or farther if required by local or state regulations, of the construction right-of-way prior to blasting, and with landowner permission. Post-blast inspections by company's representative will also be performed, as warranted. All blasting will be performed by registered blasters and monitored by experienced blasting inspectors. Recording seismographs will be installed by the Contractor at selected monitoring stations under the observation of MVP personnel. During construction, the Contractor will submit blast reports for each blast and keep detailed records as described in Section 7.10.

As appropriate, effects of each discharge will be monitored at the outer limits of the construction right of way and closest adjacent facilities by seismographs.

If a charge greater than eight pounds per delay is used, the distance of monitoring will be in accordance with the U. S. Bureau of Mines Report of Investigations 8507.

To maximize its responsiveness to the concerns of affected landowners, MVP will evaluate all complaints of well or structural damage associated with construction activities, including blasting. A toll-free landowner hotline will be established by MVP for landowners to use in reporting complaints or concerns. In the unlikely event that blasting activities temporarily impair a water well, MVP will provide alternative sources of water or otherwise compensate the owner. If well or structural damage is substantiated, MVP will either compensate the owner for damages to the structure and well, or arrange for a new well to be drilled.

7 BLASTING REQUIREMENTS

MVP has standard practices for blasting operations, as outlined by Sections 1.0 and 4.0 of this Blasting Plan. The potential for blasting along the pipeline to affect any wetland, municipal water supply, waste disposal site, well, septic system, spring, or pipelines will be minimized by controlled blasting techniques and by using mechanical methods for rock excavation as much as possible. Controlled blasting techniques have been effectively employed by MVP and other companies to protect active gas pipelines within 15 feet of trench excavation. The following text presents details of procedures for powder blasting.

7.1 General Provisions

- The contractor will provide all personnel, labor, and equipment to perform necessary blasting operations related to the work. The Contractor will provide a permitted blaster possessing all permits required by the local, county, township, and states in which blasting is required during construction, and having a working knowledge of state and local laws and regulations that pertain to explosives.
- Project blasting will be done in accordance with 27 CFR Part 55, 30 CFR '715.19, National Fire Protection Association 495 – Explosive Materials Code; the above referenced Specification; and all other state and local laws, when required; and regulations applicable to obtaining, transporting, storing, handling, blast initiation, ground motion monitoring, and disposal of explosive materials and/or blasting agents.
- The Contractor shall be responsible for supplying explosives and blasting materials that are perchlorate-free in order to eliminate the potential for perchlorate contamination of ground water. Further, the use of ammonium nitrate is prohibited. However, the use of emulsion type explosives, including those having ammonium nitrate as a constituent, such as Dyna 1062 Bulk Emulsion, shall be permitted, as these types of explosives are considered industry standard for area blasting related to large scale earthwork construction. In addition, detonators containing small amounts of perchlorate, such as Dyno Nobel NONEL EZ Dets, are an industry standard and shall be permitted.
- The contractor shall be responsible for securing and complying with all necessary permits required for the transportation, storage, and use of explosives. The Contractor shall be responsible for all damages or liabilities occurring on or off the right-of-way resulting from the use of explosives. When the use of explosives is necessary to perform the work, the Contractor shall use utmost care not to endanger life or adjacent property, and shall comply with all applicable laws, rules, and regulations governing the storage, handling, and use of such explosives. MVP will conduct a pre- and post- surficial leak survey along the centerline of each adjacent live pipeline to the planned blast area. The surficial leak survey will be conducted by MVP's employees and/or designated representative, with the surficial leak survey extending a minimum of 100- feet (both directions) past the limits of the planned blast area.
- Blasting activities will strictly adhere to all MVP, local, state, and federal regulations and requirements applying to controlled blasting and blast vibration limits regarding structures, underground gas pipelines, and underground utilities. In addition to following state and federal blasting guidelines, MVP will contact each governmental agency (if project is not undertaken within twelve months as of the date of this Blasting Plan) along the proposed route to determine local ordinances or guidelines for blasting (refer to Table 7.1.1).

**TABLE 7.1.1 MVP PROJECT
CONTACTS AND RELATED PERMITTING PRIOR TO BLASTING**

JURISDICTION	CONTACT	AGENCY	PERMIT/REGULATION
Virginia	Marshal R. Moore 276.415.9700	DMME Virginia Department of Mines, Minerals, and Energy	Permit and Notification
Virginia	Region 3 Marion Office 276.783.4860	DGIF Virginia Department of Game and Inland Fisheries	Notification: 48 hour notice
Virginia	Office: 804.371.0220 statefiremarshal@ vdfp.virginia.gov	SFMO Virginia State Fire Marshal's Office	Permit and Notification: 24 hour notice
Virginia	Anita Bradburn Realty Specialist Management Branch Huntington District USACE 304.399.5890	US Army Corps of Engineers	Notification: Blasting within 0.25-mile of Weston and Gauley Bridge Turnpike Trail
Virginia	Joby Timm Forest Supervisor O: 540.265.5118 C: 540.339.2523 jtimmm@fs.fed.us	US Forest Service	Notification: Blasting within 0.25-mile of the Jefferson National Forest
North Carolina	Matthew Gantt Engineering Supervisor 336-776-9654 matt.ganttencdeur.gov	NC DEQ	Permit and Notification Notice
North Carolina	Tonya Caddle Director- Planning and Inspection 336-342-8137 tcaddieco.rockingham.nc.us	Rockingham CO, NC	Permit and Notification Notice
North Carolina	Robert L. Key Director -Inspection 336-570-4060 Robert.key@alamance-nc.com	Alamance Co, NC	Permit and Notification Notice

The Construction Contractor will be made aware of all applicable procedures and local requirements, and it will ultimately be the Contractor's responsibility to notify officials and receive appropriate blasting permits and authorization.

Typically, local regulations require copies of the blasting Contractor's Certificate of Insurance and License. In some jurisdictions, a Certificate of Bond will also be required, as well as a qualified person hired to oversee the blasting procedure.

The MVP Chief Blasting Inspector (CBI) or designated representative shall have the opportunity to witness all rock excavations or other use of explosives. The Contractor shall conduct all blasting operations in a safe manner which will not cause harm to the existing pipelines and structures in the vicinity. If the CBI determines that any project blasting operations have been conducted in an unsafe manner, the CBI will notify the Contractor of the unsafe activity. If any further unsafe actions occur on the part of the blasting firm, the CBI will request the Contractor terminate the Contract of the blasting firm and hire another blasting company.

Any failure to comply with the appropriate law and/or regulations is the sole liability of the Contractor. The Contractor and the Contractor's permitted blaster shall be responsible for the conduct of all blasting operations, which shall be subject to inspection requirements.

A Blasting Fact Sheet will be distributed to landowners where blasting is proposed and affected landowners will be contacted prior to any blasting activities.

7.2 Storage Use at Sites

Explosives and related materials shall be stored in approved facilities required under the applicable provisions contained in 27 CFR Part 55, Commerce in Explosives. The handling of explosives may be performed by the person holding a permit to use explosives or by other employees under his or her direct supervision, provided that such employees are at least 21 years of age. While explosives are being handled or used, smoking shall not be permitted, and no one near the explosives shall possess matches, open light, or other fire or flame within 50 feet of the explosives, in accordance with OSHA requirements. Suitable devices or lighting safety fuses are exempt from this requirement. No person shall handle explosives while under the influence of intoxicating liquors or narcotics at any time during construction of the Project. Original containers or Class II magazines shall be used for taking detonators and other explosives from storage magazines to the blasting area. Partial reels of detonating cord do not need to be in closed containers, unless transported over public highways. Containers of explosives shall not be opened in any magazine or within 50 feet of any magazine. In opening kegs, or wooden cases, no sparking metal tools shall be used; wooden wedges and either wood, fiber or rubber mallets shall be used. Non-sparking metallic slitters may be used for opening fiberboard cases.

No explosive materials shall be located or stored where they may be exposed to flame, excessive heat, sparks, or impact.

Explosives or blasting equipment that are obviously deteriorated or damaged shall not be used. Explosive materials shall be protected from unauthorized possession and shall not be abandoned.

No attempt shall be made to fight a fire if it is determined the fire cannot be contained or controlled before it reaches explosive materials. In such cases, all personnel shall be immediately evacuated to a safe location and the area shall be guarded from entry by spectators or intruders.

No firearms shall be discharged into or in the vicinity of a vehicle containing explosive materials or into or in the vicinity of a location where explosive materials are being handled, used, or stored.

Contractor shall maintain a daily blast inventory record of all explosive materials transported (to and from blast area), used, and returned to off-site storage, when no storage is located on blast site.

7.3 Pre-Blast Operations

The Contractor is required to submit a planned schedule of blasting operations to the CBI or his designated representative for approval, prior to commencement of any blasting or pre-blast operation, which indicates the maximum charge weight per delay, hole size, spacing, depth, and blast layout. If blasting is to be conducted adjacent to an existing pipeline, approval must be received from the pipeline's Engineering Department. The Contractor shall provide this schedule to the CBI at least five working days prior to any pre-blast operation for approval and use. Where residences or other structures are within 150 feet of the blasting operation, the CBI may require notification in excess of five days. The blasting schedule is to include the blast geometry, drill hole dimensions, type and size of charges, stemming, and delay patterns and should also include a location survey of any dwelling or structures that may be affected by the proposed operation. Face material shall be carefully examined before drilling to determine the possible presence of unfired explosive material. Drilling shall not be started until all remaining butts of old holes are examined for unexploded charges, and if any are found, they shall be re-fired before work proceeds. No person shall be allowed to deepen the drill holes that have contained explosives.

Drill holes shall be large enough to permit free insertion of cartridges of explosive materials. Drill holes shall not be collared in bootlegs or in holes that have previously contained explosive materials. Holes shall not be drilled where there is a danger of intersecting another hole containing explosive material. Charge loading shall be spread throughout the depth of the drill hole or at the depths or rock concentration in order to obtain the optimum breakage of rock.

Loading and firing shall be performed or supervised only by a person possessing an appropriate blasting permit and license. All drill holes shall be inspected and cleared of any obstruction before loading. No holes shall be loaded, except those to be fired in the next round of blasting. After loading, all remaining explosives shall be immediately returned to an authorized magazine.

A maximum loading factor of 4.0 pounds of explosive per cubic yard of rock shall not be exceeded. However, should this loading fail to effectively break up the rock, a higher loading factor shall be allowed if the charge weight per delay is reduced by a proportional amount and approved by the CBI. The minimum safe distance from the blasting area to a live buried pipeline is placed at 10 feet measured horizontally from the edge of the blasting area to the outer edge of the affected pipeline. The site-by-site minimum safe distance between blasting areas and adjacent live natural gas pipelines will be calculated each time blasting is to occur using PIPEBLAST computer modeling program or other recognized industrial standards and applying the measured site conditions. The minimum safe distance and supporting calculations and site measurements are to be submitted for approval to MVP's CBI at least 48 hours before blasting is to occur.

All blasts will be monitored (Seismograph Monitoring-Transverse, Vertical, Longitudinal, PPV, and Acoustic) to ensure the peak particle velocity does not exceed the following specified maximum velocities:

- Four (4) inches per second for underground, welded, steel pipeline.
- Two (2) inches per second for underground, coupled, steel pipelines; above ground and underground structures; or waterwells.

The MVP Engineering Department may approve higher peak particle velocities in writing, given site-specific conditions.

The maximum amplitude of the elastic wave created by any blast shall not exceed 0.0636 inches.

The type of explosive and initiation system to be used is as follows:

7.3.1 Dyno Nobel Unimax TM (or equivalent)

An extra-gelatin dynamite with a specific gravity of 1.51 g/cc, a detonation rate of 17,400 f/s (unconfined) and a calculated energy of 1,055 c/g. The cartridge size will generally be 2" x 8" (1.25 lbs/cartridge) or 2" x 16" (2.50 lbs/cartridge).

7.3.2 Dyno Nobel Unigel TM (or equivalent)

A semi-gelatin dynamite with a specific gravity of 1.30 g/cc, a detonation rate of 14,200 f/s (unconfined) and a calculated energy of 955 c/g. The cartridge size will generally be 2" x 8" (1.15 lbs/cartridge) or 2" x 26" (2.30 lbs/cartridge).

7.3.3 Dyno Nobel Dynamax Pro TM (or equivalent)

A propagation-resistant dynamite, with a specific gravity of 1.45 g/cc, a detonation rate of 19,700 f/s (unconfined) and a calculated energy of 1,055 c/g. The cartridge size will generally be 2" x 8" (1.225 lbs/cartridge) or 2" x 16" (24.45 lbs/cartridge).

7.3.4 Dyno Nobel NONEL TM 17 or 25 Millisecond Delay Connectors or Dyno Nobel NONEL EZ Det TM (or equivalent)

A nonelectric delay detonator with a 25/350, 25/500, or 25/700 millisecond delay.

7.3.5 Dyno Nobel NONEL TM Nonelectric Shock Tube System Detonator (or equivalent)

The Shock Tube will be used to initiate all shots. The Shock Tube will be attached at one point only for initiation of the entire shot and will not be used for down hole priming.

7.3.6 Dyno Nobel 1062 Bulk Emulsion (or equivalent)

An emulsion/gel product commonly used for area blasting such as road alignments or large pads. It contains the following major components: ammonium nitrate (30 to 80% w/w, calcium nitrate, sodium nitrate, and No. 2 diesel fuel (1 to 8% w/w).

Each borehole shall be primed with NONEL EZ DefTM system. The total grains of the detonator system should be limited to prevent blowing stemming out of the drill hole. Boreholes shall be delayed with a minimum of 25 milliseconds ("ms"). Slightly longer delays may be used over steep hills with prior approval of the CBI. Primers shall not

be assembled closer than 50 feet (15.25 m) from any magazine. Primers shall be made up only when and as required for immediate needs.

Blasting shall not be permitted if any part of the live pipeline lies within the perimeter of the crater zone, regardless of size of the blast/shot. Crater zone shall be defined as a circle created by turning a radius along the ground surface equal to the length of the depth below the surfaces where the shot is placed.

Tamping shall be done only with wood rods without exposed metal parts, but non-sparking metal connectors may be used for jointed poles. Plastic tamping poles may be used, provided the authority having jurisdiction has approved them. Violent tamping shall be avoided.

Recommended stemming material shall consist of clean crushed stone with d50 – 3/8 inch, which will not bridge over like dirt and will completely fill voids in the hole.

When safety fuse is used, the burning rate shall be determined and in no case shall fuse lengths less than 120 seconds be used. The blasting cap shall be securely attached to the safety fuse with a standard ring type cap crimper.

Pneumatic loading of blasting agents in blast holes primed with electric blasting caps or other static-sensitive initiation systems shall comply with the following requirements:

- A positive grounding device shall be used for the equipment to prevent accumulation of static electricity;
- A semi-conductive discharge hose shall be used; and
- A qualified person shall evaluate all systems to assure they will adequately dissipate static charges under field conditions.

No blasting caps or other detonators shall be inserted in the explosives without first making a hole in the cartridge for the cap with a wooden punch of proper size or standard cap crimper.

After loading for a blast is completed, all excess blasting caps or electric blasting caps and other explosives shall immediately be removed from the area and returned to their separate storage magazines.

7.4 Discharging Explosives

Persons authorized to prepare explosive charges or conduct blasting operations shall use every reasonable precaution, including, but not limited to, warning signals, flags, barricades, or woven wire mats to ensure the safety of the general public and workmen.

The Contractor shall obtain MVP's approval and provide them at least 24-hour notice prior to the use of any explosives. The Contractor shall comply with local and state requirements for pre-blast notifications, such as the One-Calls of Virginia and North Carolina, which require a 72 hour, minimum, notice.

Whenever blasting is being conducted in the vicinity (within 150 feet) of gas, electric, water, fire alarm, telephone, telegraph, and other utilities, (above or below grade) the blaster shall notify the appropriate representatives of such utilities at least 24-hours, or as required by the utility, in advance of blasting. Verbal notice shall be confirmed with written notice. In an emergency, the local authority issuing the original permit may waive this time limit. MVP's CBI is to be notified, both verbally and copied, with the written notice for notifications.

Blasting operations, except by special permission of the authority having jurisdiction and MVP, shall be conducted during daylight hours. No blasting shall occur on Sundays or legal holidays except by special permission of the authority having jurisdiction and MVP

When blasting is done in congested areas or in proximity to a significant natural resource, structure, railway, highway, or any other installation that may be damaged, the blast shall be backfilled before firing or covered with a mat, constructed so it is capable of preventing fragments from being thrown. In addition, all other possible precautions shall be taken to prevent damage to livestock and other property and inconvenience to the property owner or tenant during blasting operations. Any rock scattered outside the right-of-way by blasting operations shall immediately be hauled off or returned to the right-of-way.

Precautions shall be taken to prevent accidental discharge of blasting caps from currents induced by lightning, adjacent power lines, dust and snow storms, or other sources of extraneous electricity. These precautions shall include:

- Suspension of all blasting operations and removal of all personnel from the blasting area during the approach and progress of an electrical storm; and
- The use of lightning detectors is mandatory.

No blast shall be fired until the blaster in charge has made certain that all surplus explosive materials are in a safe place, all persons and equipment are at a safe distance or under sufficient cover, and an adequate warning signal has been given.

No loaded holes shall be left unattended or unprotected. Explosive shall not be primed or fused until immediately before the blast. After each blasting sequence, the Blasting Contractor shall inspect the site for cut-offs and misfires. All explosives or blasting agents shall be verified as discharged prior to starting/resuming excavation.

Only the person making connections between the cap and fuse system shall fire the shot. All connections should be made from the bore hole back to the source of ignition. If there are any misfires while using cap and fuse, all persons shall remain away from the charge for at least 15 minutes. Misfires shall be handled under the direction of the person in charge of the blasting and the construction right-of-way shall be carefully searched for the unexploded charges.

Explosives shall not be extracted from a hole that has once been charged or has misfired unless it is impossible to detonate the unexploded charge by insertion of a fresh additional ~~primer~~.

7.5 Waterbody Crossing Blasting Procedures

Blasting should not be conducted within or near a stream channel without prior consultation and approval from the appropriate federal, state, and local authorities having jurisdiction to determine what protective measures must be taken to minimize damage to the environment and aquatic life of the stream. At a minimum, a five work day notice must be provided to the appropriate federal, state, and/or local authorities. In addition to the blasting permits a separate permit and approvals are required for blasting within the waters of the states of Virginia and North Carolina.

Rock drill or test excavation will occur within the limits of a flowing stream only after the streamflow has been redirected and maintained via dam and pump or flume crossing, as presented in Resource Report 2 - Section 2.3.1.4 Waterbody Crossing Methods. For those streams that have no flow at the time of rock drill or test excavation activities, the rock testing will be conducted in the streambed and the streambed disturbance created by the rock testing will be restored within the same day of disturbance.

Rock drill or test excavation and resulting blasting will only occur once the streamflow has been redirected and maintained via dam and pump or flume crossing method. For these crossings of flowing streams, work will commence immediately after the initial disturbance and continue until the stream crossing is completely installed and the streambed restored. Stream crossing methods and crossing mitigation measures are presented in Resource Report 2 – Section 2.3.

To facilitate planning for blasting activities for waterbody crossings, rock drilled or test excavations may be used in waterbodies to test the ditch-line during mainline blasting operations to evaluate the presence of rock in the trench-line. The excavation of the test pit or rock drilling is not included in the time window requirements for completing the crossing. For testing and any subsequent blasting operations, streamflow will be maintained through the site. When blasting is required, the FERC timeframes for completing in-stream construction begin when the removal of blast rock from the waterbody is started. If, after removing the blast rock, additional blasting is required, a new timing window will be determined in consultation with the Environmental Inspector. If blasting impedes the flow of the waterbody, the Contractor can use a backhoe to restore the stream flow without triggering the timing window. The complete waterbody crossing procedures are included in MVP's E&SCP.

MVP will immediately halt all construction activities if the loss of streamflow occurs after a blasting event. The construction contractor and MVP's Environmental Inspector will immediately evaluate the loss of water and develop a Contingency Plan to restore streamflow. This Contingency Plan will be provided to the local, state, and federal agencies having jurisdiction over the stream impacted, for their review and approval. Congruent with the contractor's and MVP's Environmental Inspector's evaluation, temporary emergency contingency measures will be employed to halt the loss of streamflow. Immediately upon the agencies' approval of the Contingency Plan, the contractor will implement the measures outlined in the agency-approved Contingency Plan.

The temporary emergency contingency measures and the agency-approved Contingency Plan measures will be implemented in accordance with Resource Report 2

- Section 2.4.1 Construction and Operation Impacts and Mitigation.

7.6 Karst Terrain Blasting Procedures

Karst Terrain Mitigation Plan has been developed for the Karst Terrain areas identified (Resource Report Appendix 6-Section 6.5.1 and Table 6.5.1). This Karst Terrain Mitigation Plan will be followed should any blasting be required for grade and trench excavation.

Blasting in a Karst Terrain will only be considered after all other reasonable means of excavating have been evaluated and determined to be unlikely to achieve the required grade.

Blasting should not be conducted within or near a Karst Area without MVP's Karst Specialist (KS) review and the Karst Blasting Plan obtaining approval from the appropriate federal, state and local authorities having jurisdiction to determine protective measures that must be taken to minimize damage to the Karst Terrain. At a minimum, the individual Karst Terrain Blasting Plan will be provided to the appropriate federal, state and local authorities for review and approval five working days prior to conducting the blasting.

Blasting will be conducted in a manner that will not compromise the structural integrity of the karst hydrology of known karst structures. If rock is required to be blasted to achieve grade, then the following parameters will be adhered to:

- The excavation will be carefully inspected for any voids, openings or other tell-tale signs of solution activity by MVP's KS.
- If the rock removal intercepts an open void, channel, or cave, the work in that area will be stopped until a remedial assessment can be carried out by MVP's KS.
- All use of explosives will be limited to low-force charges that are designed to transfer the explosive force only to the rock which is designated for removal (e.g., maximum charge of 2 inches per second ground acceleration).

7.7 Wetland Crossing Blasting Procedures

Wetland Crossings Mitigation Plan has been developed for the wetland crossings identified (Resource Report 2 - Section 2.4 Wetland Resources). This Wetland Crossings Mitigation Plan will be followed should any blasting be required for trench excavation.

Blasting for trench excavation crossing a wetland will only be considered after all other reasonable means of excavating have been evaluated and determined to be unlikely to achieve the required trench grade.

Blasting should not be conducted within or near a wetland without MVP's Environmental Inspector review and development of a Wetland Crossing Blasting Plan that includes protective measures to minimize damage to wetlands. At a minimum, the individual Wetland Crossing Blasting Plan will be provided to the appropriate federal, state and local authorities for review and approval five working days prior to conducting the blasting.

Blasting will be conducted in a manner that will not compromise the structural integrity of the wetland hydrology of known wetlands. If rock is required to be blasted to achieve trench grade, then the following parameters will be adhered to:

- The excavation will be carefully inspected for any voids, openings, fractures, or other tell-tale signs of dewatering activity by MVP's Environmental Inspector.
- If the rock removal intercepts an open void, channel, or fracture, the work in that area will be stopped until a remedial assessment can be carried out by MVP's Environmental Inspector.
- All use of explosives will be limited to low-force charges that are designed to transfer the explosive force only to the rock which is designated for removal (e.g., maximum charge of 2 inches per second ground acceleration).

7.8 Rock Disposal Due to Blasting

During the course of blasting for grade and trench excavation excess rock fragments that are deemed as unacceptable for trench backfill may be incurred. This excess rock may be used in the restoration of the disturbed right-of-way limits, with the rock buried within the reclamation limits of the right-of-way. With the acceptance, approval and signed individual landowner agreements for the placement of this excess rock, the rock placement will be to a depth that will help stabilize the right-of-way restoration and will be below the root zones of the cover vegetation.

If the excess rock is to be removed from the construction area, it is to be hauled to an approved local- and state-permitted disposal site. This disposal facility will need to demonstrate that it is permitted to accept and dispose of the excess rock from the blasting operations. MVP will obtain a copy of the disposal facility's permit, as issued by the local jurisdiction having authority over the disposal facility and the disposal site within.

7.9 Disposal of Explosive Materials

All explosive materials that are obviously deteriorated or damaged shall not be used and shall be destroyed according to applicable local, state, and federal requirements.

Empty containers and packages and paper or fiberboard packing materials that have previously contained explosive materials shall not be reused for any purpose. Such packaging materials shall be destroyed by burning (outside of the construction right-of-way) at an approved outdoor location or by other approved method. All personnel shall remain at a safe distance from the disposal area.

All other explosive materials will be transported from the job site in approved magazines per local and/or state regulations.

7.10 Blasting Records

A record of each blast shall be made and submitted, along with seismograph reports, to MVP's CBI. The record shall contain the following minimum data for each blast:

- Name of company or contractor;
- Location, date and time of blast;
- Name, signature and license number of contractor and blaster in charge;
- Blast location referenced to the pipeline station/milepost;
- Picture record of the blast area disturbance and of blasted trench;
- Type of material blasted;
- Number of holes, depth of burden and stemming, and spacing;
- Diameter and depth of holes;
- Volume of rock in shot;
- Types of explosives used, specific gravity, energy release, pounds of explosive per delay, and total pounds of explosive per shot;
- Delay type, interval, total number of delays and holes per delay;
- Maximum amount of explosives per delay period of 17 milliseconds or greater;
- Power factor;
- Method of firing and type of circuit;
- Direction and distance in feet to nearest structure and utility neither owned or leased by the person conducting the blasting;
- Weather conditions;
- Type and height or length of stemming;
- If mats or other protection were used; and
- Type of detonators used and delay periods used.

Within 48 hours following a blast, a Blast Report is to be provided to the MVP's CBI. The Blast Report shall provide the information outlined by "Blast Report MVP Project". This Blast Report

form is considered the minimum information needed. Appendix B and C present the Blast Report forms. In addition to the completed Blast Report, the blast design is to be attached and made part of the Blast Report. The Blast Report MVP Project is in addition to all other local, county, township, state, or federal reporting requirements. Copies of these Blast Reports are to be provided to the CBI.

At the conclusion of each blasting event, the Blasting Contractor is to conduct an inventory of blasting/explosive materials with a written inventory report attached to the Blast Report. All blasting/explosive materials are to be accounted for. Any discrepancies are to be immediately reported to the governing agencies and the MVP's CBI.

The person taking the seismograph reading shall accurately indicate the exact location of the seismograph, if used, and shall also show the distance of the seismograph from the blast.

Seismograph records should include:

- Name of person and firm operating and analyzing the seismograph record;
- Seismograph serial number;
- Seismograph reading; and
- Maximum number of holes per delay period of 17 milliseconds or greater.

Within 72 hours following a blast, at sites monitored by a seismograph, a Seismograph Report is to be provided to the MVP's CBI. Appendix D presents the Seismograph Report Form for the MVP Project. In addition to the completed Seismograph Report, the seismograph readings and written interpretations are to be attached to the report. This reporting is in addition to all other local, county, township, state, or federal reporting requirements. Copies of these Seismograph Reports are to be provided to the CBI.

8 POST-BLASTING INSPECTION

An approved independent contractor, with landowner permission, will examine the condition of structures within 150 feet, or as required by state or local ordinances, of the construction area after completion of blasting operations, to identify any changes in the conditions of these properties or confirm any damages noted by the landowner. The independent contractor, with landowner approval, will conduct a resampling of wells within 150 feet, or as required by state or local ordinances, of the construction area. Should any damage or change occur during the blasting operations, an additional survey of the affected property may be made.

Upon receiving notice that a structure or other damages have possibly occurred due to the blasting operations, the Blasting contractor is to conduct a post-blast conditions survey. The post-blast conditions survey shall be conducted within 48 hours after being notified or at the landowner's schedule and permission. The post-blast conditions will be documented with the information outlined by "Post-Blast Survey for the MVP Project". This post-blast form is considered the minimum information needed. Appendix E presents the Post-Blast Survey form.



MVP Southgate Project

Docket No. CP19-14-000

Attachment 123-1

March 2019

Table 9-A1

**MVP Southgate Project
Construction Period Emissions Summary**

County	Activity	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
		CO ₂	CO	NOx	PM ₁₀	PM _{2.5}	SO ₂	VOC	HAPS	CO ₂	CO	NOx	PM ₁₀	PM _{2.5}	SO ₂	VOC	HAPS
Pittsylvania, VA	Non-Road and On-Road Construction Vehicles and Worker Commutes	39,222.0	59.5	93.7	6.2	5.7	0.2	12.4	1.1	3,885.8	5.2	7.3	0.6	0.5	0.0	1.2	0.1
	Fugitive Dust ¹	0.0	0.0	0.0	432.6	47.0	0.0	0.0	0.0	0.0	0.0	0.0	237.3	25.3	0.0	0.0	0.0
	Open Burning	3,293.1	145.0	4.1	17.6	17.6	0.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	42,515.0	204.4	97.9	456.4	70.3	0.2	37.3	1.1	3,885.8	5.2	7.3	237.9	25.8	0.0	1.2	0.1
Rockingham, NC	Non-Road and On-Road Construction Vehicles and Worker Commutes	33,527.6	43.4	78.8	5.0	4.6	0.2	10.1	0.9	1,594.3	1.5	2.1	0.1	0.1	0.0	0.4	0.0
	Fugitive Dust ¹	0.0	0.0	0.0	435.9	47.1	0.0000	0.0	0.0	0.0	0.0	0.0	241.2	25.7	0.0	0.0	0.0
	Open Burning	3,255.1	143.3	4.1	17.4	17.4	0.0	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	36,782.7	186.7	82.9	458.3	69.1	0.2	34.7	0.9	1,594.3	1.5	2.1	241.3	25.8	0.0	0.4	0.0
Alamance, NC	Non-Road and On-Road Construction Vehicles and Worker Commutes	31,438.9	39.0	73.1	4.5	4.2	0.2	9.4	0.9	1,616.8	1.5	2.2	0.1	0.1	0.0	0.4	0.0
	Fugitive Dust ¹	0.0	0.0	0.0	285.8	31.0	0.0	0.0	0.0	0.0	0.0	0.0	158.0	16.8	0.0	0.0	0.0
	Open Burning	2,325.7	102.4	2.9	12.4	12.4	0.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	33,764.6	141.4	76.0	302.7	47.6	0.2	27.0	0.9	1,616.8	1.5	2.2	158.1	16.9	0.0	0.4	0.0
PROJECT TOTAL		113,062.3	532.5	256.8	1,217.4	187.0	0.6	98.9	2.9	7,097.0	8.2	11.7	637.3	68.6	0.04	2.0	0.2

Notes:

1. Includes fugitive dust emissions from construction vehicle and commuter vehicles travel on paved and unpaved roads.

Table 9-A2

MVP Southgate Project
Construction Period Work Activity Emissions Summary

Summary of Non-Road Emissions

Activity	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS
H-605 and H-650 Pipeline - Pittsylvania County, VA	27,862	23.98	65.53	3.74	3.74	0.1460	8.25	0.64	1,472	0.74	1.98	0.11	0.11	0.0074	0.38	0.03
H-650 Pipeline - Rockingham County, NC	27,862	23.98	65.53	3.74	3.74	0.1460	8.25	0.64	1,472	0.74	1.98	0.11	0.11	0.0074	0.38	0.03
H-650 Pipeline - Alamance County, NC	27,862	23.98	65.53	3.74	3.74	0.1460	8.25	0.64	1,472	0.74	1.98	0.11	0.11	0.0074	0.38	0.03
Lambert Compressor Station/ Interconnect	7,664	15.26	22.16	1.64	1.64	0.0413	3.13	0.18	1,929	2.14	4.46	0.34	0.34	0.0101	0.69	0.04
LN 3600 Interconnect	1,470	2.54	4.35	0.30	0.30	0.0079	0.57	0.03	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
T-15 Dan River Interconnect	1,470	2.54	4.35	0.30	0.30	0.0079	0.57	0.03	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
T-21 Haw River Interconnect	1,470	2.54	4.35	0.30	0.30	0.0079	0.57	0.03	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
TOTAL	95,660	94.81	231.81	13.77	13.77	0.5030	29.60	2.20	6,346	4.35	10.38	0.65	0.65	0.0322	1.83	0.14

Summary of On-Road Construction Vehicle Emissions including Material Deliveries/Removals and Worker Commutes

Activity	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS
H-605 and H-650 Pipeline - Pittsylvania County, VA	972	8.52	0.77	0.17	0.04	0.0066	0.26	0.11	113	0.60	0.19	0.03	0.01	0.0009	0.03	0.01
H-650 Pipeline - Rockingham County, NC	900	8.30	0.61	0.15	0.03	0.0060	0.24	0.10	78	0.57	0.09	0.02	0.00	0.0006	0.02	0.01
H-650 Pipeline - Alamance County, NC	950	8.42	0.73	0.17	0.04	0.0064	0.25	0.11	101	0.59	0.15	0.02	0.01	0.0008	0.03	0.01
Lambert Compressor Station/ Interconnect	470	3.77	0.46	0.09	0.02	0.0033	0.13	0.05	95	0.65	0.12	0.02	0.01	0.0007	0.03	0.01
LN 3600 Interconnect	50	0.42	0.04	0.01	0.00	0.0003	0.01	0.01	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
T-15 Dan River Interconnect	50	0.42	0.04	0.01	0.00	0.0003	0.01	0.01	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
T-21 Haw River Interconnect	50	0.42	0.04	0.01	0.00	0.0003	0.01	0.01	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
TOTAL	3,442	30.27	2.69	0.61	0.13	0.0233	0.91	0.39	386	2.40	0.56	0.08	0.03	0.0029	0.11	0.03

Summary of Off-Road Vehicle Travel

Activity	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS
H-605 and H-650 Pipeline - Pittsylvania County, VA	488	2.17	0.92	0.12	0.05	0.0038	0.14	0.04	44	0.20	0.08	0.01	0.00	0.0003	0.01	0.00
H-650 Pipeline - Rockingham County, NC	488	2.17	0.92	0.12	0.05	0.0038	0.14	0.04	44	0.20	0.08	0.01	0.00	0.0003	0.01	0.00
H-650 Pipeline - Alamance County, NC	488	2.17	0.92	0.12	0.05	0.0038	0.14	0.04	44	0.20	0.08	0.01	0.00	0.0003	0.01	0.00
Lambert Compressor Station/ Interconnect	1,766	5.78	3.87	0.46	0.20	0.0144	0.50	0.11	233	0.84	0.49	0.06	0.03	0.0019	0.07	0.02
LN 3600 Interconnect	618	1.51	1.49	0.17	0.08	0.0052	0.18	0.04	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
T-15 Dan River Interconnect	618	1.51	1.49	0.17	0.08	0.0052	0.18	0.04	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
T-21 Haw River Interconnect	618	1.51	1.49	0.17	0.08	0.0052	0.18	0.04	0	0.00	0.00	0.00	0.00	0.0000	0.00	0.00
TOTAL	5,086	16.80	11.09	1.32	0.59	0.0413	1.44	0.33	364	1.43	0.74	0.09	0.04	0.0029	0.10	0.03

Summary of Open Burning Emissions

Activity	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS	CO ₂	CO	NOx	PM ₁₀	PM ₂₅	SO ₂	VOC	HAPS
H-605 and H-650 Pipeline - Pittsylvania County, VA	3,228	142.10	4.06	17.26	17.26	0.0	24.4	NA	0	0	0	0	0	0	0	NA
H-650 Pipeline - Rockingham County, NC	3,251	143.13	4.09	17.38	17.38	0.0	24.5	NA	0	0	0	0	0	0	0	NA
H-650 Pipeline - Alamance County, NC	2,326	102.39	2.93	12.43	12.43	0.0	17.6	NA	0	0	0	0	0	0	0	NA
Lambert Compressor Station/ Interconnect	65	2.88	0.08	0.35	0.35	0.0	0.5	NA	0	0	0	0	0	0	0	NA
LN 3600 Interconnect	2	0.09	0.002	0.01	0.01	0.0	0.01	NA	0	0	0	0	0	0	0	NA
T-15 Dan River Interconnect	2	0.09	0.002	0.01	0.01	0.0	0.01	NA	0	0	0	0	0	0	0	NA
T-21 Haw River Interconnect	0	0.00	0.00	0.00	0.00	0.0	0.0	NA	0	0	0	0	0	0	0	NA
TOTAL	8,874	390.67	11.16	47.44	47.44	0.0	66.97	0.00	0	0	0	0	0	0	0	0.00

Summary of Fugitive Dust Emissions (Includes Paved and Unpaved Road vehicle travel)

Activity	2020 Emission Totals (Tons)		2021 Emission Totals (Tons)	
	PM ₁₀	PM ₂₅	PM ₁₀	PM ₂₅
H-605 and H-650 Pipeline - Pittsylvania County, VA	397.74	42.78	227.30	24.20
H-650 Pipeline - Rockingham County, NC	421.54	45.30	241.22	25.68
H-650 Pipeline - Alamance County, NC	278.86	30.14	157.97	16.83
Lambert Compressor Station/ Interconnect	34.85	4.22	10.00	1.14
LN 3600 Interconnect	6.91	0.85	0.00	0.00
T-15 Dan River Interconnect	7.43	0.91	0.00	0.00
T-21 Haw River Interconnect	6.93	0.86	0.00	0.00
TOTAL	1,154	125.07	636.49	67.85

Table 9-A3(a)
MVP Southgate Project
Fugitive Dust Emissions During Construction

Facility	County	Disturbed Acreage	Construction Duration (months)	Exposed Soils (acre-months)	Total PM Emissions (tons)				Earth Moving - Total PM Emissions (tons)				Wind Erosion - Total PM Emissions (tons)			
					2020		2021		2020		2021		2020		2021	
					PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
Pipeline	Pittsylvania, VA	514.2	19	9,770	388.25	41.27	226.48	24.07	339.40	33.94	197.98	19.80	48.85	7.33	28.50	4.27
	Rockingham, NC	545.9	19	10,372	412.14	43.81	240.41	25.55	360.28	36.03	210.16	21.02	51.86	7.78	30.25	4.54
	Alamance, NC	356.8	19	6,780	269.40	28.64	157.15	16.70	235.51	23.55	137.38	13.74	33.90	5.08	19.77	2.97
Lambert Compressor Station/ Interconnect	Pittsylvania, VA	18.6	18	335	14.05	1.49	7.02	0.75	12.28	1.23	6.14	0.61	1.77	0.27	0.88	0.13
LN 3600 Interconnect	Rockingham, NC	3.5	5	18	1.10	0.12	0.00	0.00	0.97	0.10	0.00	0.00	0.14	0.02	0.00	0.00
T-15 Dan River Interconnect	Rockingham, NC	5.2	5	26	1.62	0.17	0.00	0.00	1.42	0.14	0.00	0.00	0.20	0.03	0.00	0.00
T-21 Haw River Interconnect	Alamance, NC	3.6	5	18	1.12	0.12	0.00	0.00	0.98	0.10	0.00	0.00	0.14	0.02	0.00	0.00
Total				27,318	1087.68	115.61	631.07	67.08	950.82	95.08	551.66	55.17	136.86	20.53	79.41	11.91

Fugitive Dust Emission Factors (Construction)

PM₁₀² 5.50E-02 ton/acre-month
PM_{2.5}^{1,2} 5.50E-03 ton/acre-month

¹WRAP Fugitive Dust Handbook, Countess Environmental, September 2006, Section 3.4.1.

²WRAP Fugitive Dust Handbook, Table 3-2, level 1, average conditions

Fugitive Dust Emission Factors (Wind Erosion)

PM₁₀³ 7.92E-03 ton/acre-month
PM_{2.5}^{3,4} 1.19E-03 ton/acre-month

³Wind erosion of exposed areas (seeded land, stripped or graded overburden) = 0.38 ton TSP/acre/yr (WRAP Fugitive Dust Handbook, Table 11-6)

⁴PM₁₀/TSP = 0.5, PM_{2.5}/PM₁₀ = 0.15, (WRAP Fugitive Dust Handbook, Section 7-2)

⁵Water and other approved dust suppressants would be used at construction sites (50% minimum control applied per WRAP Fugitive Dust Handbook).

Table 9-A3(b)
MVP Southgate Project
Paved Road Fugitive Dust Emissions During Construction

Site-Specific Information

Parameter	Units	Value
Average Weight of Vehicle (W) ²	tons	3.0
Precip > 0.01 in (p) ¹	days/yr	116

Emission Factor Equation Parameters

Parameter	Units	PM-10	PM-2.5
Surface Material Silt Loading (sL) ³	g/m2	0.6	
Particle Size Multiplier (k) ⁴	lb/VMT	0.0022	0.00054

Calculated Emission Factors

	Units	PM-10	PM-2.5
E (Short-Term Emission Factor)	lb/VMT	0.0042	0.0010
Eext (Annual Emission Factor)	lb/VMT	0.0029	0.0007

Facility	County	Paved Road Vehicle Miles Traveled (VMT)		Total PM Emissions (tons)			
				2020		2021	
		2020	2021	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
Pipeline	Pittsylvania, VA	2,496,171	200,446	3.61	0.89	0.29	0.07
	Rockingham, NC	2,433,241	184,836	3.52	0.86	0.27	0.07
	Alamance, NC	2,471,391	194,986	3.57	0.88	0.28	0.07
Lambert Compressor Station	Pittsylvania, VA	1,940,729	385,136	2.81	0.69	0.56	0.14
Lambert Interconnect	Rockingham, NC	573,500	0	0.83	0.20	0.00	0.00
LN 3600 and T-15 Dan River Interconnects	Rockingham, NC	1,147,000	0	1.66	0.41	0.00	0.00
T-21 Haw River Interconnect	Alamance, NC	573,500	0	0.83	0.20	0.00	0.00
Total				16.82	4.13	1.40	0.34

Calculation Sources:

(1) EPA's AP 42 Fifth Edition Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources Chapter 13.0 – Introduction to Miscellaneous Sources, Section 13.2 – Introduction to Fugitive Dust Sources Final Section of 13.2.1 Paved Roads (January 2011)

Emission Factor Equations:

Equation 1 from Calculation Source (1) - Hourly Emission Factor (lb/VMT): $E = k[sL^{0.91}](W^{1.02})$

Equation 2 from Calculation Source (1) - Annual Emission Factor (lb/VMT): $E_{ext} = E[1-P/(4*N)]$

Where:

E = particulate emission factor (having units matching the units of k);

k = particle size multiplier for particle size range and units of interest;

sL = road surface silt loading (grams per square meter) (g/m²); and

W = average weight (tons) of the vehicles traveling the road.

Notes:

¹ Chatham, VA 30-year average of days > 0.1 inch precipitation (1981-2010)

² Based on estimate of the average vehicle weight for onroad vehicles, including worker commutes and material removal/delivery vehicles

³ Based on Table 13.2.1-2 of Calculation Source (1); worst-case baseline

⁴ Based on Table 13.2.1-1 of Calculation Source (1) for paved roads

Table 9-A3(c)
MVP Southgate Project
Unpaved Road Fugitive Dust Emissions During Construction

Site-Specific Information

Parameter	Units	Values
Average Weight of Vehicle (W) ¹	tons	3
Precip > 0.01 in (p) ²	days/yr	116

Emission Factor Equation Parameters

Parameter	Units	PM-10	PM-2.5
Surface Material Silt Content (s) ³	%	8.5	
Particle Size Multiplier (k) ⁴	lb/VMT	1.5	0.15
Emperical Constant (a) ⁴	---	0.9	0.7
Emperical Constant (b) ⁴	---	0.45	0.45
Water Spray Control Efficiency	%	50	

Calculated Emission Factors

	Units	PM-10	PM-2.5
E	lb/VMT	0.550	0.059
Eext	lb/VMT	0.375	0.040

Facility	County	Unpaved Road Vehicle Miles Traveled (VMT)		Total PM Emissions (tons)			
		2020	2021	2020		2021	
				PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
Pipeline	Pittsylvania, VA	37,648	3,432	5.88	0.63	0.54	0.06
	Rockingham, NC	37,648	3,432	5.88	0.63	0.54	0.06
	Alamance, NC	37,648	3,432	5.88	0.63	0.54	0.06
Lambert Compressor Station	Pittsylvania, VA	78,000	15,470	12.19	1.31	2.42	0.26
Lambert Interconnect	Rockingham, NC	31,850	0	4.98	0.53	0.00	0.00
LN 3600 and T-15 Dan River Interconnects	Rockingham, NC	63,700	0	9.96	1.07	0.00	0.00
T-21 Haw River Interconnect	Alamance, NC	31,850	0	4.98	0.53	0.00	0.00
		Total		49.76	5.33	4.03	0.43

Calculation Sources:

(1) EPA's AP 42 Fifth Edition Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources Chapter 13.0 – Introduction to Miscellaneous Sources, Section 13.2 – Introduction to Fugitive Dust Sources Final Section of 13.2.2 Unpaved Roads (November 2006)

Emission Factor Equations:

Equation 1a from Calculation Source (1) - Hourly Emission Factor (lb/VMT): $E = k[(s/12)^a](W/3)^b$

Equation 2 from Calculation Source (1) - Annual Emission Factor (lb/VMT): $E_{ext} = E[(365-P)/365]$

Notes:

¹ Based on estimate of the average vehicle weight for construction site vehicles

² Chatham, VA 30-year average of days > 0.1 inch precipitation (1981-2010)

³ Based on Table 13.2.2.1 of Calculation Source (1)

⁴ Based on Table 13.2.2.2 of Calculation Source (1) for Unpaved Industrial Roads

Table 9-A4
H-605 and H-650 Pipeline Construction Equipment Air Emissions - Pittsylvania County

MVP Southgate Project
H-605 and H-650 Pipeline, Pittsylvania, VA

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs
Nonroad construction equipment																																	
Light plants	15	X		2	4	2270002027	2,149	277	588.92	2.36	4.48	0.35	0.35	0.0040	0.45	0.01	0.43	9.00	0.04	0.07	0.005	0.005	0.0001	0.007	0.000	1.16	0.00	0.01	0.001	0.001	0.0000	0.001	0.000
Bore rigs	250	X		6	10	2270002033	2,080	0	530.27	0.68	2.86	0.15	0.15	0.0031	0.24	0.01	0.43	130.70	0.17	0.70	0.036	0.036	0.0008	0.060	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
HDD Reaming/Pullback Rig	875	X		6	10	2270002033	2,080	0	530.03	1.09	4.71	0.18	0.18	0.0031	0.32	0.01	0.43	457.24	0.94	4.06	0.157	0.157	0.0027	0.272	0.011	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
HDD Assist Reaming/Pilot Hole Rig	440	X		6	10	2270002033	2,080	0	530.35	0.88	3.08	0.14	0.14	0.0031	0.22	0.01	0.43	230.06	0.38	1.33	0.060	0.060	0.0014	0.094	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 345C)	325	X		6	10	2270002036	71,240	3,640	536.38	0.38	1.00	0.05	0.05	0.0028	0.14	0.01	0.59	8076.65	5.70	15.00	0.819	0.819	0.0417	2.101	0.185	412.68	0.29	0.77	0.042	0.042	0.0021	0.107	0.009
Excavators (JD 350G LC)	271	X		6	10	2270002036	8,060	0	536.40	0.17	0.53	0.02	0.02	0.0026	0.13	0.01	0.59	761.97	0.24	0.75	0.030	0.030	0.0037	0.191	0.017	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Excavators (CAT 320DL)	148	X		6	10	2270002036	71,240	3,900	536.39	0.23	0.56	0.04	0.04	0.0027	0.14	0.01	0.59	3678.05	1.56	3.83	0.244	0.244	0.0182	0.935	0.084	201.35	0.09	0.21	0.013	0.013	0.0010	0.051	0.005
Off-highway trucks -1-2.5 ton trucks (CAT 725)	309	X		6	8	2270002051	6,656	1,456	536.40	0.20	0.52	0.02	0.02	0.0026	0.13	0.01	0.59	717.48	0.26	0.70	0.028	0.028	0.0035	0.179	0.016	156.95	0.06	0.15	0.006	0.006	0.0008	0.039	0.004
Water Truck	175	X		6	10	2270002051	4,160	1,560	536.41	0.12	0.32	0.01	0.01	0.0026	0.13	0.01	0.59	253.97	0.06	0.15	0.005	0.005	0.0012	0.063	0.006	95.24	0.02	0.06	0.002	0.002	0.0005	0.023	0.002
Utility Truck	100	X		6	10	2270002051	10,140	2,080	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	353.74	0.10	0.22	0.008	0.008	0.0017	0.087	0.008	72.56	0.02	0.04	0.002	0.002	0.0004	0.018	0.002
Tractors, loaders, and backhoes (CAT 450F)	144	X		6	6	2270002066	1,560	0	625.13	1.65	2.76	0.34	0.34	0.0036	0.44	0.01	0.21	32.51	0.09	0.14	0.018	0.018	0.0002	0.023	0.001	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Dozers (CAT D6K)	125	X		6	10	2270002069	49,920	4,160	536.38	0.28	0.72	0.05	0.05	0.0027	0.14	0.01	0.59	2176.73	1.15	2.92	0.207	0.207	0.0109	0.571	0.050	181.39	0.10	0.24	0.017	0.017	0.0009	0.048	0.004
Dozers (CAT D7E)	235	X		6	10	2270002069	49,400	3,900	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	4049.71	1.54	5.08	0.220	0.220	0.0201	1.039	0.093	319.71	0.12	0.40	0.017	0.017	0.0016	0.082	0.007
Off- highway tractors (John Deere 6115D)	115	X		6	6	2270002051	1,404	468	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	56.33	0.02	0.03	0.001	0.001	0.0003	0.014	0.001	18.78	0.01	0.01	0.000	0.000	0.0001	0.005	0.000
Rock Drill Machine (JOHN HENRY drill on CAT320DL)	248	X		6	10	2270002081	3,120	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	269.88	0.23	0.67	0.043	0.043	0.0014	0.081	0.006	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Feller Buncher (CAT 553C)	173	X		6	10	2270002081	260	0	536.28	0.61	1.44	0.14	0.14	0.0029	0.17	0.01	0.59	15.69	0.02	0.04	0.004	0.004	0.0001	0.005	0.000	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Logging Skidder (CAT 525C)	182	X		6	10	2270002081	780	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	49.51	0.04	0.12	0.008	0.008	0.0003	0.015	0.001	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Chipper (Bandit 1850)	250	X		6	10	2270002081	780	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	68.01	0.06	0.17	0.011	0.011	0.0004	0.020	0.002	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Sideboom (CAT 583T Pipelayer)	347	X		6	10	2270002081	37,700	0	536.26	0.95	2.24	0.14	0.14	0.0031	0.18	0.01	0.59	4562.39	8.12	19.09	1.169	1.169	0.0261	1.524	0.105	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Bending Machine	175	X		6	10	2270002081	3,900	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	238.05	0.20	0.59	0.038	0.038	0.0013	0.071	0.005	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Stump Grinder (Vermeer SC252)	27	X		6	10	2270002081	1,560	0	595.69	0.38	3.16	0.04	0.04	0.0030	0.15	0.01	0.59	16.32	0.01	0.09	0.001	0.001	0.0001	0.004	0.000	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Chain Saw	10	X		6	10	2270002081	7,540	0	594.37	4.49	4.32	0.35	0.35	0.0040	0.56	0.01	0.59	29.15	0.22	0.21	0.017	0.017	0.0002	0.027	0.001	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Nonroad Industrial Equipment																																	
Bobcat with sweeper attachment	70	X		6	2	2270003040	572	364	589.79	1.16	3.25	0.14	0.14	0.0033	0.18	0.01	0.43	11.19	0.02	0.06	0.003	0.003	0.0001	0.003	0.000	7.12	0.01	0.04	0.002	0.002	0.0000	0.002	0.000
Bobcat with brush hog attachment	70	X		6	2	2270003040	312	0	589.79	1.16	3.25	0.14	0.14	0.0033	0.18	0.01	0.43	6.11	0.01	0.03	0.001	0.001	0.0000	0.002	0.000	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Nonroad Commercial Equipment																																	
Pumps	15	X		6	6	2270006010	13,416	1,092	588.81	2.43	4.59	0.36	0.36	0.0040	0.49	0.01	0.43	56.16	0.23	0.44	0.034	0.034	0.0004	0.046	0.001	4.57	0.02	0.04	0.003	0.003	0.0000	0.004	0.000
Air compressors	275	X		6	10	2270006015	18,200	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	1257.68	2.09	7.29	0.463	0.463	0.0075	0.659	0.029	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Welders	55	X		6	9	2270006025	19,422	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	268.43	0.45	1.56	0.099	0.099	0.0016	0.141	0.006	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
Pressure washers	5	X		6	4	2270006030	2,392	728	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	3.01	0.00	0.02	0.001	0.001	0.0000	0.002	0.000	0.91	0.00	0.01	0.000	0.000	0.0000	0.000	0.000
Hydro power units	200	X		6	10	2270006035	520	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	26.13	0.04	0.15	0.010	0.010	0.0002	0.014	0.001	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	
On-road construction vehicles																																	
							Number of Vehicle Miles Traveled		MOVES Emission Factors (g/VMT)									2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
Light duty gasoline vehicles (< 6,000 lb GVW)	150		X	6	2		46,800	1,560	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		22.55	0.21	0.02	0.004	0.001	0.0002	0.006	0.003	0.75	0.01	0.00	0.000	0.000	0.0000	0.000	0.000
Heavy duty gasoline vehicles (>6,000 lb GVW)	300		X	6	2		393,120	39,000	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		189.43	1.75	0.13	0.032	0.006	0.0013	0.050	0.022	18.79	0.17	0.01	0.003	0.001	0.0001	0.005	0.002
Light duty diesel vehicles (< 6,000 lb GVW)	150	X		6	2		82,680	10,920	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		182.97	0.14	0.52	0.055	0.028	0.0016	0.053	0.008	24.17	0.02	0.07	0.007	0.004	0.0002	0.007	0.001
Heavy duty diesel vehicles (>6,000 lb GVW) Gang Bus	300	X		6	2		42,120	0	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		93.21	0.07	0.26	0.028	0.014	0.0008	0.027	0.004	0.00	0.00	0.000	0.000	0.0000	0.00		

Table 9-A5
H-650 Pipeline Construction Equipment Air Emissions - Rockingham County

MVP Southgate Project
H-650 Pipeline, Rockingham, NC

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)									
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs		
Nonroad construction equipment																																			
Light plants	15	X		2	4	2270002027	2,149	277	588.92	2.36	4.48	0.35	0.35	0.0040	0.45	0.01	0.43	9.00	0.04	0.07	0.005	0.005	0.0001	0.007	0.000	1.16	0.00	0.01	0.001	0.001	0.0000	0.001	0.000		
Bore rigs	250	X		6	10	2270002033	2,080	0	530.27	0.68	2.86	0.15	0.15	0.0031	0.24	0.01	0.43	130.70	0.17	0.70	0.036	0.036	0.0008	0.060	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
HDD Reaming/Pullback Rig	875	X		6	10	2270002033	2,080	0	530.03	1.09	4.71	0.18	0.18	0.0031	0.32	0.01	0.43	457.24	0.94	4.06	0.157	0.157	0.0027	0.272	0.011	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
HDD Assist Reaming/Pilot Hole Rig	440	X		6	10	2270002033	2,080	0	530.35	0.88	3.08	0.14	0.14	0.0031	0.22	0.01	0.43	230.06	0.38	1.33	0.060	0.060	0.0014	0.094	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Excavators (CAT 345C)	325	X		6	10	2270002036	71,240	3,640	536.38	0.38	1.00	0.05	0.05	0.0028	0.14	0.01	0.59	8076.65	5.70	15.00	0.819	0.819	0.0417	2.101	0.185	412.68	0.29	0.77	0.042	0.042	0.0021	0.107	0.009		
Excavators (JD 350G LC)	271	X		6	10	2270002036	8,060	0	536.40	0.17	0.53	0.02	0.02	0.0026	0.13	0.01	0.59	761.97	0.24	0.75	0.030	0.030	0.0037	0.191	0.017	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Excavators (CAT 320DL)	148	X		6	10	2270002036	71,240	3,900	536.39	0.23	0.56	0.04	0.04	0.0027	0.14	0.01	0.59	3678.05	1.56	3.83	0.244	0.244	0.0182	0.935	0.084	201.35	0.09	0.21	0.013	0.013	0.0010	0.051	0.005		
Off-highway trucks -1-2.5 ton trucks (CAT 725)	309	X		6	8	2270002051	6,656	1,456	536.40	0.20	0.52	0.02	0.02	0.0026	0.13	0.01	0.59	717.48	0.26	0.70	0.028	0.028	0.0035	0.179	0.016	156.95	0.06	0.15	0.006	0.006	0.0008	0.039	0.004		
Water Truck	175	X		6	10	2270002051	4,160	1,560	536.41	0.12	0.32	0.01	0.01	0.0026	0.13	0.01	0.59	253.97	0.06	0.15	0.005	0.005	0.0012	0.063	0.006	95.24	0.02	0.06	0.002	0.002	0.0005	0.023	0.002		
Utility Truck	100	X		6	10	2270002051	10,140	2,080	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	353.74	0.10	0.22	0.008	0.008	0.0017	0.087	0.008	72.56	0.02	0.04	0.002	0.002	0.0004	0.018	0.002		
Tractors, loaders, and backhoes (CAT 450F)	144	X		6	6	2270002066	1,560	0	625.13	1.65	2.76	0.34	0.34	0.0036	0.44	0.01	0.21	32.51	0.09	0.14	0.018	0.018	0.0002	0.023	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Dozers (CAT D6K)	125	X		6	10	2270002069	49,920	4,160	536.38	0.28	0.72	0.05	0.05	0.0027	0.14	0.01	0.59	2176.73	1.15	2.92	0.207	0.207	0.0109	0.571	0.050	181.39	0.10	0.24	0.017	0.017	0.0009	0.048	0.004		
Dozers (CAT D7E)	235	X		6	10	2270002069	49,400	3,900	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	4049.71	1.54	5.08	0.220	0.220	0.0201	1.039	0.093	319.71	0.12	0.40	0.017	0.017	0.0016	0.082	0.007		
Off- highway tractors (John Deere 6115D)	115	X		6	6	2270002051	1,404	468	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	56.33	0.02	0.03	0.001	0.001	0.0003	0.014	0.001	18.78	0.01	0.01	0.000	0.000	0.0001	0.005	0.000		
Rock Drill Machine (JOHN HENRY drill on CAT320DL)	248	X		6	10	2270002081	3,120	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	269.88	0.23	0.67	0.043	0.043	0.0014	0.081	0.006	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Feller Buncher (CAT 553C)	173	X		6	10	2270002081	260	0	536.28	0.61	1.44	0.14	0.14	0.0029	0.17	0.01	0.59	15.69	0.02	0.04	0.004	0.004	0.0001	0.005	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Logging Skidder (CAT 525C)	182	X		6	10	2270002081	780	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	49.51	0.04	0.12	0.008	0.008	0.0003	0.015	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Chipper (Bandit 1850)	250	X		6	10	2270002081	780	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	68.01	0.06	0.17	0.011	0.011	0.0004	0.020	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Sideboom (CAT 583T Pipelayer)	347	X		6	10	2270002081	37,700	0	536.26	0.95	2.24	0.14	0.14	0.0031	0.18	0.01	0.59	4562.39	8.12	19.09	1.169	1.169	0.0261	1.524	0.105	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Bending Machine	175	X		6	10	2270002081	3,900	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	238.05	0.20	0.59	0.038	0.038	0.0013	0.071	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Stump Grinder (Vermeer SC252)	27	X		6	10	2270002081	1,560	0	595.69	0.38	3.16	0.04	0.04	0.0030	0.15	0.01	0.59	16.32	0.01	0.09	0.001	0.001	0.0001	0.004	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Chain Saw	10	X		6	10	2270002081	7,540	0	594.37	4.49	4.32	0.35	0.35	0.0040	0.56	0.01	0.59	29.15	0.22	0.21	0.017	0.017	0.0002	0.027	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Nonroad Industrial Equipment																																			
Bobcat with sweeper attachment	70	X		6	2	2270003040	572	364	589.79	1.16	3.25	0.14	0.14	0.0033	0.18	0.01	0.43	11.19	0.02	0.06	0.003	0.003	0.0001	0.003	0.000	7.12	0.01	0.04	0.002	0.002	0.0000	0.002	0.000		
Bobcat with brush hog attachment	70	X		6	2	2270003040	312	0	589.79	1.16	3.25	0.14	0.14	0.0033	0.18	0.01	0.43	6.11	0.01	0.03	0.001	0.001	0.0000	0.002	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Nonroad Commercial Equipment																																			
Pumps	15	X		6	6	2270006010	13,416	1,092	588.81	2.43	4.59	0.36	0.36	0.0040	0.49	0.01	0.43	56.16	0.23	0.44	0.034	0.034	0.0004	0.046	0.001	4.57	0.02	0.04	0.003	0.003	0.0000	0.004	0.000		
Air compressors	275	X		6	10	2270006015	18,200	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	1257.68	2.09	7.29	0.463	0.463	0.0075	0.659	0.029	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Welders	55	X		6	9	2270006025	19,422	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	268.43	0.45	1.56	0.099	0.099	0.0016	0.141	0.006	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
Pressure washers	5	X		6	4	2270006030	2,392	728	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	3.01	0.00	0.02	0.001	0.001	0.0000	0.002	0.000	0.91	0.00	0.01	0.000	0.000	0.0000	0.000	0.000		
Hydro power units	200	X		6	10	2270006035	520	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	26.13	0.04	0.15	0.010	0.010	0.0002	0.014	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000		
On-road construction vehicles							Number of Vehicle Miles Traveled		MOVES Emission Factors (g/VMT)									2020 Emission Totals (Tons)								2021 Emission Totals (Tons)									
Light duty gasoline vehicles (< 6,000 lb GVW)							150		46,800	1,560	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		22.55	0.21	0.02	0.004	0.001	0.0002	0.006	0.003	0.75	0.01	0.00	0.000	0.000	0.0000	0.000	0.000
Heavy duty gasoline vehicles (>6,000 lb GVW)							300		393,120	39,000	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		189.43	1.75	0.13	0.032	0.006	0.0013	0.050	0.022	18.79	0.17	0.01	0.003	0.001	0.0001	0.005	0.002
Light duty diesel vehicles (< 6,000 lb GVW)							150	X	82,680	10,920	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		182.97	0.14	0.52	0.055	0.028	0.0016	0.053	0.008	24.17	0.02	0.07	0.007	0.004	0.0002	0.007	0.001
Heavy duty diesel vehicles (>6,000 lb GVW) Gang Bus							300	X	42,120	0</																									

Table 9-A6
H-650 Pipeline Construction Equipment Air Emissions - Alamance County

MVP Southgate Project
H-650 Pipeline, Alamance, NC

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Table 9-A7
Lambert Compressor Station Construction Equipment Air Emissions - Pittsylvania County

MVP Southgate Project
Lambert Compressor Station, Pittsylvania County, VA

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs
Nonroad construction equipment																																	
Pavers (CAT AP655D Track Asphalt Paver)	174	X		6	10	2270002003	1,040	260	536.36	0.38	0.91	0.08	0.08	0.0028	0.15	0.01	0.59	63.12	0.04	0.11	0.009	0.009	0.0003	0.017	0.001	15.78	0.01	0.03	0.002	0.002	0.0001	0.004	0.000
Small handheld, walk-behind, or single person sized tampers or rammers (BoMag 8500 compactor)	19	X		6	10	2270002006	9,360	3,120	588.51	4.46	4.45	0.38	0.38	0.0040	0.58	0.01	0.43	49.61	0.38	0.38	0.032	0.032	0.0003	0.049	0.001	16.54	0.13	0.13	0.011	0.011	0.0001	0.016	0.000
Light plants	15	X		6	10	2270002027	14,560	3,120	588.92	2.36	4.48	0.35	0.35	0.0040	0.45	0.01	0.43	60.96	0.24	0.46	0.036	0.036	0.0004	0.047	0.001	13.06	0.05	0.10	0.008	0.008	0.0001	0.010	0.000
Excavators (CAT 345C)	325	X		6	10	2270002036	7,280	2,860	536.38	0.38	1.00	0.05	0.05	0.0028	0.14	0.01	0.59	825.35	0.58	1.53	0.084	0.084	0.0043	0.215	0.019	324.24	0.23	0.60	0.033	0.033	0.0017	0.084	0.007
Excavators (JD 350G LC)	271	X		6	10	2270002036	3,900	1,560	536.40	0.17	0.53	0.02	0.02	0.0026	0.13	0.01	0.59	368.70	0.12	0.36	0.014	0.014	0.0018	0.093	0.008	147.48	0.05	0.15	0.006	0.006	0.0007	0.037	0.003
Excavators (CAT 320DL)	148	X		6	10	2270002036	2,860	1,560	536.39	0.23	0.56	0.04	0.04	0.0027	0.14	0.01	0.59	147.66	0.06	0.15	0.010	0.010	0.0007	0.038	0.003	80.54	0.03	0.08	0.005	0.005	0.0004	0.020	0.002
Concrete or stone industrial saws	10	X		6	10	2270002039	4,680	520	594.37	4.50	4.32	0.36	0.36	0.0040	0.56	0.01	0.59	18.09	0.14	0.13	0.011	0.011	0.0001	0.017	0.000	2.01	0.02	0.01	0.001	0.001	0.0000	0.002	0.000
Off-highway trucks -1-2.5 ton trucks (CAT 725)	309	X		6	10	2270002051	7,800	3,640	536.40	0.20	0.52	0.02	0.02	0.0026	0.13	0.01	0.59	840.80	0.31	0.82	0.033	0.033	0.0041	0.210	0.019	392.37	0.14	0.38	0.015	0.015	0.0019	0.098	0.009
Water Truck	175	X		6	10	2270002051	3,640	1,560	536.41	0.12	0.32	0.01	0.01	0.0026	0.13	0.01	0.59	222.22	0.05	0.13	0.004	0.004	0.0011	0.055	0.005	95.24	0.02	0.06	0.002	0.002	0.0005	0.023	0.002
Utility Truck	100	X		6	6	2270002051	3,432	1,248	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	119.73	0.03	0.07	0.003	0.003	0.0006	0.030	0.003	43.54	0.01	0.03	0.001	0.001	0.0002	0.011	0.001
Rough terrain forklifts (CASE 588H)	78	X		6	10	2270002057	6,760	1,560	595.59	1.46	1.48	0.18	0.18	0.0032	0.18	0.01	0.59	204.24	0.50	0.51	0.063	0.063	0.0011	0.061	0.004	47.13	0.12	0.12	0.015	0.015	0.0003	0.014	0.001
Rubber tire front loaders (CAT 972K)	288	X		6	6	2270002060	1,716	936	536.36	0.30	0.95	0.05	0.05	0.0027	0.15	0.01	0.59	172.39	0.10	0.30	0.016	0.016	0.0009	0.047	0.004	94.03	0.05	0.17	0.009	0.009	0.0005	0.026	0.002
Tractors, loaders, and backhoes (CAT 450F)	144	X		6	8	2270002066	2,288	1,248	625.13	1.65	2.76	0.34	0.34	0.0036	0.44	0.01	0.21	47.68	0.13	0.21	0.026	0.026	0.0003	0.034	0.001	26.01	0.07	0.11	0.014	0.014	0.0002	0.018	0.001
Dozers (CAT D6K)	125	X		6	10	2270002069	5,720	3,120	536.38	0.28	0.72	0.05	0.05	0.0027	0.14	0.01	0.59	249.42	0.13	0.33	0.024	0.024	0.0013	0.065	0.006	136.05	0.07	0.18	0.013	0.013	0.0007	0.036	0.003
Dozers (CAT D7E)	235	X		6	6	2270002069	312	0	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	25.58	0.01	0.03	0.001	0.001	0.0001	0.007	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Loaders (Tracked - CAT 953D)	148	X		6	6	2270002072	5,928	1,872	624.59	2.33	3.58	0.44	0.44	0.0037	0.61	0.01	0.21	126.85	0.47	0.73	0.089	0.089	0.0008	0.124	0.002	40.06	0.15	0.23	0.028	0.028	0.0002	0.039	0.001
Off- highway tractors (John Deere 6115D)	115	X		6	10	2270002051	1,560	1,560	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	62.58	0.02	0.04	0.001	0.001	0.0003	0.015	0.001	62.58	0.02	0.04	0.001	0.001	0.0003	0.015	0.001
Rock Drill Machine (JOHN HENRY drill on CAT320DL)	248	X		6	10	2270002081	1,560	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	134.94	0.11	0.34	0.022	0.022	0.0007	0.040	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Logging Skidder (CAT 525C)	182	X		6	10	2270002081	1,560	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	99.03	0.08	0.25	0.016	0.016	0.0005	0.030	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chipper (Bandit 1850)	250	X		6	10	2270002081	1,560	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	136.03	0.11	0.34	0.022	0.022	0.0007	0.041	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Stump Grinder (Vermeer SC252)	27	X		6	10	2270002081	1,560	0	595.69	0.38	3.16	0.04	0.04	0.0030	0.15	0.01	0.59	16.32	0.01	0.09	0.001	0.001	0.0001	0.004	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chain Saw	10		X	6	10	2265002081	3,120	0	1046.69	278.54	1.97	0.11	0.11	0.0191	4.90	0.23	0.48	17.28	4.60	0.03	0.002	0.002	0.0003	0.081	0.004	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Industrial Equipment																																	
Aerial Lifts	49	X		6	10	2270003010	24,960	2,600	692.66	4.22	4.79	0.63	0.63	0.0042	1.05	0.01	0.21	196.10	1.19	1.36	0.179	0.179	0.0012	0.296	0.003	20.43	0.12	0.14	0.019	0.019	0.0001	0.031	0.000
Self-propelled sweeping and scrubbing vehicles	70	X		6	5	2270003030	1,560	650	589.89	0.74	3.08	0.08	0.08	0.0031	0.15	0.01	0.43	30.53	0.04	0.16	0.004	0.004	0.0002	0.008	0.001	12.72	0.02	0.07	0.002	0.002	0.0001	0.003	0.000
Hydraulic Crane	268	X		6	10	2270002045	5,200	260	530.57	0.22	1.02	0.04	0.04	0.0027	0.15	0.01	0.43	350.47	0.14	0.67	0.027	0.027	0.0018	0.097	0.008	17.52	0.01	0.03	0.001	0.001	0.0001	0.005	0.000
Marooka	250	X		6	6	2270002069	2,496	312	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	217.68	0.08	0.27	0.012	0.012	0.0011	0.056	0.005	27.21	0.01	0.03	0.001	0.001	0.0001	0.007	0.001
Nonroad Commercial Equipment																																	
Generator set (specify kW)	94	X		6	10	2270006005	17,160	7,800	589.21	1.80	3.24	0.31	0.31	0.0035	0.36	0.01	0.43	450.48	1.38	2.48	0.238	0.238	0.0027	0.278	0.009	204.77	0.63	1.13	0.108	0.108	0.0012	0.126	0.004
Pumps	15	X		6	5	2270006010	9,620	780	588.81	2.43	4.59	0.36	0.36	0.0040	0.49	0.01	0.43	40.27	0.17	0.31	0.025	0.025	0.0003	0.033	0.001	3.27	0.01	0.03	0.002	0.002	0.0000	0.003	0.000
Air compressors	275	X		6	10	2270006015	7,280	520	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	503.07	0.84	2.92	0.185	0.185	0.0030	0.264	0.012	35.93	0.06	0.21	0.013	0.013	0.0002	0.019	0.001
Welders	55	X		6	10	2270006025	17,160	3,120	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	237.16	0.39	1.37	0.087	0.087	0.0014	0.124	0.006	43.12	0.07	0.25	0.016	0.016	0.0003	0.023	0.001
Pressure washers	5	X		6	5	2270006030	2,340	1,040	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	2.94	0.00	0.02	0.001	0.001	0.0000	0.002	0.000	1.31	0.00	0.01	0.000	0.000	0.0000	0.001	0.000
Hydro power units	200	X		6	10	2270006035	3,120	520	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	156.80	0.26	0.91	0.058	0.058	0.0009	0.082	0.004	26.13	0.04	0.15	0.010	0.010	0.0002	0.014	0.001
On-road construction vehicles																																	
							Number of Vehicle Miles Traveled		MOVES Emission Factors (g/MT)									2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
Light duty gasoline vehicles (< 6,000 lb GVW)	150		X	6	2		101,400	35,100	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		48.86	0.45	0.03	0.008	0.002	0.0003	0.013	0.006	16.91	0.16	0.01	0.003	0.001	0.0001	0.004	0.002
Heavy duty gasoline vehicles (>6,000 lb GVW)	300		X	6	5		731,250	126,750	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		352.36	3.25	0.24	0.060	0.011	0.0023	0.093	0.041	61.08	0.56	0.04	0.010	0.002	0.0004	0.016	0.007
Light duty diesel vehicles (< 6,000 lb GVW)	150	X		6	5		271,050	46,800	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		599.83	0.46	1.70	0.179	0.091	0.0053	0.175	0.025	103.57	0.08	0.29	0.031	0.016	0.0009	0.030	0.004
Heavy duty diesel vehicles (>6,000 lb GVW)	300	X		6	5		66,300	23,400	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		146.72	0.11	0.41	0.044	0.022	0.0013	0.043	0.006	51.78	0.04	0.15	0.015	0.008	0.0005	0.015	0.002
Deliveries / Removals	Empty Vehicle Weight	Full Vehicle Weight	Round Trip Distance				Number of Vehicle Miles Traveled		MOVES Emission Factors (g/MT)									2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
	(tons)	(tons)	(miles)				2020	2021	CO2	CO																							

Table 9-A8
Lambert Interconnect Construction Equipment Air Emissions - Pittsylvania County

MVP Southgate Project
Lambert Interconnect, Pittsylvania County, VA

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs
Nonroad construction equipment																																	
Small handheld, walk-behind, or single person sized tampers or rammers (BoMag 8500 compactor)	19	X		6	10	2270002006	2,080	0	588.51	4.46	4.45	0.38	0.38	0.0040	0.58	0.01	0.43	11.02	0.08	0.08	0.007	0.007	0.0001	0.011	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Light plants	15	X		6	10	2270002027	3,640	0	588.92	2.36	4.48	0.35	0.35	0.0040	0.45	0.01	0.43	15.24	0.06	0.12	0.009	0.009	0.0001	0.012	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 345C)	325	X		6	10	2270002036	2,080	0	536.38	0.38	1.00	0.05	0.05	0.0028	0.14	0.01	0.59	235.81	0.17	0.44	0.024	0.024	0.0012	0.061	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (JD 350G LC)	271	X		6	10	2270002036	1,040	0	536.40	0.17	0.53	0.02	0.02	0.0026	0.13	0.01	0.59	98.32	0.03	0.10	0.004	0.004	0.0005	0.025	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 320DL)	148	X		6	10	2270002036	260	0	536.39	0.23	0.56	0.04	0.04	0.0027	0.14	0.01	0.59	13.42	0.01	0.01	0.001	0.001	0.0001	0.003	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Concrete or stone industrial saws	10	X		6	10	2270002039	780	0	594.37	4.50	4.32	0.36	0.36	0.0040	0.56	0.01	0.59	3.02	0.02	0.02	0.002	0.002	0.0000	0.003	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Off-highway trucks -1-2.5 ton trucks (CAT 725)	309	X		6	10	2270002051	1,040	0	536.40	0.20	0.52	0.02	0.02	0.0026	0.13	0.01	0.59	112.11	0.04	0.11	0.004	0.004	0.0005	0.028	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Water Truck	175	X		6	10	2270002051	1,300	0	536.41	0.12	0.32	0.01	0.01	0.0026	0.13	0.01	0.59	79.36	0.02	0.05	0.002	0.002	0.0004	0.020	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Utility Truck	100	X		6	6	2270002051	1,560	0	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	54.42	0.02	0.03	0.001	0.001	0.0003	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rough terrain forklifts (CASE 588H)	78	X		6	10	2270002057	1,300	0	595.59	1.46	1.48	0.18	0.18	0.0032	0.18	0.01	0.59	39.28	0.10	0.10	0.012	0.012	0.0002	0.012	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rubber tire front loaders (CAT 972K)	288	X		6	6	2270002060	468	0	536.36	0.30	0.95	0.05	0.05	0.0027	0.15	0.01	0.59	47.02	0.03	0.08	0.004	0.004	0.0002	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Tractors, loaders, and backhoes (CAT 450F)	144	X		6	8	2270002066	1,040	0	625.13	1.65	2.76	0.34	0.34	0.0036	0.44	0.01	0.21	21.67	0.06	0.10	0.012	0.012	0.0001	0.015	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Dozers (CAT D6K)	125	X		6	10	2270002069	1,300	0	536.38	0.28	0.72	0.05	0.05	0.0027	0.14	0.01	0.59	56.69	0.03	0.08	0.005	0.005	0.0003	0.015	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Loaders (Tracked - CAT 953D)	148	X		6	6	2270002072	780	0	624.59	2.33	3.58	0.44	0.44	0.0037	0.61	0.01	0.21	16.69	0.06	0.10	0.012	0.012	0.0001	0.016	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Off- highway tractors (John Deere 6115D)	115	X		6	10	2270002051	520	0	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	20.86	0.01	0.01	0.000	0.000	0.0001	0.005	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rock Drill Machine (JOHN HENRY drill on CAT320DL)	248	X		6	10	2270002081	520	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	44.98	0.04	0.11	0.007	0.007	0.0002	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Logging Skidder (CAT 525C)	182	X		6	10	2270002081	260	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	16.50	0.01	0.04	0.003	0.003	0.0001	0.005	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chipper (Bandit 1850)	250	X		6	10	2270002081	260	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	22.67	0.02	0.06	0.004	0.004	0.0001	0.007	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Stump Grinder (Vermeer SC252)	27	X		6	10	2270002081	260	0	595.69	0.38	3.16	0.04	0.04	0.0030	0.15	0.01	0.59	2.72	0.00	0.01	0.000	0.000	0.0000	0.001	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chain Saw	10		X	6	10	2265002081	520	0	1046.69	278.54	1.97	0.11	0.11	0.0191	4.90	0.23	0.48	2.88	0.77	0.01	0.000	0.000	0.0001	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Industrial Equipment																																	
Aerial Lifts	49	X		6	10	2270003010	1,300	0	692.66	4.22	4.79	0.63	0.63	0.0042	1.05	0.01	0.21	10.21	0.06	0.07	0.009	0.009	0.0001	0.015	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Self-propelled sweeping and scrubbing vehicles	70	X		6	5	2270003030	650	0	589.89	0.74	3.08	0.08	0.08	0.0031	0.15	0.01	0.43	12.72	0.02	0.07	0.002	0.002	0.0001	0.003	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Hydraulic Crane	268	X		6	10	2270002045	780	0	530.57	0.22	1.02	0.04	0.04	0.0027	0.15	0.01	0.43	52.57	0.02	0.10	0.004	0.004	0.0003	0.015	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Marooka	250	X		6	6	2270002069	780	0	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	68.02	0.03	0.09	0.004	0.004	0.0003	0.017	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Commercial Equipment																																	
Pumps	15	X		6	5	2270006010	2,080	0	588.81	2.43	4.59	0.36	0.36	0.0040	0.49	0.01	0.43	8.71	0.04	0.07	0.005	0.005	0.0001	0.007	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Air compressors	275	X		6	10	2270006015	3,120	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	215.60	0.36	1.25	0.079	0.079	0.0013	0.113	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Welders	55	X		6	10	2270006025	2,340	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	32.34	0.05	0.19	0.012	0.012	0.0002	0.017	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Pressure washers	5	X		6	5	2270006030	520	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	0.65	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Hydro power units	200	X		6	10	2270006035	1,040	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	52.27	0.09	0.30	0.019	0.019	0.0003	0.027	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
On-road construction vehicles																																	
							Number of Vehicle Miles Traveled		MOVES Emission Factors (g/VMT)																								
Light duty gasoline vehicles (< 6,000 lb GVW)	150		X	6	10		156,000	0	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		75.17	0.69	0.05	0.013	0.002	0.0005	0.020	0.009	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Heavy duty gasoline vehicles (>6,000 lb GVW)	300		X	6	5		97,500	0	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		46.98	0.43	0.03	0.008	0.001	0.0003	0.012	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Light duty diesel vehicles (< 6,000 lb GVW)	150	X		6	10		175,500	0	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		388.38	0.30	1.10	0.116	0.059	0.0034	0.114	0.016	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Heavy duty diesel vehicles (>6,000 lb GVW)	300	X		6	5		48,750	0	2007.61	1.54	5.67	0.60	0.30	0.0176	0.59	0.08		107.88	0.08	0.30	0.032	0.016	0.0009	0.032	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0	

Table 9-A9
LN 3600 and T-15 Dan River Interconnect Construction Equipment Air Emissions - Rockingham County

MVP Southgate Project
LN 3600 and T-15 Dan River Interconnects, Rockingham County, NC

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs
Nonroad construction equipment																																	
Small handheld, walk-behind, or single person sized tampers or rammers (BoMag 8500 compactor)	19	X		6	10	2270002006	4,160	0	588.51	4.46	4.45	0.38	0.38	0.0040	0.58	0.01	0.43	22.05	0.17	0.17	0.014	0.014	0.0001	0.022	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Light plants	15	X		6	10	2270002027	7,280	0	588.92	2.36	4.48	0.35	0.35	0.0040	0.45	0.01	0.43	30.48	0.12	0.23	0.018	0.018	0.0002	0.023	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 345C)	325	X		6	10	2270002036	4,160	0	536.38	0.38	1.00	0.05	0.05	0.0028	0.14	0.01	0.59	471.63	0.33	0.88	0.048	0.048	0.0024	0.123	0.011	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (JD 350G LC)	271	X		6	10	2270002036	2,080	0	536.40	0.17	0.53	0.02	0.02	0.0026	0.13	0.01	0.59	196.64	0.06	0.19	0.008	0.008	0.0010	0.049	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 320DL)	148	X		6	10	2270002036	520	0	536.39	0.23	0.56	0.04	0.04	0.0027	0.14	0.01	0.59	26.85	0.01	0.03	0.002	0.002	0.0001	0.007	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Concrete or stone industrial saws	10	X		6	10	2270002039	1,560	0	594.37	4.50	4.32	0.36	0.36	0.0040	0.56	0.01	0.59	6.03	0.05	0.04	0.004	0.004	0.0000	0.006	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Off-highway trucks -1-2.5 ton trucks (CAT 725)	309	X		6	10	2270002051	2,080	0	536.40	0.20	0.52	0.02	0.02	0.0026	0.13	0.01	0.59	224.21	0.08	0.22	0.009	0.009	0.0011	0.056	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Water Truck	175	X		6	10	2270002051	2,600	0	536.41	0.12	0.32	0.01	0.01	0.0026	0.13	0.01	0.59	158.73	0.04	0.10	0.003	0.003	0.0008	0.039	0.004	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Utility Truck	100	X		6	6	2270002051	3,120	0	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	108.84	0.03	0.07	0.002	0.002	0.0005	0.027	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rough terrain forklifts (CASE 588H)	78	X		6	10	2270002057	2,600	0	595.59	1.46	1.48	0.18	0.18	0.0032	0.18	0.01	0.59	78.55	0.19	0.19	0.024	0.024	0.0004	0.023	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rubber tire front loaders (CAT 972K)	288	X		6	6	2270002060	936	0	536.36	0.30	0.95	0.05	0.05	0.0027	0.15	0.01	0.59	94.03	0.05	0.17	0.009	0.009	0.0005	0.026	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Tractors, loaders, and backhoes (CAT 450F)	144	X		6	8	2270002066	2,080	0	625.13	1.65	2.76	0.34	0.34	0.0036	0.44	0.01	0.21	43.34	0.11	0.19	0.024	0.024	0.0003	0.031	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Dozers (CAT D6K)	125	X		6	10	2270002069	2,600	0	536.38	0.28	0.72	0.05	0.05	0.0027	0.14	0.01	0.59	113.37	0.06	0.15	0.011	0.011	0.0006	0.030	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Loaders (Tracked - CAT 953D)	148	X		6	6	2270002072	1,560	0	624.59	2.33	3.58	0.44	0.44	0.0037	0.61	0.01	0.21	33.38	0.12	0.19	0.024	0.024	0.0002	0.033	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Off- highway tractors (John Deere 6115D)	115	X		6	10	2270002051	1,040	0	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	41.72	0.01	0.03	0.001	0.001	0.0002	0.010	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rock Drill Machine (JOHN HENRY drill on CAT320DL)	248	X		6	10	2270002081	1,040	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	89.96	0.08	0.22	0.014	0.014	0.0005	0.027	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Logging Skidder (CAT 525C)	182	X		6	10	2270002081	520	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	33.01	0.03	0.08	0.005	0.005	0.0002	0.010	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chipper (Bandit 1850)	250	X		6	10	2270002081	520	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	45.34	0.04	0.11	0.007	0.007	0.0002	0.014	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Stump Grinder (Vermeer SC252)	27	X		6	10	2270002081	520	0	595.69	0.38	3.16	0.04	0.04	0.0030	0.15	0.01	0.59	5.44	0.00	0.03	0.000	0.000	0.0000	0.001	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chain Saw	10		X	6	10	2265002081	1,040	0	1046.69	278.54	1.97	0.11	0.11	0.0191	4.90	0.23	0.48	5.76	1.53	0.01	0.001	0.001	0.0001	0.027	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Industrial Equipment																																	
Aerial Lifts	49	X		6	10	2270003010	2,600	0	692.66	4.22	4.79	0.63	0.63	0.0042	1.05	0.01	0.21	20.43	0.12	0.14	0.019	0.019	0.0001	0.031	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Self-propelled sweeping and scrubbing vehicles	70	X		6	5	2270003030	1,300	0	589.89	0.74	3.08	0.08	0.08	0.0031	0.15	0.01	0.43	25.44	0.03	0.13	0.003	0.003	0.0001	0.006	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Hydraulic Crane	268	X		6	10	2270002045	1,560	0	530.57	0.22	1.02	0.04	0.04	0.0027	0.15	0.01	0.43	105.14	0.04	0.20	0.008	0.008	0.0005	0.029	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Marooka	250	X		6	6	2270002069	1,560	0	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	136.05	0.05	0.17	0.007	0.007	0.0007	0.035	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Commercial Equipment																																	
Pumps	15	X		6	5	2270006010	4,160	0	588.81	2.43	4.59	0.36	0.36	0.0040	0.49	0.01	0.43	17.42	0.07	0.14	0.011	0.011	0.0001	0.014	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Air compressors	275	X		6	10	2270006015	6,240	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	431.21	0.72	2.50	0.159	0.159	0.0026	0.226	0.010	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Welders	55	X		6	10	2270006025	4,680	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	64.68	0.11	0.37	0.024	0.024	0.0004	0.034	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Pressure washers	5	X		6	5	2270006030	1,040	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	1.31	0.00	0.01	0.000	0.000	0.0000	0.001	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Hydro power units	200	X		6	10	2270006035	2,080	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	104.53	0.17	0.61	0.038	0.038	0.0006	0.055	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
On-road construction vehicles																																	
							Number of Vehicle Miles Traveled		MOVES Emission Factors (g/VMT)									2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
Light duty gasoline vehicles (< 6,000 lb GVW)	150		X	6	10		312,000	0	437.15	4.03	0.29	0.07	0.01	0.0029	0.12	0.05		150.34	1.39	0.10	0.026	0.005	0.0010	0.040	0.017	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Heavy duty gasoline vehicles (>6,000 lb GVW)	300		X	6	5		195,000	0	437.15	4.03	0.29	0.07</																					

Table 9-A10
T-21 Haw River Interconnect Construction Equipment Air Emissions - Alamance County

MVP Southgate Project
T-21 Haw River Interconnect, Alamance County, NC

On-site Road and Nonroad Construction Equipment	Equipment Engine HP	Fuel		Schedule		SCC	Number of Operating Hours		NONROAD2008a Emission Factor (g/hp-hr)								Engine Load Factor	2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
		Diesel	Gasoline	days/week	hours/day		2020	2021	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAP		CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs	CO2	CO	NOx	PM10	PM25	SO2	VOC	HAPs
Nonroad construction equipment																																	
Small handheld, walk-behind, or single person sized tampers or rammers (BoMag 8500 compactor)	19	X		6	10	2270002006	2,080	0	588.51	4.46	4.45	0.38	0.38	0.0040	0.58	0.01	0.43	11.02	0.08	0.08	0.007	0.007	0.0001	0.011	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Light plants	15	X		6	10	2270002027	3,640	0	588.92	2.36	4.48	0.35	0.35	0.0040	0.45	0.01	0.43	15.24	0.06	0.12	0.009	0.009	0.0001	0.012	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 345C)	325	X		6	10	2270002036	2,080	0	536.38	0.38	1.00	0.05	0.05	0.0028	0.14	0.01	0.59	235.81	0.17	0.44	0.024	0.024	0.0012	0.061	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (JD 350G LC)	271	X		6	10	2270002036	1,040	0	536.40	0.17	0.53	0.02	0.02	0.0026	0.13	0.01	0.59	98.32	0.03	0.10	0.004	0.004	0.0005	0.025	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Excavators (CAT 320DL)	148	X		6	10	2270002036	260	0	536.39	0.23	0.56	0.04	0.04	0.0027	0.14	0.01	0.59	13.42	0.01	0.01	0.001	0.001	0.0001	0.003	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Concrete or stone industrial saws	10	X		6	10	2270002039	780	0	594.37	4.50	4.32	0.36	0.36	0.0040	0.56	0.01	0.59	3.02	0.02	0.02	0.002	0.002	0.0000	0.003	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Off-highway trucks -1-2.5 ton trucks (CAT 725)	309	X		6	10	2270002051	1,040	0	536.40	0.20	0.52	0.02	0.02	0.0026	0.13	0.01	0.59	112.11	0.04	0.11	0.004	0.004	0.0005	0.028	0.003	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Water Truck	175	X		6	10	2270002051	1,300	0	536.41	0.12	0.32	0.01	0.01	0.0026	0.13	0.01	0.59	79.36	0.02	0.05	0.002	0.002	0.0004	0.020	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Utility Truck	100	X		6	6	2270002051	1,560	0	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	54.42	0.02	0.03	0.001	0.001	0.0003	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rough terrain forklifts (CASE 588H)	78	X		6	10	2270002057	1,300	0	595.59	1.46	1.48	0.18	0.18	0.0032	0.18	0.01	0.59	39.28	0.10	0.10	0.012	0.012	0.0002	0.012	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rubber tire front loaders (CAT 972K)	288	X		6	6	2270002060	468	0	536.36	0.30	0.95	0.05	0.05	0.0027	0.15	0.01	0.59	47.02	0.03	0.08	0.004	0.004	0.0002	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Tractors, loaders, and backhoes (CAT 450F)	144	X		6	8	2270002066	1,040	0	625.13	1.65	2.76	0.34	0.34	0.0036	0.44	0.01	0.21	21.67	0.06	0.10	0.012	0.012	0.0001	0.015	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Dozers (CAT D6K)	125	X		6	10	2270002069	1,300	0	536.38	0.28	0.72	0.05	0.05	0.0027	0.14	0.01	0.59	56.69	0.03	0.08	0.005	0.005	0.0003	0.015	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Loaders (Tracked - CAT 953D)	148	X		6	6	2270002072	780	0	624.59	2.33	3.58	0.44	0.44	0.0037	0.61	0.01	0.21	16.69	0.06	0.10	0.012	0.012	0.0001	0.016	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Off- highway tractors (John Deere 6115D)	115	X		6	10	2270002051	520	0	536.41	0.15	0.33	0.01	0.01	0.0026	0.13	0.01	0.59	20.86	0.01	0.01	0.000	0.000	0.0001	0.005	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Rock Drill Machine (JOHN HENRY drill on CAT320DL)	248	X		6	10	2270002081	520	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	44.98	0.04	0.11	0.007	0.007	0.0002	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Logging Skidder (CAT 525C)	182	X		6	10	2270002081	260	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	16.50	0.01	0.04	0.003	0.003	0.0001	0.005	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chipper (Bandit 1850)	250	X		6	10	2270002081	260	0	536.32	0.45	1.33	0.09	0.09	0.0029	0.16	0.01	0.59	22.67	0.02	0.06	0.004	0.004	0.0001	0.007	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Stump Grinder (Vermeer SC252)	27	X		6	10	2270002081	260	0	595.69	0.38	3.16	0.04	0.04	0.0030	0.15	0.01	0.59	2.72	0.00	0.01	0.000	0.000	0.0000	0.001	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Chain Saw	10		X	6	10	2265002081	520	0	1046.69	278.54	1.97	0.11	0.11	0.0191	4.90	0.23	0.48	2.88	0.77	0.01	0.000	0.000	0.0001	0.013	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Industrial Equipment																																	
Aerial Lifts	49	X		6	10	2270003010	1,300	0	692.66	4.22	4.79	0.63	0.63	0.0042	1.05	0.01	0.21	10.21	0.06	0.07	0.009	0.009	0.0001	0.015	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Self-propelled sweeping and scrubbing vehicles	70	X		6	5	2270003030	650	0	589.89	0.74	3.08	0.08	0.08	0.0031	0.15	0.01	0.43	12.72	0.02	0.07	0.002	0.002	0.0001	0.003	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Hydraulic Crane	268	X		6	10	2270002045	780	0	530.57	0.22	1.02	0.04	0.04	0.0027	0.15	0.01	0.43	52.57	0.02	0.10	0.004	0.004	0.0003	0.015	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Marooka	250	X		6	6	2270002069	780	0	536.39	0.20	0.67	0.03	0.03	0.0027	0.14	0.01	0.59	68.02	0.03	0.09	0.004	0.004	0.0003	0.017	0.002	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Nonroad Commercial Equipment																																	
Pumps	15	X		6	5	2270006010	2,080	0	588.81	2.43	4.59	0.36	0.36	0.0040	0.49	0.01	0.43	8.71	0.04	0.07	0.005	0.005	0.0001	0.007	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Air compressors	275	X		6	10	2270006015	3,120	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	215.60	0.36	1.25	0.079	0.079	0.0013	0.113	0.005	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Welders	55	X		6	10	2270006025	2,340	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	32.34	0.05	0.19	0.012	0.012	0.0002	0.017	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Pressure washers	5	X		6	5	2270006030	520	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	0.65	0.00	0.00	0.000	0.000	0.0000	0.000	0.000	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
Hydro power units	200	X		6	10	2270006035	1,040	0	530.15	0.88	3.07	0.20	0.20	0.0031	0.28	0.01	0.43	52.27	0.09	0.30	0.019	0.019	0.0003	0.027	0.001	0.00	0.00	0.00	0.000	0.000	0.0000	0.000	0.000
On-road construction vehicles																																	
							Number of Vehicle Miles Traveled		MOVES Emission Factors (g/VMT)									2020 Emission Totals (Tons)								2021 Emission Totals (Tons)							
Light duty gasoline vehicles (< 6,000 lb GVW)	150		X	6	10		156,000																										



MVP Southgate Project

Docket No. CP19-14-000

Attachment 128-1

March 2019

Project:

Southgate Project

Description:

Lambert CS:
Noise Sensitive Areas and
Measurement Locations




Prepared By:

SLR International Corporation

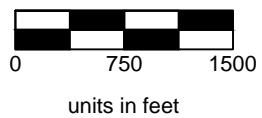
FIGURE 9.3-1 10.12.2018



Legend

-  Noise Sensitive Area (NSA)
-  Measurement Location (ML)
-  Compressor Station Building

Scale



6001 Savoy Drive, Suite 215
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