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Environmental Assessment

Proposed 1,130-Foot Guyed Communications Structure
(1,190-Foot Overall Height with Appurtenances)

**Davidson County
Broadcasting, Inc. -
Edwards (WWLV 94.1 FM
Radio Tower)**

**1095 Mazeppa Road
 Mooresville, Iredell and
 Rowan Counties,
 North Carolina**



SUBMITTED TO:

Davidson Investments, LLC
200 Radio Drive
Lexington, NC 27292

PREPARED BY:

Environmental Corporation of America
1375 Union Hill Industrial Court, Suite A
Alpharetta, GA 30004



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November 22, 2013

Davidson Investments, LLC
200 Radio Drive
Lexington, NC 27292

Attention: Mr. Gig Hilton

Subject: **Environmental Assessment**
TCNS ID #97346
Proposed 1,130-Foot Guyed Communications Structure
(1,190-Foot Overall Height with Appurtenances)
Davidson County Broadcasting, Inc. - Edwards (WWLV 94.1 FM Radio
Tower)
1095 Mazeppa Road
Mooreville, Iredell and Rowan Counties, North Carolina
ECA Project #: P-984

Dear Mr. Hilton:

Environmental Corporation of America (ECA) is pleased to provide this Environmental Assessment report. The federal undertaking includes the construction of a communications facility including a 1,190-foot guyed communications structure. The proposed undertaking would also include a fenced compound and three approximately 678-foot long (~206-meter) guy wire corridors.

Effective June 18, 2012, FCC regulations require that an Environmental Assessment be prepared for proposed towers over 450 feet in height to address the potential for migratory bird impacts. The proposed tower would be 1,190 feet tall, which is above the established height threshold. No other FCC National Environmental Policy Act (NEPA) issues have been identified in connection with the subject facility.

Based on our professional opinion, no significant adverse environmental impacts would occur as a result of the undertaking (the construction and operation of the facility). We base our opinion on the following:

- The project site is not located in an NWI mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain top, coastal zone, colonial nesting site, Western Hemisphere Shorebird Reserve Network (WHSRN)

site, floodplain, or an area commonly known to have high incidences of fog or low clouds, where migratory birds may be found.

Though the presence of migratory birds in the location of the proposed tower cannot be ruled out, the location of the tower with respect to surface water bodies that would serve as migratory bird attractants and/or migration corridors would suggest that the proposed project site would not likely be located within an area of highly concentrated migratory bird activity.

The tower would be equipped with guy wires, which cannot be avoided in order to meet structural and economic feasibility requirements. We understand that 24-hour high intensity white lights will be deployed in conjunction with the proposed undertaking. No steady red or pulsating lights, which are least preferred for protection against migratory bird strikes, would be used. As recommended in the *USFWS Service Guidance on the Lighting, Construction, Operation, and Decommissioning of Communications Towers* the tower and associated facility would be lighted and constructed so as to avoid or minimize habitat loss within and adjacent to the tower “footprint”. In addition, this tower would be constructed to accept the antennas of multiple carriers, thus reducing the need to build additional towers in the surrounding area, and compound lights would be motion-activated and down-shielded.

Based on the information discussed above, measures to minimize the potential impacts to migratory birds have been implemented, and based on the findings and recommendations in the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program; it is not likely that the tower would have significant direct or cumulative impacts on migratory bird populations.

Our EA finding of no significant impact is subject to review by the Federal Communications Commission (FCC). Upon review, the FCC will issue its finding. This finding will consist of an official agency position regarding environmental consequences of the undertaking.

We appreciate this opportunity to provide you with these professional services. If you have any questions regarding this report or the project in general, please call.

Sincerely yours,
Environmental Corporation of America



Seth Goad
Project Scientist



Ben Salter
Principal Scientist

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1.0 INTRODUCTION

Davidson Investments, LLC has proposed to construct a radio communications facility at the subject site. The subject facility would consist of a 120-foot long by 70-foot wide lease area that would contain a 1,190-foot tall (overall height) guyed communications structure and its associated ground level equipment. The proposed lease area would be accessible by a proposed approximate 2,000-foot long by 20-foot wide access/utility easement. Additionally, the project area would include three approximately 678-foot long guy wire corridors.

Effective June 18, 2012, FCC regulations require that an Environmental Assessment be prepared for proposed towers over 450 feet in height to address the potential for migratory bird impacts. The proposed tower would be 1,190 feet tall, which is above the established height threshold. No other FCC National Environmental Policy Act (NEPA) issues have been identified in connection with the subject facility.

In accordance with 47 CFR, Section 1.1307, et. seq., this Environmental Assessment has been prepared to address environmental effects associated with the construction and operation of the subject facility.

1.1 Site Location

The subject site is located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina as shown on Figure 1 of Appendix A. The northeastern guy anchor would be located in Rowan County, North Carolina. The proposed facility would be located on a parent tract that is occupied by an agricultural pasture.

Surrounding land uses are primarily residential, wooded, and agricultural.

1.2 Site Description

The proposed lease area is located in an agricultural pasture. A site plan of the subject facility is included as Figure 2 in Appendix A.

2.0 SITE INFORMATION

2.1 Zoning

The parent parcel is zoned Residential/Agricultural (RA) in both Iredell and Rowan Counties. Davidson Investments, LLC has submitted an application for a special use permit to Iredell County. No permits are required by Rowan County. Iredell County has not yet granted the special use permit for the proposed facility; however, it is expected to be issued in the following weeks.

2.2 Local Community

The Applicant is not aware of any concerns regarding environmental effects of the subject facility that have been expressed by planning or zoning officials or members of the local community. A Public

Notice was published in the *Mooreville Tribune* newspaper on Wednesday, November 20, 2013, requesting comments from interested persons on environmental impacts of the proposed communications tower and facility. No responses were received. We have not received a copy of the affidavit; however, the affidavit will be uploaded to the FCC ASR website as soon as it is received.

2.3 Site Selection and Alternatives Considered

The selection of wireless radio communications facilities is based primarily on the established grid within a specific service area. Within the service area, antenna structures have been previously constructed at specific nodes. As such, there is limited flexibility when selecting the exact locations of new facilities to allow for factors such as acceptable coverage, available sites, and sites which are environmentally sensitive.

The purpose of the proposed tower structure is to provide increased FM radio signal reach in to the Charlotte, North Carolina market and to eliminate currently grandfathered radio interference. The tower would serve to increase the total population coverage from approximately 1.9 million to 2.65 million listeners. The proposed tower height is need to meet the coverage objectives while utilizing available locations which are limited in order to avoid interference with other FM signals. The use of guy wires is necessary for proper structural support of a tower of this height. A self-supported tower was not economically feasible at the required height.

The Federal Aviation Administration (FAA) issued a *Determination of No Hazard to Air Navigation* (2009-ASO-3165-OE) which is included in Appendix H. This determination was conditioned upon the marking/lighting in accordance with FAA Advisory Circular 70/7460-1K Change 2, Obstruction Marking and Lighting, a high-dual system- Chapters 4,9 (H-Dual), and 12. No other lighting alternatives were considered in order to provide protection against migratory bird strikes.

A number of possible candidate sites were evaluated and considered for acquisition to meet the carrier's radio frequency (RF) coverage objective. Factors considered included RF coverage objectives, existing land use considerations, environmentally sensitive sites, and the willingness of individual land owners to enter into a contract for sale or lease of a suitable parcel of real estate for construction of the subject facility and zoning/setback requirements. An alternative site located in Rowan County approximately 1.8 miles to the east is currently being contested in the court system due to historic resource impact issues. A tower of similar height was considered at this alternate location. Based on these considerations, the subject property off Mazeppa Road was selected as the preferred alternative.

3.0 ENVIRONMENTAL ISSUES

In accordance with 47 CFR, Section 1.1307, the following issues must be addressed in an Environmental Assessment. Included in these regulations is the requirement to investigate each of the following items and provide a determination as to whether significant environmental impacts or effects are likely.

3.1 Wilderness Areas

The USGS Topographic Quadrangle Map, 7.5 Minute Series, Shepherds, NC (1969), and the Nationalatlas.gov GIS mapper, Federal Lands and Wilderness Preservation System layers, indicate the project area is not located within an officially designated wilderness area.

3.2 Wildlife Preserves

The USGS Topographic Quadrangle Map, 7.5 Minute Series, Shepherds, NC (1969), and the Nationalatlas.gov GIS mapper, Federal Lands and Wilderness Preservation System layers, indicate the project area is not located within an officially designated wildlife preserve.

3.3 Listed Threatened and Endangered Species and Critical Habitat

ECA determined that the proposed undertaking would have no effect on federally listed or proposed threatened or endangered species or designated Critical Habitats and provided our finding to the United States Fish and Wildlife Service (USFWS). In a response dated September 24, 2013, the USFWS stated that no federally listed species or the habitats occur on the subject site. However, the USFWS expressed concern about the cumulative effects to migratory birds, and provided recommended measures to minimize avian strikes on the proposed tower. Specific recommendations concerning tower height, design, lighting, and migratory birds were provided by the USFWS for all newly constructed towers and are included in Appendix D.

3.4 Proposed Threatened or Endangered Species and Proposed Critical Habitat

Based on the information reviewed, there are no proposed Threatened or Endangered species or proposed critical habitats within the vicinity of the project site. It is our opinion that the undertaking would not jeopardize proposed Threatened or Endangered species or result in the destruction or adverse modification of a proposed Critical Habitat.

3.5 Migratory Birds

The project site is not located in an NWI mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain top, coastal zone, colonial nesting site, Western Hemisphere Shorebird Reserve Network (WHSRN) site, floodplain, or an area commonly known to have high incidences of fog or low clouds, where migratory birds may be found.

The project area and proposed tower structure are not located near one of the principal North American migratory bird migrations routes. Though the presence of migratory birds in the location of the proposed tower cannot be ruled out, the location of the tower with respect to surface water bodies that would serve as migratory bird attractants and or migration corridors would suggest that the proposed project site would not likely be located within an area of highly concentrated migratory bird activity. The nearest significant body of water is Lake Norman, located approximately 7 miles west of the project site.

The tower would be equipped with guy wires, which cannot be avoided in order to meet structural and economic feasibility requirements. The tower would be lighted using 24-hour high-intensity white strobe

lights, which according to the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program is a more preferred lighting style than red-steady or red-pulsating lights for the protection against migratory bird strikes. As recommended in the *USFWS Service Guidance on the Lighting, Construction, Operation, and Decommissioning of Communications Towers* the tower and associated facility would be lighted and constructed so as to avoid or minimize habitat loss within and adjacent to the tower “footprint”. The facility would be constructed within a 120-foot by 70-foot lease area and would include guy anchor points and an approximate 2,000 foot long access road, all of which are located in an actively grazed pasture. In addition, this tower would be constructed to accept the antennas of multiple carriers, thus reducing the need to build additional towers in the surrounding area, and compound lights would be motion-activated and down-shielded.

Based on the proposed design and location, and on the outlined findings in the FCC PEA, the proposed undertaking would not be anticipated to result in any significant adverse direct or cumulative impacts to migratory birds.

3.6 Sites of Historic and Archeological Significance

A Communications Tower Review Form was completed for the proposed project and sent to the North Carolina Historic Preservation Office (SHPO) on July 16, 2013. On July 22, 2013, North Carolina SHPO responded that the proposed communication tower will not affect historic properties in the area of potential effect. The New Tower Submission Packet (FCC Form 620) along with the Section 106 Review and Archaeological Assessment was prepared and sent to the North Carolina SHPO on August 29, 2013. According to Section VII.B.1 of the Nationwide Programmatic Agreement, we conclude that the undertaking would have no effect on any Historic Properties (See Appendix E). Following NC SHPO’s July 22, 2013 response, the proposed tower height was changed from 1,180 feet (overall height) to 1,190 feet (overall height). On November 22, 2013, a project update letter was sent to NC SHPO informing them of the height change.

3.7 Indian Religious Sites

ECA identified five federally recognized tribes that may attach religious and cultural significance to Historic Properties within the area of the proposed undertaking. ECA initially contacted the FCC utilizing the Tower Construction Notification System (TCNS) on July 16, 2013 (TCNS ID 97346). Each interested tribe received initial notification from the FCC by July 19, 2013. Final tribal clearance was received October 21, 2013. Documentation of our tribal consultation is included in Appendix F.

3.8 Floodplains

According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel 3710467900K, dated June 16, 2009, the facility would not be located in a Special Flood Hazard Area of the 100-year floodplain (Appendix B).

3.9 Surface Features

According to the wetlands map obtained from the online National Wetlands Inventory database of the USFWS (Appendix C), and a site inspection, jurisdictional waters or wetlands are not located within the

boundaries of the proposed impact area. An apparent jurisdictional drainage feature crosses beneath the northeastern guy wire corridor. We understand that this drainage feature will not be disturbed during the construction of the proposed facility. Based on these findings, no impacts to wetland or waters would occur as a result of the proposed undertaking.

The proposed undertaking includes the construction of a communications facility including a 1,190-foot guyed communications structure. The proposed undertaking would also include a fenced compound and three guy-wire corridors measuring approximately 678 feet long, and an approximately 2,000 foot long access drive. The project area is currently occupied by an agricultural pasture. ECA understands that minimal clearing and grading are planned for the project. Based on this information, it does not appear the proposed facility would involve significant deforestation.

3.10 High Intensity Lighting

High intensity white lights are required by FAA for aviation avoidance marking on towers over 500 feet above ground surface. This tower will be 1,190 feet tall and per the FAA, 24-hour high intensity white strobe lights would be required in conjunction with the proposed undertaking. The facility is located on and surrounded by parcels designated by Iredell and Rowan Counties as Residential/Agricultural (RA), and is not located in or near an area designated as residential neighborhood. The tract on which the tower would be located is currently agricultural with a residence located approximately 1,940 feet to the south. The nearest residence is located approximately 1,250 feet to the southwest of the proposed tower structure. This is the only residence located within ¼-mile of the proposed tower. Residential development in the surrounding area is generally “rural residential”. The nearest residential neighborhood to the proposed tower is approximately 2,250 feet to the north at its closes point. The parcels within this neighborhood, along with all other parcels within ½ mile of the proposed tower, are zoned RA. Based on these findings, it does not appear that the proposed facility would be located “in or near a residential neighborhood” as identified in 47 CRF Section 1.1307. In addition, the tower lighting would be up-shielded to increase visibility to air traffic and decrease visibility from ground level. Based on the location and specifications no impacts to residential neighborhoods and high-intensity white lights are anticipated.

3.11 Radio Frequency Radiation

For RF Exposure assessment, ECA has relied solely on the project RF Engineers to determine that antennas located at the facility would result in RF exposures levels which fall within the FCC categorical exclusions and are not subject to routine environmental evaluation under Section 1.1307(b) of the Commission’s rules.

3.12 Environmental Notice

In accordance with 47 CFR Section 17.4, a local public notice requesting comments on the environmental impacts of the proposed project was published in the *Mooreville Tribune* newspaper on Wednesday, November 20, 2013. The publication affidavit has not been received; however, it will be uploaded to the FCC ASR website upon receipt. The required national notice comment period will begin upon upload of this document to the FCC through the Antenna Structure Registration (ASR) system.

4.0 FINDINGS, ISSUES, AND RECOMMENDATIONS

Migratory Birds

Findings: The proposed tower would be 1,190 feet tall.

The project site is not located in an NWI mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain top, coastal zone, colonial nesting site, Western Hemisphere Shorebird Reserve Network (WHSRN) site, floodplain, or an area commonly known to have high incidences of fog or low clouds, where migratory birds may be found.

Though the presence of migratory birds in the location of the proposed tower cannot be ruled out, the location of the tower with respect to surface water bodies that would serve as migratory bird attractants and or migration corridors would suggest that the proposed project site would not likely be located within an area of highly concentrated migratory bird activity.

Issues: Effective June 18, 2012, FCC regulations require that an Environmental Assessment be prepared for proposed towers over 450 feet in height to address the potential for migratory bird impacts.

Recommendation: The project area and proposed tower structure are not located near one of the principal North American migratory bird migrations routes. The nearest significant body of water is Lake Norman, located approximately 7 miles west of the project site. Though the presence of migratory birds in the location of the proposed tower cannot be ruled out, the location of the tower with respect to surface water bodies that would serve as migratory bird attractants and or migration corridors would suggest that the proposed project site would not likely be located within an area of highly concentrated migratory bird activity.

The tower would be equipped with guy wires, which cannot be avoided in order to meet structural and economic feasibility requirements. The tower would be lighted using 24-hour high-intensity white strobe lights, which according to the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program is a more preferred lighting style than red-steady or red-pulsating lights for the protection against migratory bird strikes. As recommended in the *USFWS Service Guidance on the Lighting, Construction, Operation, and Decommissioning of Communications Towers* the tower and associated facility would be lighted and constructed so as to avoid or minimize habitat loss within and adjacent to the tower “footprint”. The facility would be constructed within a 120-foot by 70-foot lease area and would include guy anchor points and an approximate 2,000 foot long access road, all of which are located in an actively grazed pasture. In addition, this tower would be constructed to accept the antennas

of multiple carriers, thus reducing the need to build additional towers in the surrounding area, and compound lights would be motion-activated and down-shielded.

Based on the proposed design and location, and on the outlined findings in the FCC PEA, the proposed undertaking would not be anticipated to result in any significant adverse direct or cumulative impacts to migratory birds.

Other Items contained in 41 CFR 1.1307

Finding: No other findings of environmental significance were identified.

Issue: No further issues were identified.

Recommendation: No further action is recommended.

5.0 SUMMARY

In summary, it is our opinion that no adverse environmental impacts or effects would result from the undertaking. We seek Commission concurrence with this finding.

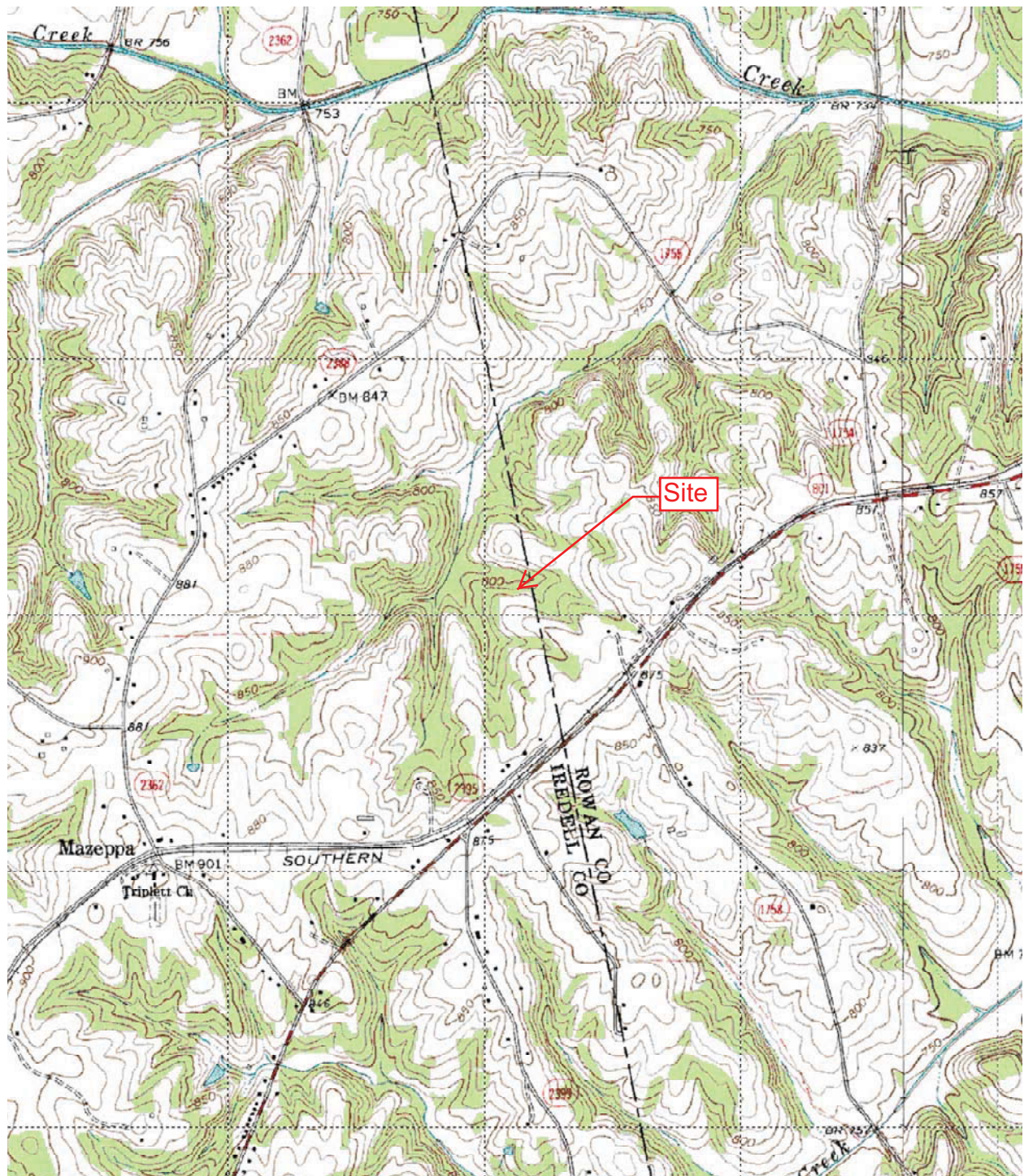
6.0 LIMITATIONS

This Environmental Assessment was conducted in accordance with generally accepted practices of the profession for such studies, conducted during the same time period and in the geographical area as this study. ECA has exercised the same degree of care and skill generally exercised by environmental professionals under similar circumstances and conditions. No other warranty is expressed or implied.

The observations, opinions and conclusions presented are not scientific certainties, but are solely opinions based upon the information available to us and our professional judgment based upon that information. The services provided herein are in no way intended to be legal advice and should not be relied upon in any way for legal interpretations.

APPENDIX A

Figures



2000 0 2000 Feet

Source: USGS Topographic Quadrangle Map, 7.5 Minute Series, Shepherds, NC (1969).



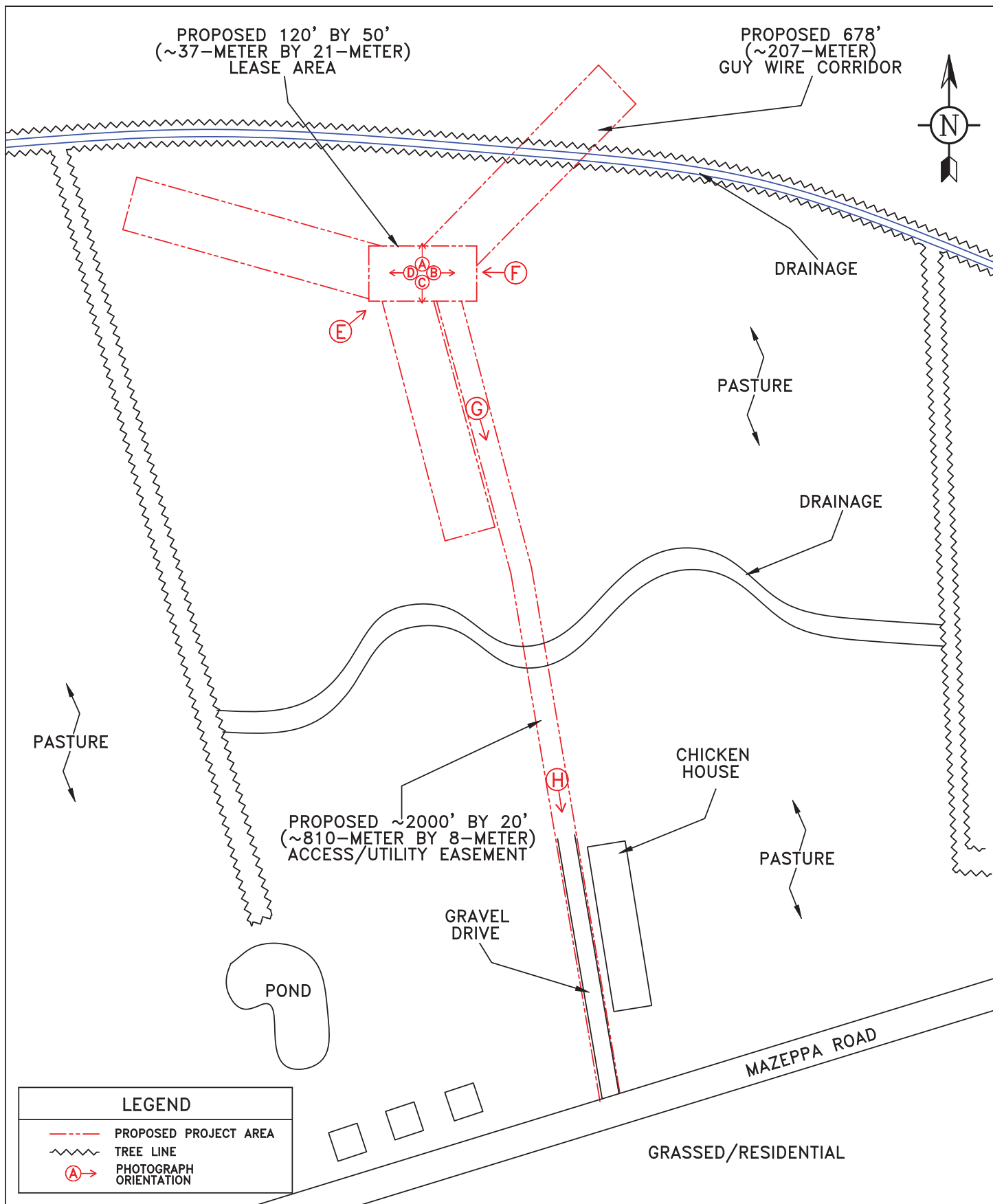
Davidson Investments, LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Figure 1: Site Location Plan



ECA Proj. #: P-984



Davidson Investments LLC – Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Figure 2: Site Vicinity Plan

SOURCE: ECA Site Visit, Survey, and Aerial
Photography

DRAWN BY: SDG

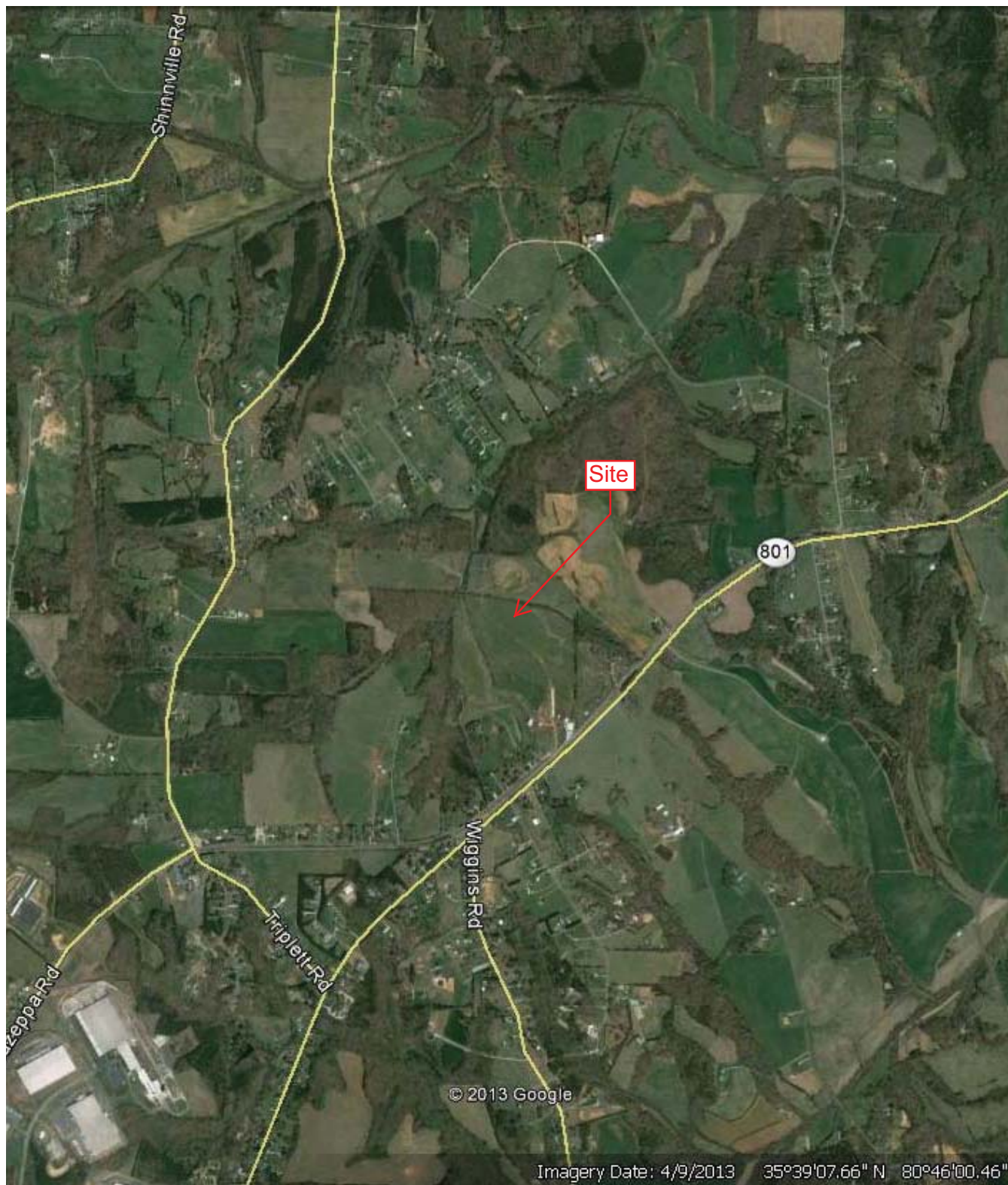
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ECA Project # P-984



Source: Google Earth Aerial Photograph (2010)



Davidson Investments, LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Figure 3: Aerial Photograph



ECA Proj. #: P-984

APPENDIX B

FEMA Flood Insurance Rate Map and Pertinent Documentation



FIRM
FLOOD INSURANCE RATE MAP
NORTH CAROLINA

PANEL 4679

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY

IREDELL COUNTY

MOORESVILLE, TOWN OF

ROWAN COUNTY

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Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP REVISED
JUNE 16, 2009

MAP NUMBER
3710467900K



State of North Carolina
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

APPENDIX C

Wetland Information



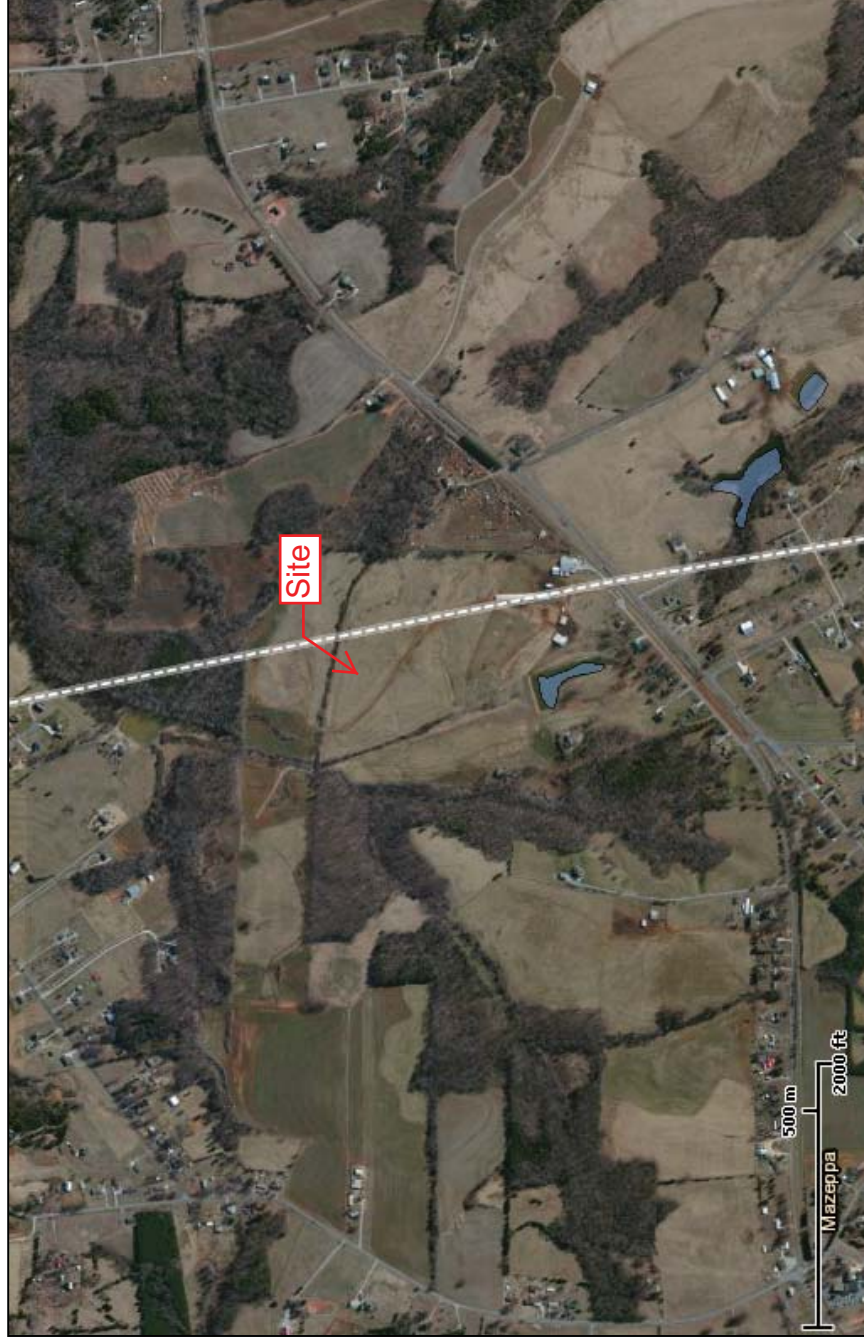
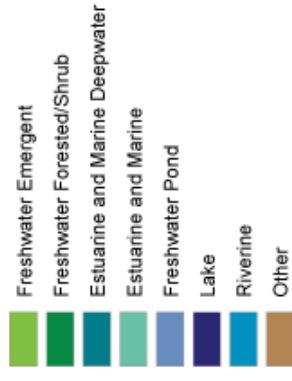
U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands Map

Jul 15, 2013

Wetlands



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Edwards

APPENDIX D

Protected Species Information



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Asheville Field Office
160 Zillicoa Street
Asheville, North Carolina 28801

September 24, 2013

Mr. Seth Goad
Mr. Ben Salter
Environmental Corps of America
1340 Patton Avenue, Suite K
Asheville, NC 28806

Dear Mr. Goad and Mr. Salter:

We have reviewed your letter dated September 10, 2013, concerning the proposed construction of a communications tower at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. The following comments are provided in accordance with the provisions of the National Environmental Policy Act (42 U.S.C. §4321 et seq.); the Migratory Bird Treaty Act, as amended (16 U.S.C. 703) (MBTA) and section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

Proposed Project. As stated in your letter, the proposed tower will be guyed, about 1180 feet high, and will have 24-hour, high intensity strobe lighting¹. The three guy wire corridors will be about 678 feet long and a 200-foot by 20-foot access road will be constructed.

Migratory Birds. As you are undoubtedly aware, communications towers (including radio, television, cellular, and microwave) can pose a hazard to both resident and migratory birds, especially birds that migrate at night. We are concerned about the cumulative effects to migratory birds, particularly the some 350 species that migrate at night, from the increasing number of towers being built by the communications industry. Towers 200 feet high and taller, such as the one you are proposing, are particularly hazardous, and those with lighting have even

¹ Per the interim guidelines of the Federal Communications Commission (FCC) Programmatic Environmental Assessment of the Antenna Structure Registration Program (FCC PEA), implemented on June 18, 2012, towers over 450 feet in height require additional environmental review for potential migratory bird concerns. The subject tower would be 1,180 feet tall, which is above the FCC PEA height threshold. Subsequently, an Environmental Assessment will be conducted for the proposed project and submitted to the FCC for review. The project site is located within an area dominated by grassed agricultural land. No other FAA lit structures were observed within 1/4 mile. The tower is required to be lit, and will be lighted with 24-hour high intensity white strobe lighting. Per the PEA, all white lighting is the most preferred lighting style. This style was specifically requested by the applicant to address migratory bird concerns.

higher rates of avian mortality. Estimated mortality rates from communications towers are well over 5 million birds per year nationally, which violates the spirit and intent of the MBTA and the Code of Federal Regulations at Part 50 (designed to implement the MBTA). Some of the species affected are also protected under the Endangered Species Act.

The MBTA (16 U.S.C. 703-712) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the MBTA has no provisions for allowing incidental take, we recognize that some migratory birds may be killed at structures such as communications towers even if all reasonable measures to avoid harm to them are implemented.

To minimize avian strikes on this tower, we recommend the following mitigative measures. These guidelines have been developed by U.S. Fish and Wildlife Service (Service) personnel from research conducted in several eastern, midwestern, and southern states and have been refined through regional review. They are based on the best information available at this time and are the most prudent and effective measures for avoiding bird strikes at towers. As new information becomes available, these guidelines will be updated accordingly.

Communications Tower Construction Guidelines to Protect Migratory Birds:

- Collocate equipment on existing towers (or other structure).
- Build the structure less than 199 feet above ground level and without guy wires if at all possible.
- Construct towers so they can accommodate possible future collocations of antennas.
- Use the minimum amount of lighting, the minimum intensity of lighting, and the minimum number of strobe flashes allowed with the minimum strobe flash duration under Federal Communications Commission/Federal Aviation Administration regulations.
- Minimize security lighting for on-ground facilities and ensure that such lighting points downward or is down-shielded.

We also recommend using flagging, large ball, or “bird deflectors” on guy wires to make them more visible to birds.

In order to obtain information on the usefulness of these guidelines in preventing bird strikes and to identify any recurring problems with their implementation that may necessitate modifications, please advise us of the final location and specifications of the proposed tower and which of the

above recommendations are implemented. If any of the reasonable measures cannot be implemented, please explain why they are not feasible.²

As mentioned previously, the take of even one bird may constitute a violation of the MBTA. However, issuance of a permit is problematic as the number and species of birds that might be “taken” are unknown and likely inconsistent.³ We recommend a monitoring program to examine site-specific avian migration at the tower site as well as the collection of birds from tower-induced mortality. This study will help clarify the actual impacts of this and other similar towers to avian mortality and also will help us recommend measures to reduce or eliminate any particular risks identified. Sampling should be focused during times of peak bird migration (April and September) and after significant weather events (storms and fog). We are available to assist in the design of a monitoring plan.

To assist us in assessing the effects of bird strikes to towers of this nature in this area, we request written permission for our employees and/or designees to access the property at the base of the tower to inspect for avian mortality. Access might occur at regular or random intervals and/or following weather events known to induce avian strikes.

Endangered Species. According to our records and a review of the information you provided, no federally listed species or their habitats occur on the subject site. Therefore, we believe the requirements under section 7 of the Endangered Species Act are fulfilled. However, obligations under section 7 of the Endangered Species Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

Thank you for informing us about this proposed project. If you have any questions about our comments, please contact Mr. Allen Ratzlaff of our staff at 828/258-3939, Ext. 229. In any future correspondence pertaining to this project, please reference our Log Number 4-2-13-399.

² A Communications Tower Working Group composed of government agencies, industry, academic researchers, and environmental organizations has been formed to develop and implement a research protocol to determine the best ways to construct and operate towers to prevent bird strikes. Until the research is completed or until research efforts uncover significant new mitigative measures, the guidelines listed above will be used to mitigate and minimize bird strikes.

³ The Service’s Division of Law Enforcement carries out its mission to protect migratory birds not only through investigation and enforcement but also through fostering relationships with individuals and industries who proactively seek to eliminate their impacts on migratory birds. While it is not possible under the MBTA to absolve individuals or companies from liability, if they follow these recommended guidelines, the Division of Law Enforcement and the Department of Justice have used enforcement and prosecutorial discretion in the past regarding individuals or companies who have made good-faith efforts to avoid the take of migratory birds.



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

September 10, 2013

U.S. Fish and Wildlife Service
Ecological Services
160 Zillico Street
Asheville, North Carolina 28801

Attention: Mr. Allen Ratzlaff

Subject: Request for Technical Assistance
Threatened, Endangered, and Proposed Threatened and Endangered Species
Proposed 1,130-Foot Guyed Telecommunications Structure
(1,180-Feet overall with Appurtenances)
Davidson Investments LLC – Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell County, North Carolina
Shepherds, NC USGS Quadrangle
Latitude: N 35° 39' 5.0" Longitude: W 80° 46' 1.0"
ECA Project Number: P-984

Dear Mr. Ratzlaff:

Environmental Corporation of America (ECA) is assisting Davidson Investments, LLC with environmental due diligence for the proposed project.

Background

The project location is shown on Figure 1 of Appendix A. Figure 2 is a plan view that shows the site configuration. Figure 3 is a recent aerial photograph of the project site and surrounding area. Davidson Investments LLC plans to construct a 1,180-foot tall (overall height), guyed telecommunications structure and a fenced equipment compound with the project area. Guy wires will be used and the tower will be lit with 24-hour high intensity white strobe lighting.

The project area is presently located within a grassed agricultural pasture. The project area includes a 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area, three approximately 678 foot long (~207-meter) guy wire corridors, and a proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement, which would traverse the parent tract in a general northwesterly direction from Mazeppa Road to the proposed lease area. The portion of the proposed access/utility easement closest to Mazeppa Road is occupied by a gravel drive. The remainder of the proposed access/utility easement is within a grassed agricultural pasture. Photographs from near the center of the proposed lease area and of the access drive/utility easement are provided in Appendix B. Descriptions of the photographs are provided underneath each photograph and photograph locations are graphically depicted on Figure 2.

Based on our research and site investigation, no jurisdictional waters or wetlands were identified within the proposed lease area or easement. According to the USDA Web Soil Survey, soils found within the project area are not listed as hydric in Iredell County, NC. No evidence of surface waters or the three indicators required for an area to be characterized as wetland were observed at the site. Therefore, it appears that the proposed undertaking would not impact jurisdictional waters or wetlands.

Purpose

The purpose of this letter is to provide you with documentation of our investigations and findings relative to federally protected species within the project area and to request United States Fish and Wildlife Service (USFWS) technical assistance with our documentation.

Review of Available Documentation and Site Inspection

ECA has reviewed the most current *U.S. Fish and Wildlife Service County List of Protected Species* for Iredell and Rowan County, North Carolina, the North Carolina Natural Heritage Program Database Locations of Rare Species Element Occurrences by 7.5 Minute USGS Quadrangle, and the Critical Habitat Mapper. ECA has also reviewed information from various sources pertaining to the habitat requirements of the listed species. Habitat at the site was evaluated during our August 14, 2013 site visit, which was conducted by Matthew Fields and Seth Goad of ECA.

Discussion of Findings

Because the proposed undertaking would not impact any open waters, aquatic species are not a concern for this undertaking. Protected species recognized by the U.S. Fish and Wildlife Service as inhabiting Iredell and Rowan County, North Carolina are listed in Appendix C. No critical habitat was identified in the project area vicinity.

Common Name	Scientific Name	Federal Status	Habitat	Finding of Effect
Bald eagle	<i>Haliaeetus leucocephalus</i>	Recovery	Requires tall trees along open waters for nesting and avoids areas where the habitat has been disturbed by humans.	No suitable habitat present; No effect
Bog turtle	<i>Clemmys muhlenbergii</i>	Threatened	Prefer bogs, fens, marshy meadows, and other wetlands with emergent vegetation, primarily in the mountains. Bog turtles can also utilize upland habitats surrounding wetlands	No suitable habitat present; No effect
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	Endangered	2 nd generation seccessional prairie habitats such as old pasture areas and cleared sunny wooded areas	No suitable habitat present; No effect
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	Endangered	Acidic soils along bluffs and adjacent slopes, in boggy areas next to streams and creek heads, and along the slopes of nearby hillsides and ravines.	No suitable habitat present; No effect

The 1,180-foot guyed telecommunications tower would be built within a 120-foot by 50-foot lease area and would include three approximately 678 foot long (~207-meter) guy wire corridors, and a proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement. The project area is not located near a principal migration route of the Atlantic Flyway (see Appendix C). Upon our site investigation, it was determined that the project area is not located in an NWI mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain-top, coastline, or area commonly known to have high incidences of fog or low clouds, where migratory

birds may be found. The nearest significant body of water is Lake Norman, located approximately 6 miles west of the proposed lease area at its nearest location. The project would not result in impacts to this feature. Based on the proximity to Lake Norman, the probability that significant numbers of migratory birds would be found within the project area is minimal; however, the presence of migratory birds cannot be ruled out.

Per the interim guidelines of the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program (FCC PEA), implemented on June 18, 2012, towers over 450 feet in height require additional environmental review for potential migratory bird concerns. This tower would be 1,180 feet tall, which is above the FCC PEA height threshold. Subsequently, an Environmental Assessment will be conducted for the proposed project and submitted to the FCC for review. The project site is located within an area dominated by grassed agricultural land. No other FAA lit structures were observed within ¼ mile. The tower is required to be lit, and will be lighted with 24-hour high intensity white strobe lighting. Per the PEA, all white lighting is the most preferred lighting style. This style was specifically requested by the applicant to address migratory bird concerns. The findings in the above paragraphs suggest that measures for minimizing impacts to migratory birds have been incorporated into this proposed undertaking.

Based on the efforts undertaken during this IBA, as well as the project specifications, the current data made available, and the interim FCC PEA, we have concluded that there is minimal potential for the proposed project to have a significant effect on migratory bird species.

Conclusions

Based on the information reviewed and our site inspections, ECA has found no evidence suggesting that federally protected species inhabit the project area (impact zone). Further, we have determined that the proposed undertaking would have no effect on federally protected species or designated critical habitat and that measures have been incorporated in the proposed project design to minimize the potential for significant impacts to migratory birds. A Tower Site Evaluation Form is included in Appendix D.


Closure

Matthew Fields and Seth Goad conducted the site visit and area inspection. Seth Goad collected the applicable information and compiled this report. Ben Salter reviewed this report. Mr. Salter's resume is included in Appendix E. We appreciate your assistance with this undertaking. Please advise us if there are questions or if the U.S. Fish and Wildlife Service has additional information which may be useful in our evaluation of the subject site for federally protected species. If you have any questions please contact us at (828)505-0755 or by email (seth.goad@eca-usa.com).

Sincerely,
Environmental Corporation of America



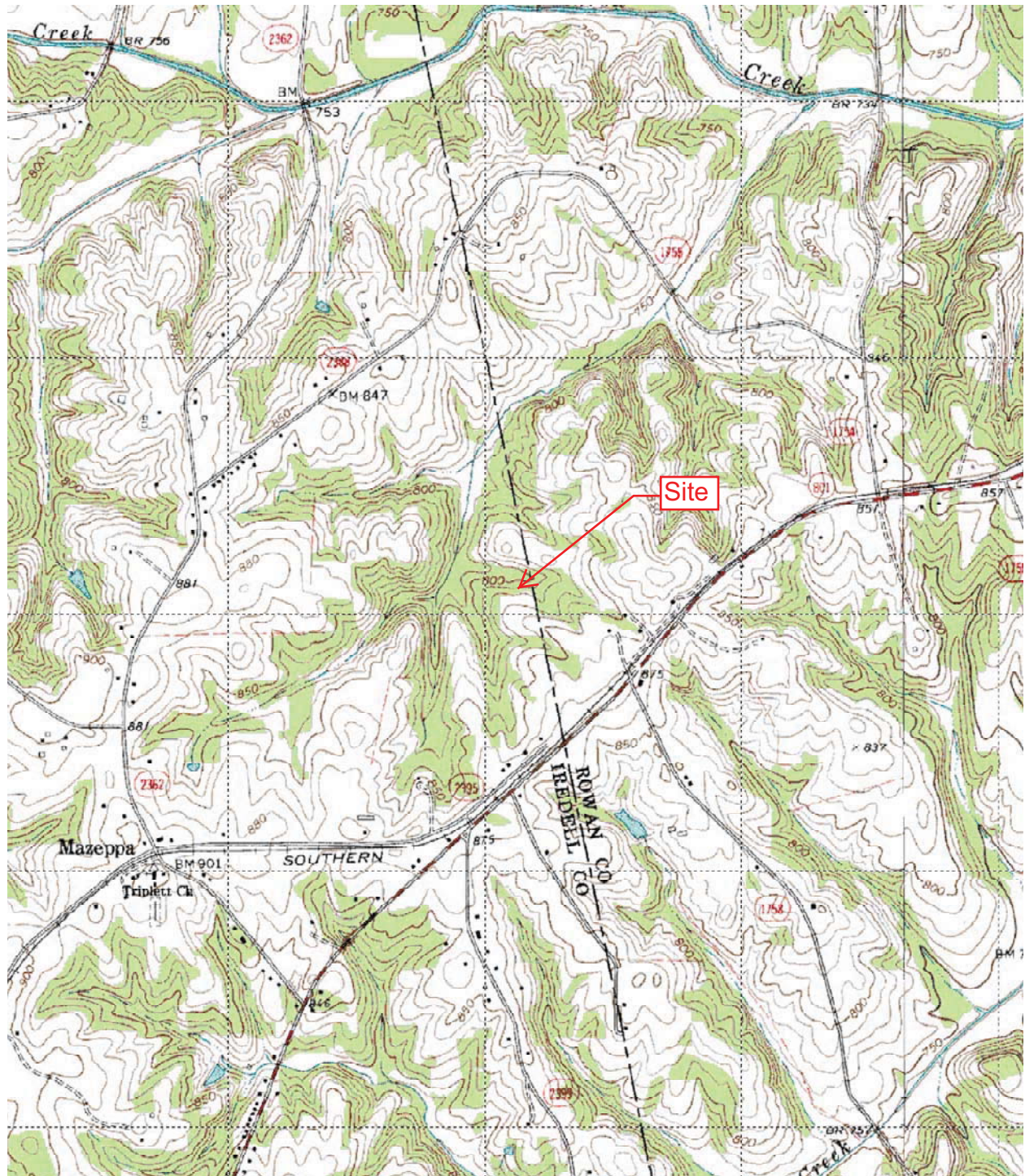
Seth Goad
Project Scientist



Ben Salter, REP
Principal Biologist

APPENDIX A

Figures



2000 0 2000 Feet

Source: USGS Topographic Quadrangle Map, 7.5 Minute Series, Shepherds, NC (1969)



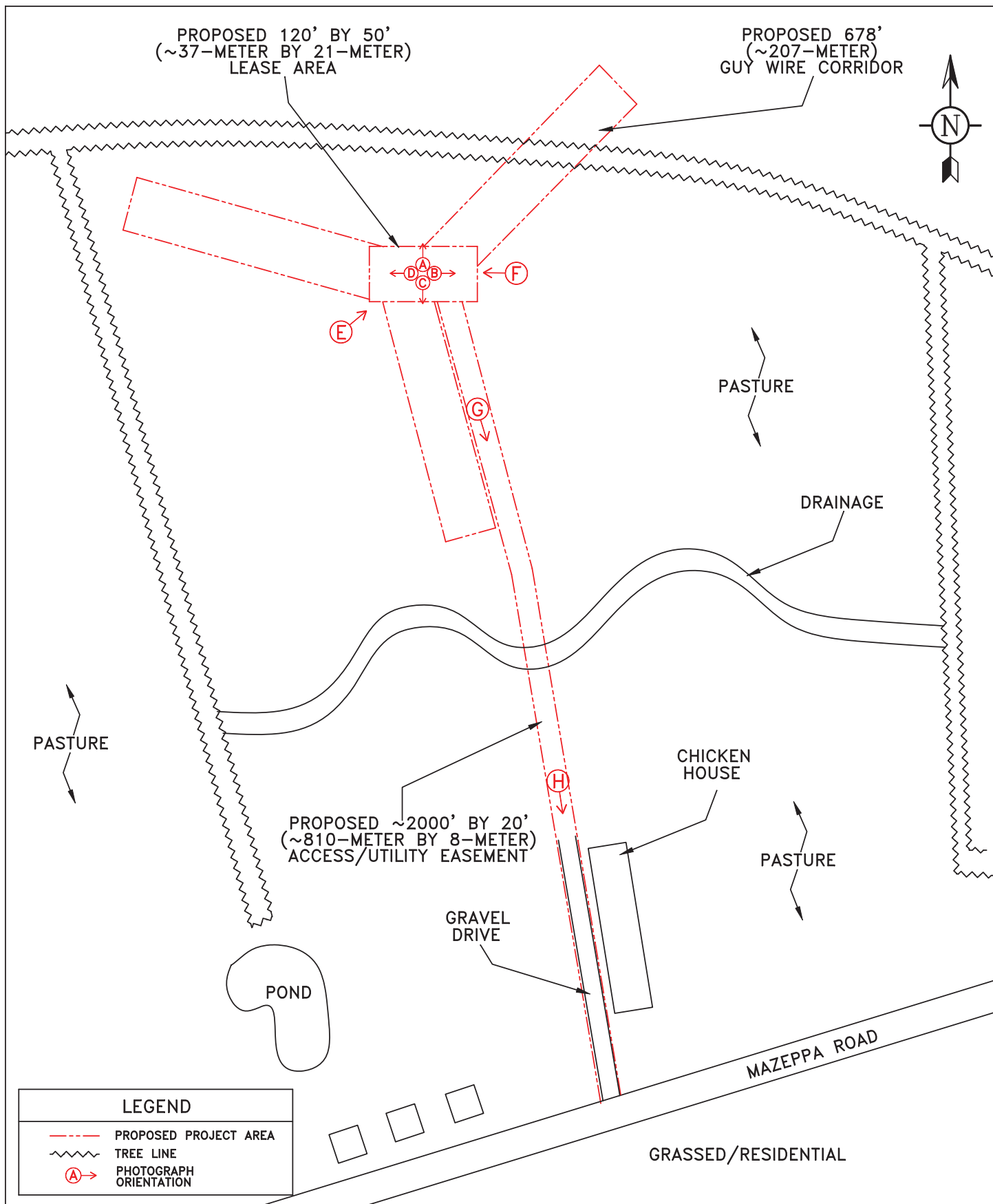
Davidson Investments, LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Figure 1: Site Location Plan



ECA Proj. #: P-984



Davidson Investments LLC – Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Figure 2: Site Vicinity Plan

SOURCE: ECA Site Visit, Survey, and Aerial
Photography

DRAWN BY: SDG

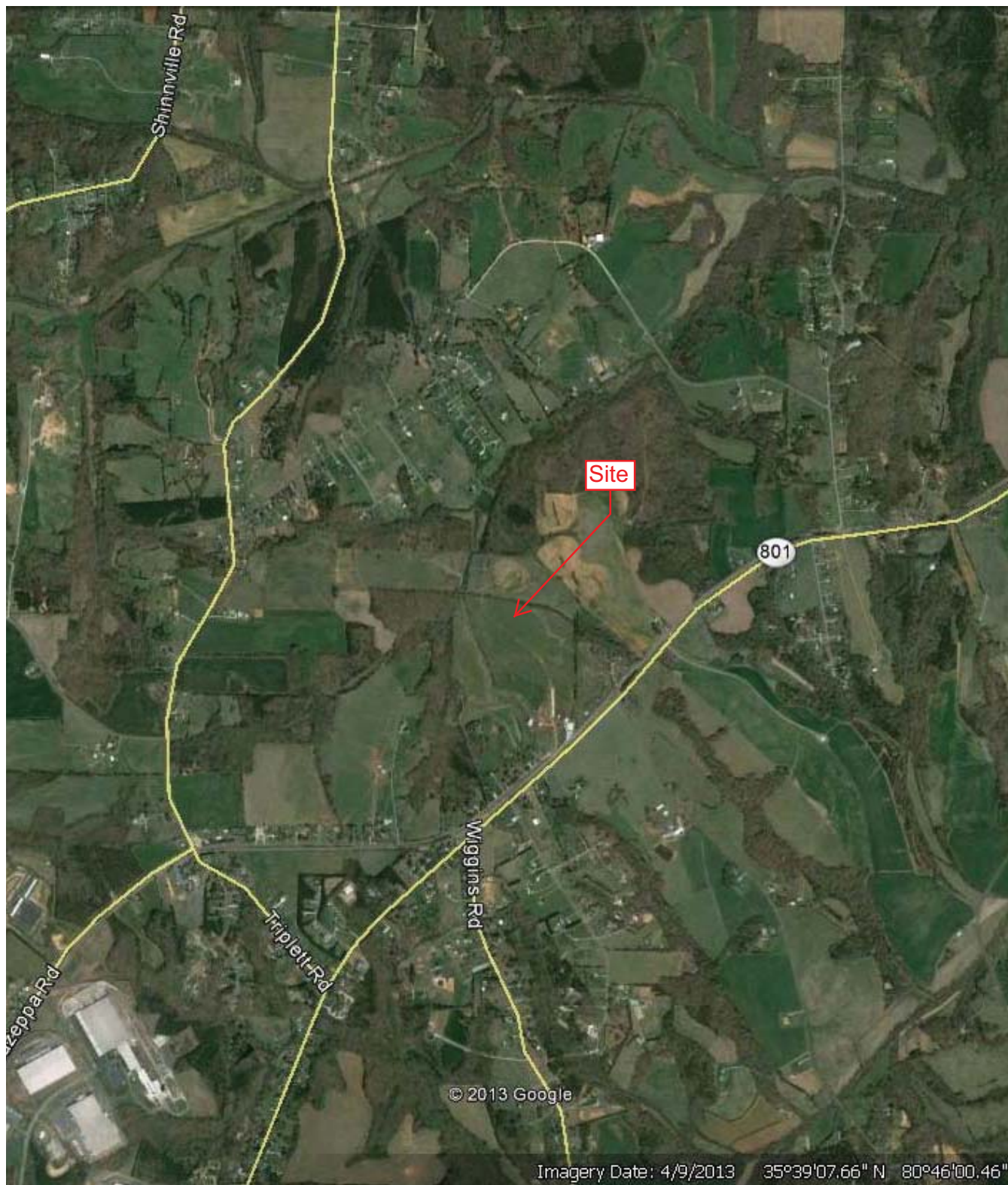
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NOT TO SCALE

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ECA Project # P-984



Source: Google Earth Aerial Photograph (2010)



Davidson Investments, LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Figure 3: Aerial Photograph



ECA Proj. #: P-984

APPENDIX B

Photographs



A: Northerly View From Near the Center of the Proposed Lease Area



B: Easterly View From Near the Center of the Proposed Lease Area

Davidson Investments, LLC - Edwards (WWLV 94.1FM Radio Tower)
1095 Mazeppa Road
 Mooresville, Iredell County, North Carolina
Photographs



ECA Proj. #: P-984



C: Southerly View From Near the Center of the Proposed Lease Area



D: Westerly View From Near the Center of the Proposed Lease Area

Davidson Investments, LLC - Edwards (WWLV 94.1FM Radio Tower)
 1095 Mazeppa Road
 Mooresville, Iredell County, North Carolina
 Photographs



ECA Proj. #: P-984



G: Southeasterly View Along the Proposed Access/Utility Easement



H: Southerly View Along the Proposed Access/Utility Easement

Davidson Investments, LLC - Edwards (WWLV 94.1FM Radio Tower)
 1095 Mazeppa Road
 Mooresville, Iredell County, North Carolina
 Photographs



ECA Proj. #: P-984

APPENDIX C

Protected Species Information

U.S. Fish & Wildlife Service

Endangered Species, Threatened Species, Federal Species of Concern, and Candidate Species,

Iredell County, North Carolina



Updated: 09-22-2010

Common Name	Scientific name	Federal Status	Record Status
Vertebrate:			
Allegheny woodrat	<i>Neotoma magister</i>	FSC	Current
Bog turtle	<i>Clemmys muhlenbergii</i>	T (S/A)	Current
Invertebrate:			
Vascular Plant:			
Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T	Current
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC	Historic
Nonvascular Plant:			
Lichen:			

Definitions of Federal Status Codes:

E = endangered. A taxon "in danger of extinction throughout all or a significant portion of its range."

T = threatened. A taxon "likely to become endangered within the foreseeable future throughout all or a significant portion of its range."

C = candidate. A taxon under consideration for official listing for which there is sufficient information to support listing. (Formerly "C1" candidate species.)

BGPA = Bald and Golden Eagle Protection Act. See below.

FSC = federal species of concern. A species under consideration for listing, for which there is insufficient information to support listing at this time. These species may or may not be listed in the future, and many of these species were formerly recognized as "C2" candidate species.

T(S/A) = threatened due to similarity of appearance. A taxon that is threatened due to similarity of appearance with another listed species and is listed for its protection. Taxa listed as T(S/A) are not biologically endangered or threatened and are not subject to Section 7 consultation. See below.

EXP = experimental population. A taxon listed as experimental (either essential or nonessential).

Experimental, nonessential populations of endangered species (e.g., red wolf) are treated as threatened species on public land, for consultation purposes, and as species proposed for listing on private land.

P = proposed. Taxa proposed for official listing as endangered or threatened will be noted as "PE" or "PT", respectively.

Bald and Golden Eagle Protection Act (BGPA):

In the July 9, 2007 Federal Register(72:37346-37372), the bald eagle was declared recovered, and removed (de-listed) from the Federal List of Threatened and Endangered wildlife. This delisting took effect August 8, 2007. After delisting, the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668-668d) becomes the primary law protecting bald eagles. The Eagle Act prohibits take of bald and golden eagles and provides a statutory definition of "take" that includes "disturb". The USFWS has developed National Bald Eagle Management Guidelines to provide guidance to land managers, landowners, and others as to how to avoid disturbing bald eagles. For mor information, visit <http://www.fws.gov/migratorybirds/baldeagle.htm>

Threatened due to similarity of appearance(T(S/A)):

In the November 4, 1997 Federal Register (55822-55825), the northern population of the bog turtle (from New York south to Maryland) was listed as T (threatened), and the southern population (from Virginia south to Georgia) was listed as T(S/A) (threatened due to similarity of appearance). The T(S/A) designation bans the collection and interstate and international commercial trade of bog turtles from the southern population. The T(S/A) designation has no effect on land management activities by private landowners in North Carolina, part of the southern population of the species. In addition to its official status as T(S/A), the U.S. Fish and Wildlife Service considers the southern population of the bog turtle as a Federal species of concern due to habitat loss.

Definitions of Record Status:

Current - the species has been observed in the county within the last 50 years.

Historic - the species was last observed in the county more than 50 years ago.

Obscure - the date and/or location of observation is uncertain.

Incidental/migrant - the species was observed outside of its normal range or habitat.

Probable/potential - the species is considered likely to occur in this county based on the proximity of known records (in adjacent counties), the presence of potentially suitable habitat, or both.

U.S. Fish & Wildlife Service

Endangered Species, Threatened Species, Federal Species of Concern, and Candidate Species,

Rowan County, North Carolina



Updated: 12-26-2012

Common Name	Scientific name	Federal Status	Record Status
Vertebrate:			
Bald eagle	<i>Haliaeetus leucocephalus</i>	BGPA	Current
Carolina darter	<i>Etheostoma collis collis</i>	FSC	Probable/potential
Robust redhorse	<i>Moxostoma robustum</i>	FSC	Historic
Invertebrate:			
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC	Current
Vascular Plant:			
Georgia aster	<i>Symphyotrichum georgianum</i>	C	Current
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC	Current
Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E	Current
Virginia quillwort	<i>Isoetes virginica</i>	FSC	Historic

Nonvascular Plant:

Lichen:

Definitions of Federal Status Codes:

E = endangered. A taxon "in danger of extinction throughout all or a significant portion of its range."

T = threatened. A taxon "likely to become endangered within the foreseeable future throughout all or a significant portion of its range."

C = candidate. A taxon under consideration for official listing for which there is sufficient information to support listing. (Formerly "C1" candidate species.)

BGPA =Bald and Golden Eagle Protection Act. See below.

FSC = federal species of concern. A species under consideration for listing, for which there is insufficient information to support listing at this time. These species may or may not be listed in the future, and many of these species were formerly recognized as "C2" candidate species.

T(S/A) = threatened due to similarity of appearance. A taxon that is threatened due to similarity of

appearance with another listed species and is listed for its protection. Taxa listed as T(S/A) are not biologically endangered or threatened and are not subject to Section 7 consultation. See below.
EXP = experimental population. A taxon listed as experimental (either essential or nonessential).
Experimental, nonessential populations of endangered species (e.g., red wolf) are treated as threatened species on public land, for consultation purposes, and as species proposed for listing on private land.
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Definitions of Record Status:

Current - the species has been observed in the county within the last 50 years.

Historic - the species was last observed in the county more than 50 years ago.

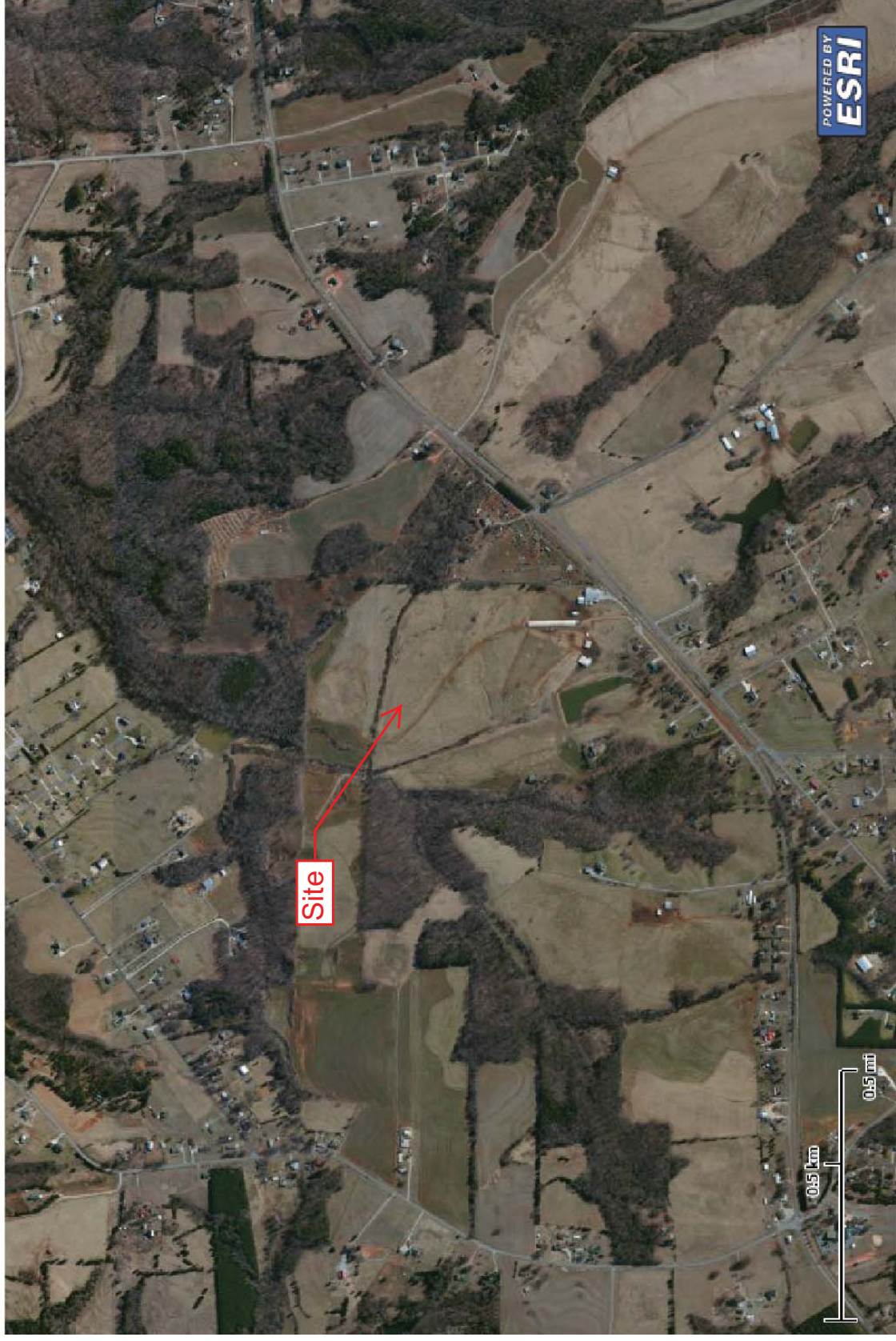
Obscure - the date and/or location of observation is uncertain.

Incidental/migrant - the species was observed outside of its normal range or habitat.

Probable/potential - the species is considered likely to occur in this county based on the proximity of known records (in adjacent counties), the presence of potentially suitable habitat, or both.

Critical Habitat Map

Powered by ArcGIS Server



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United States Department of Interior
Fish and Wildlife Service
Washington, DC 20240

September 14, 2000

To: Regional Directors

From: Director /s/ Jamie Rappaport Clark

Subject: Service Guidance on the Siting, Construction, Operation and Decommissioning of Communications Towers

Construction of communications towers (including radio, television, cellular, and microwave) in the United States has been growing at an exponential rate, increasing at an estimated 6 percent to 8 percent annually. According to the Federal Communication Commission's *2000 Antenna Structure Registry*, the number of lighted towers greater than 199 feet above ground level (AGL) currently number over 45,000 and the total number of towers over 74,000. Non-compliance with the registry program is estimated at 24 percent to 38 percent, bringing the total to 92,000 to 102,000. By 2003, all television stations must be digital, adding potentially 1,000 new towers exceeding 1,000 feet AGL.

The construction of new towers creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. Communications towers are estimated to kill 4-5 million birds per year, which violates the spirit and the intent of the Migratory Bird Treaty Act and the Code of Federal Regulations at Part 50 designed to implement the MBTA. Some of the species affected are also protected under the Endangered Species Act and Bald and Golden Eagle Act.

Service personnel may become involved in the review of proposed tower sitings and/or in the evaluation of tower impacts on migratory birds through National Environmental Policy Act review; specifically, Sections 1501.6, opportunity to be a cooperating agency, and 1503.4, duty to comment on federally-licensed activities for agencies with jurisdiction by law, in this case the MBTA, or because of special expertise. Also, the National Wildlife Refuge System Improvement Act requires that any activity on Refuge lands be determined as compatible with the Refuge system mission and the Refuge purpose(s). In addition, the Service is required by the ESA to assist other Federal agencies in ensuring that any action they authorize, implement, or fund will not jeopardize the continued existence of any Federally endangered or threatened species.

A Communication Tower Working Group composed of government agencies, industry, academic researchers and NGO's has been formed to develop and implement a research protocol to determine the best ways to construct and operate towers to prevent bird strikes. Until the research study is completed, or until research efforts uncover significant new mitigation measures, all Service personnel involved in the review of proposed tower sitings and/or the evaluation of the impacts of towers on migratory birds should use the attached interim guidelines when making recommendations to all companies, license applicants, or licensees proposing new tower sitings. These guidelines were developed by Service personnel from research conducted in several eastern, midwestern, and southern states, and have been refined through Regional review. They are based on the best information available at this time, and are the most prudent and effective measures for avoiding bird strikes at towers. We believe that they will provide significant protection for migratory birds pending completion of the Working Group's recommendations. As new information becomes available, the guidelines will be updated accordingly.

Implementation of these guidelines by the communications industry is voluntary, and our recommendations must be balanced with Federal Aviation Administration requirements and local

community concerns where necessary. Field offices have discretion in the use of these guidelines on a case by case basis, and may also have additional recommendations to add which are specific to their geographic area.

Also attached is a [Tower Site Evaluation Form](#) which may prove useful in evaluating proposed towers and in streamlining the evaluation process. Copies may be provided to consultants or tower companies who regularly submit requests for consultation, as well as to those who submit individual requests that do not contain sufficient information to allow adequate evaluation. This form is for discretionary use, and may be modified as necessary.

The Migratory Bird Treaty Act (16 U.S.C. 703-712) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the Act has no provision for allowing unauthorized take, it must be recognized that some birds may be killed at structures such as communications towers even if all reasonable measures to avoid it are implemented. The Service's Division of Law Enforcement carries out its mission to protect migratory birds not only through investigations and enforcement, but also through fostering relationships with individuals and industries that proactively seek to eliminate their impacts on migratory birds. While it is not possible under the Act to absolve individuals or companies from liability if they follow these recommended guidelines, the Division of Law Enforcement and Department of Justice have used enforcement and prosecutorial discretion in the past regarding individuals or companies who have made good faith efforts to avoid the take of migratory birds.

Please ensure that all field personnel involved in review of FCC licensed communications tower proposals receive copies of this memorandum. Questions regarding this issue should be directed to Dr. Benjamin Tuggle, Chief, Division of Habitat Conservation, at (703)358-2161, or Jon Andrew, Chief, Division of Migratory Bird Management, at (703)358-1714. These guidelines will be incorporated in a Director's Order and placed in the Fish and Wildlife Service Manual at a future date.

Service Interim Guidelines For Recommendations On

Communications Tower Siting, Construction, Operation, and Decommissioning

1. Any company/applicant/licensee proposing to construct a new communications tower should be strongly encouraged to collocate the communications equipment on an existing communication tower or other structure (*e.g.*, billboard, water tower, or building mount). Depending on tower load factors, from 6 to 10 providers may collocate on an existing tower.
2. If collocation is not feasible and a new tower or towers are to be constructed, communications service providers should be strongly encouraged to construct towers no more than 199 feet above ground level (AGL), using construction techniques which do not require guy wires (*e.g.*, use a lattice structure, monopole, etc.). Such towers should be unlighted if Federal Aviation Administration regulations permit.
3. If constructing multiple towers, providers should consider the cumulative impacts of all of those towers to migratory birds and threatened and endangered species as well as the impacts of each individual tower.
4. If at all possible, new towers should be sited within existing "antenna farms" (clusters of towers). Towers should not be sited in or near wetlands, other known bird concentration areas (*e.g.*, state or

Federal refuges, staging areas, rookeries), in known migratory or daily movement flyways, or in habitat of threatened or endangered species. Towers should not be sited in areas with a high incidence of fog, mist, and low ceilings.

5. If taller (>199 feet AGL) towers requiring lights for aviation safety must be constructed, the minimum amount of pilot warning and obstruction avoidance lighting required by the FAA should be used. Unless otherwise required by the FAA, only white (preferable) or red strobe lights should be used at night, and these should be the minimum number, minimum intensity, and minimum number of flashes per minute (longest duration between flashes) allowable by the FAA. The use of solid red or pulsating red warning lights at night should be avoided. Current research indicates that solid or pulsating (beacon) red lights attract night-migrating birds at a much higher rate than white strobe lights. Red strobe lights have not yet been studied.
6. Tower designs using guy wires for support which are proposed to be located in known raptor or waterbird concentration areas or daily movement routes, or in major diurnal migratory bird movement routes or stopover sites, should have daytime visual markers on the wires to prevent collisions by these diurnally moving species. (For guidance on markers, see *Avian Power Line Interaction Committee (APLIC). 1994. Mitigating Bird Collisions with Power Lines: The State of the Art in 1994. Edison Electric Institute, Washington, D.C., 78 pp*, and *Avian Power Line Interaction Committee (APLIC). 1996. Suggested Practices for Raptor Protection on Power Lines. Edison Electric Institute/Raptor Research Foundation, Washington, D.C., 128 pp*. Copies can be obtained via the Internet at <http://www.eei.org/resources/pubcat/enviro/>, or by calling 1-800/334-5453).
7. Towers and appendant facilities should be sited, designed and constructed so as to avoid or minimize habitat loss within and adjacent to the tower “footprint”. However, a larger tower footprint is preferable to the use of guy wires in construction. Road access and fencing should be minimized to reduce or prevent habitat fragmentation and disturbance, and to reduce above ground obstacles to birds in flight.
8. If significant numbers of breeding, feeding, or roosting birds are known to habitually use the proposed tower construction area, relocation to an alternate site should be recommended. If this is not an option, seasonal restrictions on construction may be advisable in order to avoid disturbance during periods of high bird activity.
9. In order to reduce the number of towers needed in the future, providers should be encouraged to design new towers structurally and electrically to accommodate the applicant/licensee’s antennas and comparable antennas for at least two additional users (minimum of three users for each tower structure), unless this design would require the addition of lights or guy wires to an otherwise unlighted and/or unguyed tower.
10. Security lighting for on-ground facilities and equipment should be down-shielded to keep light within the boundaries of the site.
11. If a tower is constructed or proposed for construction, Service personnel or researchers from the Communication Tower Working Group should be allowed access to the site to evaluate bird use, conduct dead-bird searches, to place net catchments below the towers but above the ground, and to place radar, Global Positioning System, infrared, thermal imagery, and acoustical monitoring equipment as necessary to assess and verify bird movements and to gain information on the impacts of various tower sizes, configurations, and lighting systems.

12. Towers no longer in use or determined to be obsolete should be removed within 12 months of cessation of use.

In order to obtain information on the extent to which these guidelines are being implemented, and to identify any recurring problems with their implementation which may necessitate modifications, letters provided in response to requests for evaluation of proposed towers should contain the following request:

“In order to obtain information on the usefulness of these guidelines in preventing bird strikes, and to identify any recurring problems with their implementation which may necessitate modifications, please advise us of the final location and specifications of the proposed tower, and which of the measures recommended for the protection of migratory birds were implemented. If any of the recommended measures can not be implemented, please explain why they were not feasible.”

Return to [Home Page](#)

APPENDIX D

Tower Site Evaluation Form

TOWER SITE EVALUATION FORM

1. Location (Provide maps if possible):

State: NC County: Iredell

Latitude/Longitude/GPS Grid: N 35° 39' 5.0" W 80° 46' 1.0"

Directions: From Mooresville; Head NW on W Iredell Ave; Take first right onto N Broad Street; Turn Right onto NC-150 E/Oakridge Farm Hwy; Turn left onto NC-801 N/Park Ave; Turn left onto State Road 2400; Turn right onto Mazeppa Road; the site is located at the end of Mazeppa Road.

2. Elevation above mean sea level: 814'

3. Will the equipment be co-located on an existing **FCC licensed tower** or other existing structure (building, billboard, etc.)? (y/n) No If yes, type of structure: _____

If yes, no further information is required.

4. If no, provide proposed specifications for new tower:

Height 1,180' Construction type (lattice, monopole, etc.): Guyed

Guy-wired? (y/n) Yes No. Bands: 0 Total No. Wires: 3

Lighting (Security & Aviation): Yes (FAA style F)

If tower will be lighted or guy-wired, complete items 5-19. If not, complete only items 19 and 20.

5. Area of tower footprint in acres or square feet: 6,000 square feet

6. Length and width of access road in feet: ~2,000' by 20'

7. General description of terrain – mountainous, rolling hills flat to undulation, etc.
Photographs of the site and surrounding area are beneficial: undulation

8. Meteorological conditions (incidence of fog, low ceilings, etc.): _____

9. Soil type(s): Cecil sandy clay loam, Chewacla loam, Pacolet sandy loam

10. Habitat types and land use on and adjacent to the site, by acreage and percentage of total: _____

11. Dominant vegetative species in each habitat: Grasses

12. Average diameter breast height of dominant tree species in forested areas: NA

13. Will construction at this site cause fragmentation of a larger block of habitat into two or more smaller blocks? (y/n) NO If yes, describe: _____
14. Is evidence of birds roosts or rookeries present? (y/n) NO If yes, describe: _____
15. Distance to nearest wetland area (forested swamp, marsh, riparian, marine, etc.), and coastline if applicable: ~10,500 feet to the Northeast
16. Distance to nearest telecommunications tower: unknown
17. Potential for co-location of antennas on existing towers or other structures: NO
18. Have measures been incorporated to minimizing impacts to migratory birds? (y/n) Yes,
lighting would not include any red strobes or red steady lights
19. Has an evaluation been made to determine if proposed facility may affect listed or proposed endangered or threatened species or their habitat as required by FCC regulation at 47 CFR 1.1307(a)(3)? (y/n) Yes If, yes present findings: View report
20. Additional information required:

APPENDIX E

Qualified Biologist Resume



Ben Salter, PWS

Principal Scientist

1340 Patton Avenue, Suite K, Asheville, NC 28806

(828) 505-0755

ben.salter@eca-usa.com

EDUCATION

Western Carolina University

Master of Science, Biology, August 2004

Cullowhee, NC

Georgia College & State University

Bachelor of Science, Biology, December 1998

Chemistry Minor

Milledgeville, GA

Short Courses/Specialized Training

SonoBat Workshop, 2013

Overview of NHPA Section 106, 2013

GA DOT Coastal Wetland Plant Identification w/ Dr. Bob Mohlenbrock, 2010

Airports Council International – North American NEPA Workshop, 2009

NC State Stream Restoration Design Principles, 2007

Rosgen Level 1 – Applied Fluvial Geomorphology, 2006

VDEQ Stream Impact and Compensation Assessment Manual Workshop, 2006

VIMS Perennial Stream Workshop, 2005

Pikeville, TN

Virtual Classroom

Brunswick, GA

Kansas City, MO

Asheville, NC

Asheville, NC

Norfolk, VA

Gloucester, VA

PROFESSIONAL REGISTRATIONS

National Registry of Environmental Professionals, Registered Environmental Professional, 2007 to present

Society of Wetland Scientists, Professional Wetland Scientist, 2012 to present

PROFESSIONAL EXPERIENCE

November 2007 – Present

Environmental Corporation of America

Asheville, NC

Position: Principal Scientist, Office Manager

Responsibilities:

Principal Scientist for Phase I ESA, NEPA, Ecological, and Wetlands related projects; Manager of ECA's Asheville, NC office; Responsible for client management, final review, oversight, and/or field effort for ecological and wetlands related projects, preparation of wetlands and ecological permitting documents; review of Phase I ESA, environmental, and NEPA documents.

April 2006 – November 2007

Blue Ridge Ecological

Waynesville, NC

Position: Principal Scientist, Partner

Responsibilities:

Partner/Principal Scientist in natural resource management firm focused on fisheries/lake management, watershed assessment, water quality monitoring, and biological assessment.

January 2005 – November 2007

Malcolm Pirnie, Inc.

Newport News, VA

Position: Project Environmental Scientist

Responsibilities:

Wetland and Stream Scientist, National Environmental Policy Act Specialist, and Environmental Scientist; Primary responsibilities included EA and EIS writer, wetland and stream field scientist, and environmental site assessor.

August 2002 – December 2004

Western Carolina University

Cullowhee, NC

Position: Research and Teaching Assistant

Responsibilities:

Fisheries Scientist and Biology/Ecology Laboratory Instructor

May 2003 – September 2003 **United States Forest Service**

Asheville, NC

Position: Biological Science Technician

Responsibilities:

Fisheries scientist for southern Appalachian brook trout project. Collected brook trout tissue samples in headwater streams throughout Western North Carolina and conducted genetic analysis for determining origin.

January 1999 – May 2001

Environmental Corporation of America

Alpharetta, GA

Position: Project Scientist/Manager

Responsibilities:

Project manager for environmental projects including Phase I and II Environmental Assessments, FCC NEPA assessment, asbestos and lead-based paint inspection, and abatement monitoring and specification preparation, cultural resource assessments, threatened and endangered species surveys, wetland delineation, groundwater monitoring and remediation system installation, geotechnical investigation, construction materials testing, and telecommunications tower construction plan review.

JOURNAL PUBLICATIONS

Miller, JR, **EB Salter**, JB Anderson, PJ Lechler, SL Kondrad, PF Galbreath. 2005. Influence of Temporal Variations in Water Chemistry on the Pb Isotopic Compositions of Rainbow Trout (*Oncorhynchus mykiss*). Science of the Total Environment, 350, p. 204-224.

REPRESENTATIVE EXPERIENCE

USACE and NC DWQ Individual Section 404/401 Permits and CAMA Consistency

Proposed Telecommunications Facility, Carteret County, North Carolina

US Forest Service Biological Evaluation

Proposed Eastern Band of Cherokee Indians Snowbird Community Center, Nantahala National Forest, Robbinsville, North Carolina

Protected Species Evaluations/ USFWS and State Wildlife Agency Consultations

Combined Project Manager and Principal Biologist Participation in Thousands of Projects Nationwide

Instream Structure and Bank Stabilization USACE Permitting

Proposed Eastern Band of Cherokee Indians Old River Road Reconstruction

Assessment of Culverts for Fish Passage

Eastern Band of Cherokee Indians Reservation, Cherokee, North Carolina

Burrowing Owl Pre-Construction Survey

Proposed Telecommunications Tower, Perris, California

Bureau of Land Management Biological Assessment

Right of Way Assignment Effects on *Sclerocactus glaucus*, Grand Junction, Colorado

Indiana Bat Roosting Habitat and Emergence Surveys

Multiple Sites throughout the Southeastern United States

Environmental Impact Statement / Feasibility Study for Flood Damage Reduction and Ecosystem Restoration, US

Army Corps of Engineers and James River Water Development District, James River, South Dakota

Critical Habitat Consultation

Proposed Telecommunications Tower Facility, Norman, Oklahoma

US Department of Housing and Urban Development NEPA Environmental Assessment

Proposed Old #4 Sewer Line Replacement, Cherokee, North Carolina

US Army Corps of Engineers and Virginia Port Authority Environmental Impact Statement

Craney Island Dredged Material Disposal Area Expansion and Subsequent Virginia Port Authority Craney Island Terminal Construction, Portsmouth, Virginia

EPA 319 Watershed Management Plan

Chestatee-Chattahoochee RC&D Mud and Little Mud Creek, Habersham County, Georgia

USACE Wetland/Stream Delineations and USACE/State Section 404/401 Permitting

Alabama, Delaware, Georgia, Florida, Illinois, Louisiana, Mississippi, North Carolina, New York, Ohio, South Carolina, South Dakota, Virginia, and West Virginia

US Department of Justice NEPA Environmental Assessment

Proposed Eastern Band of Cherokee Indians Correctional Facility, Cherokee, NC

Wetlands Delineation

Over 2000 acres, City of Jacksonville Land Treatment System Expansion, Onslow County, North Carolina

Bureau of Indian Affairs NEPA Environmental Assessment

Mary Lambert Farm Road Improvement Project, Cherokee, North Carolina

FCC NEPA Evaluation and Environmental Assessment and USACE Section 404 Permitting

Proposed Telecommunications Facility, Mecklenburg County, North Carolina

US Economic Development Administration, NEPA Environmental Assessment

Proposed Eastern Band of Cherokee Indians Lower Soco Creek Sewer Line Replacement, Cherokee, North Carolina

Federal Highway Administration NEPA Environmental Assessment

Old River Road Improvement Project, Cherokee, NC

US Forest Service NEPA Environmental Assessment

Proposed Eastern Band of Cherokee Indians Snowbird Community Center, Nantahala National Forest, Robbinsville, North Carolina

Multi-Day Active Osprey Nest Monitoring

Telecommunications Tower Activities, Wilmington Island, GA

Individual Permit Application and State Environmental Policy Act Documentation

City of Jacksonville Land Treatment System Expansion, Onslow County, North Carolina

USACE and FDEP Wetlands Individual Permit and Mitigation

Proposed Telecommunications Facility, Walton County, Florida

USACE and St. Johns River Water Management District Wetlands Permitting and Mitigation

Proposed Telecommunications Facility, Fellsmere, FL

USACE and St. Johns River Water Management District Wetlands Permitting and Mitigation

Proposed Telecommunications Facility, Jacksonville, FL

Bureau of Indian Affairs NEPA Environmental Assessment

Hunting Boy Branch Road Improvement Project, Graham County, North Carolina

Federal Communications Commission NEPA Investigations

Combined Project Manager and Project Principal Participation in Thousands of Projects Nationwide

Intensive Survey for the Federally Threatened Dwarf-Flowered Heartleaf

Multiple Projects, Western North Carolina

Evaluation of Ecosystem Restoration and Flood Damage Reduction Measures on the Federally Endangered Topeka Shiner

James River Basin, South Dakota

Wetland Delineation and Mapping of Eastern Band of Cherokee Indians Reservation

Field Scientist and Project Principal for Delineation of Over 70 Individual Wetland Systems, Cherokee, North Carolina

Communications Antenna Support Structure Osprey Nest Activity Surveys

Field Scientist and Project Principal Participation in Many Sites Throughout the Southeastern US

Phase I Environmental Site Assessments

Combined Project Manager and Project Principal Participation in Thousands of Projects Nationwide

Phase II Environmental Assessments, UST Removals, Groundwater Monitoring Events, and Petroleum and Chlorinated Solvent Remediation System Installations

Multiple Projects in Southeastern and Midwestern United States

Baseline Water Quality Testing and Benthic and Fish Assemblage Assessment

City of Hiawassee, Hiawassee, Georgia

Ecological Risk Assessment

Brown's Lake, Fort Eustis, Newport News, Virginia

Benthic, Geomorphology, and Water Quality Evaluation

Upper Occoquan Sewage Authority, Bull Run, Manassas, Virginia

Fisheries Assessment and Management Plan Development

750-Acre Lake Lure, North Carolina

Fisheries Assessment and Management Plan Development

Lake Ravenel, Highlands, North Carolina

Brook Trout Genetic Typing, Population Estimate, Habitat Survey, and Restoration

Multiple Projects throughout Western North Carolina

VA Environmental Impact Reports

Multiple Projects for Virginia Port Authority and Virginia Department of Juvenile Justice

Evaluation of Lead Isotopic Composition of Freshwater Snails of Richland Creek Basin

Masters Thesis, Waynesville, North Carolina

Asbestos and Lead-Based Paint Inspections, Abatement Monitoring, and Preparation of Abatement Specifications

Multiple Projects throughout Georgia

Geotechnical Investigations and Construction Materials Testing

Cell Tower and Fiber Optic Communications Infrastructure – Multiple Projects Nationwide

APPENDIX E

Historic and Archaeological Documentation



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

November 22, 2013

North Carolina Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

Attention: **Renee Gledhill-Earley**
Environmental Review Coordinator

Subject: **Project Update**
TCNS ID #97346
Proposed 1,190-Foot (Overall Height) Guyed Communications Structure
Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell and Rowan Counties, North Carolina
ECA Project #: P-984

Dear Ms Gledhill-Early:

On August 29, 2013, Environmental Corporation of America (ECA) submitted Section 106 Review documentation on behalf of our client, Davidson Investments LLC, for the project described above to the North Carolina Historic Preservation Office (NC SHPO). The proposed undertaking described in the Section 106 Review included a proposed 120-foot long by 70-foot wide (37 meter by 21 meter) lease area that would include a 1,180-foot (overall height) guyed telecommunications structure, and would be accessible via a proposed 2,000-foot long by 20-foot wide (610 meter by 6 meter) access/utility easement.

On July 16, 2013, ECA submitted a Communications Tower Review Form to NC SHPO. A finding stating, "The proposed communication tower will not affect historic properties in the area of potential effect" was issued by NC SHPO in an emailed letter dated, July 22, 2013.

Following NC SHPO's July 22, 2013 response, the proposed tower height was changed from 1,180 feet (overall height) to 1,190 feet (overall height). The proposed lease area and proposed access/utility easement would remain in the same location. The coordinates for the center of the proposed lease area would remain:

35° 39' 5" N
80° 46' 1" W

Based the initial finding of "no effect" on historic properties in the area and the proposed minimal height increase, ECA maintains that this proposed facility would have no effect on any Historic Properties identified in accordance with the NPA.

Ms. Renee Gledhill-Early

Page 2 of 2

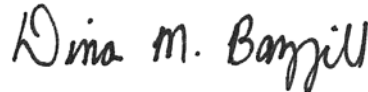
We are submitting this courtesy letter on behalf of Davidson Investments LLC in order to update your records. Please contact our office, (828) 505-0755, with any questions or comments.

Sincerely,

Environmental Corporation of America

A handwritten signature in cursive script, appearing to read "Seth Goad".

Seth Goad
Project Manager

A handwritten signature in cursive script, appearing to read "Dina M. Bazzill".

Dina M. Bazzill, MA, RPA
Principal Investigator

Communications Tower Review Form



I. Applicant Information:

Preparer/Company: Environmental Corporation of America
Address: 1340 Patton Avenue, Suite K, Asheville, NC 28806
Phone/Fax/E-mail: P: 828-505-0755 F: 828-505-0959 / seth.goad@eca-usa.com

For North Carolina HPO
Use Only

CT 13-1450

II. Tower Information:

 (Attach copy of USGS map or photocopy of quad on reverse; include 1 and 2 mile radius around site)

☒ Raw Land (New) ☐ Co-Location Applicant's Identification # _____
Address: 1095 Mazeppa Road
County: Iredell County, North Carolina FCC Registration No. _____
Tower type and height: Guyed 1,130 feet Quad Name: Shepherds, NC (1969)
(1,180 ft. overall height)

III. Identification of Historic Properties

List sites by site number and status: NR = National Register listed; SL = Study List; DOE = Determination of Eligibility;
LD = Local Designation; UA = Unassessed

Archaeology

of recorded sites in immediate area of tower: 2

Architecture

of recorded sites within 1.5-mile radius: _____

IV. Additional Information/Investigation Needed:

NA Survey
NA Testing of sites _____
Recommended by/on: Am 7/13/18
(Office of State Archaeology)

_____ Photo Reconnaissance
_____ Balloon Test

Recommended by/on: _____
(Survey & Planning Branch)

V. Recommendations/Final Determination:

_____ Recommendations for additional work are shown above.

☒ The proposed communication tower will NOT affect historic properties in the area of potential effect.

Renee Gledhill-Earley
Renee Gledhill-Earley, Environmental Review Coordinator

7.22.13
Date

cc: FCC

February, 2001

JUL 17 2013



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

Section 106 Review

TCNS ID 97346

Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)

**Davidson Investments LLC -
Edwards (WWLV 94.1 FM
Radio Tower)**

**1095 Mazeppa Road
 Mooresville, Iredell County,
North Carolina**

ECA Project #: P-984



SUBMITTED TO:

Renee Gledhill-Earley
North Carolina Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

PREPARED BY:

Environmental Corporation of America
1375 Union Hill Industrial Court, Suite A
Alpharetta, GA 30004



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

August 28, 2013

North Carolina Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

Attention: **Renee Gledhill-Earley**
Environmental Review Coordinator

Subject: **Section 106 Review**
TCNS ID #97346
Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell County, North Carolina
ECA Project #: P-984

Dear Ms. Gledhill-Early:

Environmental Corporation of America's (ECA) client, Davidson County Broadcasting, Inc is proposing to construct a 1,180-foot (overall height) guyed communications tower structure as described in the following FCC Form 620, New Tower (NT) Submission Packet. The tower structure would be constructed within a proposed approximately 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area. The proposed undertaking would also include the improvement of an approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement and three approximately 678-foot long (~207-meter) guy wire corridors.

ECA has identified and evaluated Historic Properties, if any, within the Area of Potential Effect (APE) for visual and direct effects as directed in Section VI.D.1 and 2 of the Nationwide Programmatic Agreement, effective on March 7, 2005. We have found no properties listed in or eligible for listing on the National Register of Historic Places (NRHP) within either APE.

The North Carolina Historic Preservation Office (NC SHPO), Survey and Planning Branch, has researched their files for previously identified historic resources within the proposed project's APE for visual effects. NC SHPO has determined that no previously identified historic resources were documented within the proposed project's APE for visual effects.

An Archaeological Assessment was conducted within the APE for direct effects. The NC SHPO office of State Archaeology searched their databases for previously recorded archaeological sites or surveys within the project's APE for direct effects and no previously recorded archaeological sites or surveys were identified. In addition, ECA conducted a Phase I Archaeological assessment of the proposed project site on August 14, 2013. During our fieldwork, we discovered no archaeological sites and uncovered no archaeological cultural artifacts (see Attachment E-1c).

In summary, on July 22, 2013, the NC SHPO issued a finding stating, "The proposed communication tower will not affect historic properties in the area of potential effect" (Attachment H). Based on this documentation, prepared in accordance with the Nationwide Programmatic Agreement effective March 7, 2005, ECA concurs with the NC SHPO finding stating that the proposed facility would have no effect on any Historic Properties identified in accordance with the NPA. Therefore, we recommend a finding of "No Effect" for the proposed undertaking.

We are submitting this report for Davidson County Broadcasting, Inc. to seek concurrence with this finding and to comply with Federal Communications Commission (FCC) requirements as identified in 47 CFR 1.1307. We request your concurrence with our finding. Please contact our office with any questions or comments.

Sincerely,
Environmental Corporation of America



Seth Goad
Project Manager



Dina M. Bazzill, MA, RPA
Principal Investigator

**FCC Wireless Telecommunications Bureau
New Tower ("NT") Submission Packet**

Approved by OMB
3060 – 1039
See instructions for
public burden estimates

General Information

1) (Select only one) (NE) NE – New UA – Update of Application WD – Withdrawal of Application	
2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.	File Number:

Applicant Information

3) FCC Registration Number (FRN): 0005023411
4) Name: Davidson County Broadcasting, Inc

Contact Name

5) First Name: Gig	6) MI:	7) Last Name: Hilton	8) Suffix:
9) Title:			

Contact Information

10) P.O. Box:	And /Or	11) Street Address:	
12) City:		13) State:	14) Zip Code:
15) Telephone Number: 336-248-2716		16) Fax Number:	
17) E-mail Address: GHilton@dcbi.net			

Consultant Information

18) FCC Registration Number (FRN): 0011662921
19) Name: Environmental Corporation of America

Principal Investigator

20) First Name: Dina	21) MI: M	22) Last Name: Bazzill	23) Suffix:
24) Title: MA, RPA - Principal Archaeologist / Principal Historian			

Principal Investigator Contact Information

25) P.O. Box:	And /Or	26) Street Address: 1375 Union Hill Industrial Court, Suite A	
27) City: Alpharetta		28) State: GA	29) Zip Code: 30004
30) Telephone Number: 770-667-2040 x 111		31) Fax Number: 770-667-2041	
32) E-mail Address: dina.bazzill@eca-usa.com			

Professional Qualification

33) Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?	<input checked="" type="checkbox"/> <u>Y</u> es <input type="checkbox"/> <u>N</u> o
34) Areas of Professional Qualification: (<input checked="" type="checkbox"/>) Archaeologist () Architectural Historian (<input checked="" type="checkbox"/>) Historian () Architect () Other (Specify) _____	

Additional Staff

35) Are there other staff involved who meet the Professional Qualification Standards of the Secretary of the Interior?	<input type="checkbox"/> <u>Y</u> es <input checked="" type="checkbox"/> <u>N</u> o
--	---

If "Yes", complete the following:

36) First Name:	37) MI:	38) Last Name:	39) Suffix:
40) Title:			
41) Areas of Professional Qualification: () Archaeologist () Architectural Historian () Historian () Architect () Other (Specify) _____			

This page may be copied to include additional staff.
Consultant Information Attachments required – See instructions for details.

Site Information

Tower Construction Notification System

1) TCNS Notification Number: 97346

Site Information

2) Site Name: Edwards (WWLV 94.1 FM Radio Tower)

3) Site Address: 1095 Mazeppa Road

4) City: Mooresville

5) State: NC

6) Zip Code:

7) County/Borough/Parish: Iredell County

8) Nearest Crossroads: Mazeppa Road and Sloop Road

9) NAD 83 Latitude (DD-MM-SS.S): 35-39-5.0

(☒) **N** or (☐) **S**

10) NAD 83 Longitude (DD-MM-SS.S): 80-46-1.0

(☐) **E** or (☒) **W**

Tower Information

11) Tower height above ground level (include top-mounted attachments such as lightning rods): 1180 (☒) Feet (☐) Meters

12) Tower Type (Select One):

(☒) Guyed lattice tower

(☐) Self-supporting lattice

(☐) Monopole

(☐) Other (Describe):

Project Status

13) Current Project Status (Select One):

(☒) Construction has not yet commenced

(☐) Construction has commenced, but is not completed

Construction commenced on: ____/____/____

(☐) Construction has been completed

Construction commenced on: ____/____/____

Construction completed on: ____/____/____

Site Information Attachments required – See instructions for details.

Determination of Effect

14) Direct Effects (Select One):

- (☒) No Historic Properties in Area of Potential Effects (APE)
(☐) No Effect on Historic Properties in APE
(☐) No Adverse Effect on Historic Properties in APE
(☐) Adverse Effect on one or more Historic Properties in APE

15) Visual Effects (Select One):

- (☒) No Historic Properties in Area of Potential Effects (APE)
(☐) No Effect on Historic Properties in APE
(☐) No Adverse Effect on Historic Properties in APE
(☐) Adverse Effect on one or more Historic Properties in APE

Determination of Effect Attachments required – See instructions for details.

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) Yes () No
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>97346</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: <u>None</u> Number of Tribes/NHOs: <u>NA</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Tuscarora Nation

Contact Name

5) First Name: <u>Leo</u>	6) MI: <u>R</u>	7) Last Name: <u>Henry</u>	8) Suffix:
9) Title: <u>Chief</u>			

Dates & Response

10) Date Contacted <u>7</u> / <u>19</u> / <u>13</u>	11) Date Replied ____ / ____ / ____
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other <u>Requested 30-Day Response Limit Agreement</u>	

This page may be copied to include additional Tribes/NHOs contacted.

Tribal/NHO Involvement Attachments may be required – See instructions for details.

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>97346</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: <u>None</u> Number of Tribes/NHOs: <u>NA</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Cherokee Nation

Contact Name

5) First Name: Richard	6) MI: L	7) Last Name: Allen	8) Suffix:
9) Title: Policy Analyst			

Dates & Response

10) Date Contacted <u>7 / 19 / 13</u>	11) Date Replied <u> / / </u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other <u>Standing request for Archaeological Assessment then 30-day response limit agreement</u>	

This page may be copied to include additional Tribes/NHOs contacted.

Tribal/NHO Involvement Attachments may be required – See instructions for details.

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>97346</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: <u>None</u> Number of Tribes/NHOs: <u>NA</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: <u>Eastern Shawnee Tribe of Oklahoma</u>

Contact Name

5) First Name: <u>Robin</u>	6) MI:	7) Last Name: <u>Dushane</u>	8) Suffix:
9) Title: <u>THPO</u>			

Dates & Response

10) Date Contacted <u>7</u> / <u>19</u> / <u>13</u>	11) Date Replied <u> </u> / <u> </u> / <u> </u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other <u>Requested Archaeology Assessment, SHPO Response, and Review Fee</u>	

This page may be copied to include additional Tribes/NHOs contacted.

Tribal/NHO Involvement Attachments may be required – See instructions for details.

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>97346</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: <u>None</u> Number of Tribes/NHOs: <u>NA</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: <u>Shawnee Tribe</u>

Contact Name

5) First Name: <u>Kim</u>	6) MI:	7) Last Name: <u>Jumper</u>	8) Suffix:
9) Title: <u>THPO</u>			

Dates & Response

10) Date Contacted <u>7</u> / <u>19</u> / <u>13</u>	11) Date Replied <u> </u> / <u> </u> / <u> </u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other <u>Requested Archaeology Assessment, SHPO response, and review fee</u>	

This page may be copied to include additional Tribes/NHOs contacted.

Tribal/NHO Involvement Attachments may be required – See instructions for details.

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>94986</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: <u>None</u> Number of Tribes/NHOs: <u>NA</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: <u>Catawba Indian Nation Cultural Preservation Project</u>

Contact Name

5) First Name: <u>Wenonah</u>	6) MI: <u>G</u>	7) Last Name: <u>Haire</u>	8) Suffix:
9) Title: <u>THPO and Executive Director</u>			

Dates & Response

10) Date Contacted <u>7 / 19 / 13</u>	11) Date Replied <u> / / </u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other <u>Requested Limited Section 106 Review documentation, SHPO response, and review fee</u>	

This page may be copied to include additional Tribes/NHOs contacted.

Tribal/NHO Involvement Attachments may be required – See instructions for details.

Other Tribes/NHOs Contacted

Tribe/NHO Information

1) FCC Registration Number (FRN):
2) Name:

Contact Name

3) First Name:	4) MI:	5) Last Name:	6) Suffix:
7) Title:			

Contact Information

8) P.O. Box:	And /Or	9) Street Address:							
10) City:		11) State:	12) Zip Code:						
13) Telephone Number:		14) Fax Number:							
15) E-mail Address:									
16) Preferred means of communication: <table border="0"><tr><td><input type="checkbox"/></td><td>E-mail</td></tr><tr><td><input type="checkbox"/></td><td>Letter</td></tr><tr><td><input type="checkbox"/></td><td>Both</td></tr></table>				<input type="checkbox"/>	E-mail	<input type="checkbox"/>	Letter	<input type="checkbox"/>	Both
<input type="checkbox"/>	E-mail								
<input type="checkbox"/>	Letter								
<input type="checkbox"/>	Both								

Dates & Response

17) Date Contacted ____/____/____	18) Date Replied ____/____/____								
<table border="0"><tr><td><input type="checkbox"/></td><td>No Reply</td></tr><tr><td><input type="checkbox"/></td><td>Replied/No Interest</td></tr><tr><td><input type="checkbox"/></td><td>Replied/Have Interest</td></tr><tr><td><input type="checkbox"/></td><td>Replied/Other _____</td></tr></table>		<input type="checkbox"/>	No Reply	<input type="checkbox"/>	Replied/No Interest	<input type="checkbox"/>	Replied/Have Interest	<input type="checkbox"/>	Replied/Other _____
<input type="checkbox"/>	No Reply								
<input type="checkbox"/>	Replied/No Interest								
<input type="checkbox"/>	Replied/Have Interest								
<input type="checkbox"/>	Replied/Other _____								

This page may be copied to include additional Tribes/NHOs.

Historic Properties

Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	() <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o

Historic Property

4) Property Name:
5) SHPO Site Number:

Property Address

6) Street Address:		
7) City:	8) State:	9) Zip Code:
10) County/Borough/Parish:		

Status & Eligibility

11) Is this property listed on the National Register? Source: _____	() <u>Y</u> es () <u>N</u> o
12) Is this property eligible for listing on the National Register? Source: _____	() <u>Y</u> es () <u>N</u> o
13) Is this property a National Historic Landmark?	() <u>Y</u> es () <u>N</u> o

14) Direct Effects (Select One): () No Effect on this Historic Property in APE () No Adverse Effect on this Historic Property in APE () Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): () No Effect on this Historic Property in APE () No Adverse Effect on this Historic Property in APE () Adverse Effect on this Historic Property in APE

This page may be copied to include additional Historic Properties.
Historic Property Attachments required – See instructions for details.

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):

2) Name:

Iredell County Planning, Development, and Transportation Department

Contact Name

3) First Name: Joey

4) MI:

5) Last Name: Raczkowski

6) Suffix:

7) Title: Director

Contact Information

8) P.O. Box: 788

And
/Or

9) Street Address:

10) City: Stateville

11) State: NC

12) Zip Code: 28687

13) Telephone Number:

14) Fax Number:

15) E-mail Address:

16) Preferred means of communication:

(☐) E-mail

(☒) Letter

(☐) Both

Dates & Response

17) Date Contacted 08 / 20 / 13

18) Date Replied ____ / ____ / ____

(☒) No Reply

(☐) Replied/No Interest

(☐) Replied/Have Interest

(☐) Replied/Other _____

Additional Information

19) Information on local government's role or interest (optional):

This page may be copied to include additional local government agencies.

Local Government Attachments required – See instructions for details.

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(<input checked="" type="checkbox"/>) Yes (<input type="checkbox"/>) No
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name: Genealogical Society of Iredell County

Contact Name

4) First Name:	5) MI:	6) Last Name:	7) Suffix:
8) Title: To Whom It May Concern			

Contact Information

9) P.O. Box: 946	And /Or	10) Street Address:	
11) City: Statesville		12) State: NC	13) Zip Code: 28687
14) Telephone Number:		15) Fax Number:	
16) E-mail Address:			
17) Preferred means of communication: (<input type="checkbox"/>) E-mail (<input type="checkbox"/>) Letter (<input type="checkbox"/>) Both			

Dates & Response

18) Date Contacted <u>08 / 20 / 13</u>	19) Date Replied <u> </u> / <u> </u> / <u> </u>
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other _____	

Additional Information

20) Information on other consulting parties' role or interest (optional):

This page may be copied to include additional consulting parties.
Consulting Parties Attachments required – See instructions for details.

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(<input checked="" type="checkbox"/>) Yes (<input type="checkbox"/>) No
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name: Rowan County Planning and Development Department

Contact Name

4) First Name:	5) MI:	6) Last Name:	7) Suffix:
8) Title: To Whom It May Concern			

Contact Information

9) P.O. Box:	And /Or	10) Street Address: 402 N. Main Street, Room 204	
11) City: Salisbury		12) State: NC	13) Zip Code: 28144
14) Telephone Number:		15) Fax Number:	
16) E-mail Address:			
17) Preferred means of communication: (<input type="checkbox"/>) E-mail (<input type="checkbox"/>) Letter (<input type="checkbox"/>) Both			

Dates & Response

18) Date Contacted <u>08 / 20 / 13</u>	19) Date Replied <u> </u> / <u> </u> / <u> </u>
(<input type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other _____	

Additional Information

20) Information on other consulting parties' role or interest (optional):

This page may be copied to include additional consulting parties.
Consulting Parties Attachments required – See instructions for details.

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(<input checked="" type="checkbox"/>) Yes (<input type="checkbox"/>) No
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name: Genealogical Society of Rowan County

Contact Name

4) First Name:	5) MI:	6) Last Name:	7) Suffix:
8) Title: To Whom It May Concern			

Contact Information

9) P.O. Box: 4305	And /Or	10) Street Address:	
11) City: Salisbury		12) State: NC	13) Zip Code: 28145
14) Telephone Number:		15) Fax Number:	
16) E-mail Address:			
17) Preferred means of communication: (<input type="checkbox"/>) E-mail (<input type="checkbox"/>) Letter (<input type="checkbox"/>) Both			

Dates & Response

18) Date Contacted <u>08 / 20 / 13</u>	19) Date Replied <u> </u> / <u> </u> / <u> </u>
(<input type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other _____	

Additional Information

20) Information on other consulting parties' role or interest (optional):

This page may be copied to include additional consulting parties.
Consulting Parties Attachments required – See instructions for details.

Designation of SHPO/THPO

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower.

SHPO/THPO

Name: Ms. Renee Gledhill-Earley

2) You may also designate up to three additional SHPOs/THPOs if the APEs include multiple states. If the APEs include other countries, enter the name of the National Historic Preservation Agency and any state and provincial Historic Preservation Agency.

SHPO/THPO Name: _____

SHPO/THPO Name: _____

SHPO/THPO Name: _____

Designation of SHPO/THPO Attachments may be required – See instructions for details.

Certification

I certify that all representations on this FCC Form 620 Submission Packet and the accompanying attachments are true, correct, and complete.

Party Authorized to Sign

First Name: Dina

MI: M

Last Name: Bazzill

Suffix: _____

Signature: Dina M. Bazzill - MA, RPA

Date: 8, 28, 13

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

Attachment A

Consultant Information

Resume/Curriculum Vitae



Dina M. Bazzill, MA, RPA

Principal Archaeologist/Historian
1375 Union Hill Industrial Court, Suite A, Alpharetta, GA 30004
(770) 667-2040 Ext. 111
dina.bazzill@eca-usa.com

EDUCATION

East Carolina University
M.A., Maritime Studies
Graduated: May 2007
GPA: 3.89/4.0

Greenville, NC

Southwest Missouri State University
B.A., Anthropology, minor in Antiquities
Graduated: May 2004, Magna Cum Laude
GPA: 3.8/4.0

Springfield, MO

PROFESSIONAL CERTIFICATIONS

Secretary of the Interior's 36CFR61 Professional Qualification Standards for Archaeology and History since 2007

Register of Professional Archaeologist since 2007

Section 106 Training Certification from SRI Foundation, 2009

Advanced Section 106 Training Certification from the Advisory Council on Historic Preservation, 2009

NEPA Compliance and Cultural Resources Training Certification from the National Preservation Institute, 2009

Section 4 (f) Compliance for Historic Properties Training Certification from the National Preservation Institute, 2009

Identification and Management of Traditional Cultural Properties Training Certification from the National Preservation Institute, 2009

Tribal Consultation Training Certification from the SRI Foundation, 2010

RELATED EMPLOYMENT

June 2007 – Present
Position: Principal Investigator
Responsibilities:

Environmental Corporation of America

Alpharetta, GA

- Archaeological and historical research.
- Conducting archaeological and historical site assessments for Section 106 compliance.
- Authoring Section 106/archaeological assessment/phase one environmental impact reports for submission to clients, SHPO offices, tribes, consulting parties, and other state agencies.

REPRESENTATIVE EXPERIENCE

June 2007 - Present
Dina M. Bazzill, Principal Archaeologist/Historian

Section 106 Cell Tower Evaluations

USA

Goals: The scope of work for these projects has included archaeological and historic standing structures site assessments for the Section 106 review process in forty different states.

May/June 2011

**Chicago and North Western Railway Bridge Replacement:
Phase I Underwater Archaeological Survey**

Oshkosh, WI

Dina M. Bazzill, Principal Archaeologist/Historian

Goals: The scope of work for this project included a Phase I side-scan sonar survey for the replacement of the Chicago and North Western Railway Line over the Fox River in Oshkosh, Winnebago County, Wisconsin. The side-scan sonar survey was performed by Jerry Guyer of Pirate's Cove Diving Inc. Dina M. Bazzill performed the necessary research, analyzed the side-scan sonar data, and prepared a report in conformance with Wisconsin Historical Society Guidelines.

- April/May 2010 **Snowbird Youth Center Phase I** Robbinsville, NC
Dina M. Bazzill, Field Director and John P. McCarthy, Principal Investigator
Goals: The scope of work for this project included a survey for a proposed Eastern Band of Cherokee Indians Youth Center located on Forest Service land in Robbinsville, North Carolina. High probability landforms were tested as per Forest Service archaeological testing guidelines. Shovel tests were excavated at 65-foot intervals, where appropriate. Key staff members included Dina M. Bazzill, Field Director and John P. McCarthy, Principal Director. Dina M. Bazzill authored the report, with the assistance of John P. McCarthy.
- April/May 2010 **Cabe Jail Phase I - EBCI Reservation** Cherokee, NC
Dina M. Bazzill, Project Archaeologist and John P. McCarthy, Principal Investigator
Goals: The scope of work for this project included a survey for a proposed jail located on the Eastern Band of Cherokee Indians reservation in Cherokee, North Carolina. The entire proposed property was systematically surveyed utilizing guidelines provided by the EBCI THPO office. Shovel tests were excavated at 65-foot intervals, where appropriate. Key staff members included Dina M. Bazzill, Project Archaeologist and John P. McCarthy, Principal Director. John P. McCarthy authored the report, with the assistance of Dina M. Bazzill.
- October /November 2009 **Old #4 Sewer Line Replacement - EBCI Indian Reservation** Cherokee, NC
Dina M. Bazzill, Field Director and John P. McCarthy, Principal Investigator
Goals: The scope of work for this project included a systematic survey for a proposed sewer line replacement located on the Eastern Band of Cherokee Indian Reservation in Cherokee, North Carolina. A pedestrian survey was conducted, and shovel tests were conducted as per EBCI THPO office guidelines. This entailed excavating shovel tests at 65-foot intervals, where appropriate. Crew members included Dina M. Bazzill, Field Director, who supervised Mary E. Seagrave, field technician, Dave McGlothlin, field technician, and Landon Abernethy, field technician. John P. McCarthy oversaw the fieldwork and the report preparations, with assistance from Dina M. Bazzill.
- July 2009 **Phase II Archaeological Site Delineation** Lewis Creek, IN
Dina M. Bazzill, Principal Investigator
Goals: The scope of work for this project included delineating a circa 1840 pioneer homestead located in Lewis Creek, Indiana in order to determine National Register of Historic Places eligibility. Dina M. Bazzill served as Principal Investigator and supervised Mary E. Seagrave, Project Archaeologist. Artifacts recovered from the field work were analyzed and photographed by Dina M. Bazzill. A Section 106 Review was prepared by Dina M. Bazzill and submitted to the Indiana State Historic Preservation Office for their review and comment.
- April/May 2008 **City of Norcross – Proposed Greenspace Park** Norcross, GA
Dina M. Bazzill, Field Director and Principal Investigator
Goals: The scope of work for this project includes a Phase I survey of a seven acre tract of land in the City of Norcross, Georgia. ECA evaluated archaeological and historic resources present within the survey area and advise the City of Norcross on how best to preserve these resources and utilize them for educational purposes. In addition, a comprehensive user friendly report was produced.
- November 2007 **Deep Testing for Archaeological Deposits** Nashville, TN
Artis West, Principal Investigator
Goals: The scope of work for this project included placing 10-foot deep two trenches with the proposed APE for direct effects for a proposed cell tower located adjacent to the Harpeth River in Nashville, Tennessee. Backfill soil was selectively sampled and negative findings were recorded. A report summarizing the findings was prepared and accepted by the Tennessee Historical Commission, Division of Archaeology.

Seth Goad

Project Manager

1340 Patton Avenue, Suite K, Asheville, NC 28806

(828) 505-0755

seth.goad@eca-usa.com

EDUCATION

Western Carolina University
Bachelors of Science, Geology, 2009

Cullowhee, NC

PROFESSIONAL EXPERIENCE

February 2013 – Present **Environmental Corporation of America**

Asheville, NC

Position: Project Manager/Project Scientist

Responsibilities:

Performing FCC/NEPA Assessments, Phase I Archaeological Surveys, Historic Structure Surveys, compiling Section 106 Reviews, Phase I and II Environmental Site Assessments, Threatened and Endangered Species Impact Reports, and Geotechnical Investigations. Other project types and duties include wetland/flood plain evaluations, field data and sample collection, data reduction, and proposal and report preparation.

May 2012 – February 2013 **Engineering Consulting Services (ECS)**

Asheville, NC

Position: Field Technician/Environmental Technician

Responsibilities:

As a field technician work is routinely performed on active construction sites or in laboratory settings. Tasks include the observation, testing, sampling and inspection of various types of soils, concrete, grout, masonry, and asphalt for their structural integrity. Data interpretation and data calculations are a day to day function when working at onsite or within the laboratory. As an Environmental Technician, Phase I Environmental Site Assessments were conducted, and corresponding reports were written.

February 2010 – October 2011 ALC Environmental

New York, NY

Position: Environmental Project Manager/ EPA Certified Lead-Based Paint Risk Assessor

Responsibilities:

Performing Phase I Environmental Site Assessments throughout New York City and New York State, Residential indoor air quality inspections, and Lead-Based Paint Risk Assessments for residential and commercial properties. Other duties include report preparation and field data and sample collection

REPRESENTATIVE EXPERIENCE

Phase I Environmental Site Assessments

- Project Manager and/or Project Scientist

Indoor Air Quality Inspections

- Determining mold levels within residential settings in New York City.

Lead-Based Paint Risk Assessment

- Determining lead levels within paint for residential and commercial properties in New York City/State.



Matthew Fields

Project Scientist/Manager
1340 Patton Avenue, Suite K, Asheville, NC 28806
(828) 505-0755
matthew.fields@eca-usa.com

EDUCATION

University of North Carolina at Asheville

Bachelor of Science, Environmental Management & Policy, 2011
Bachelor of Arts, Environmental Economics, 2011

Asheville, NC

PROFESSIONAL EXPERIENCE

July 2013 – Present

Environmental Corporation of America

Asheville, NC

Position: Project Scientist/Manager

Responsibilities:

- FCC/NEPA Assessments
- Phase 1 Archaeological Surveys
- Historic Structure Surveys
- Section 106 Reviews
- Phase 1 Environmental Site Assessments
- Threatened and Endangered Species Impact Reports
- Geotechnical Investigations
- Wetland/Flood Plain Evaluations
- Field Data and Sample Collection
- Proposal and Report Preparation

May 2010 – May 2013

Environmental Testing Solutions

Asheville, NC

Position: Laboratory Technician

Responsibilities:

- Tested water samples for biochemical oxygen demand, total suspended solids, total residual chlorine, fecal coliform, turbidity, conductivity, pH, dissolved oxygen, total dissolved solids, settleable solids, percent solids, percent moisture, alkalinity and hardness
- Maintained aquatic organisms
- Made stock standards and chemical reagents

Attachment B

Site Information

1: Photographs

The following photographs were taken using a digital camera from a height of 6'0".

- a:** Directional photographs taken from the Proposed Tower Site and of the associated access road.
- b:** Photographs of all listed or eligible properties within the Areas of Potential Effects, if any.
- c:** Photographs from listed or eligible properties within the Area of Potential Effects looking toward the proposed tower site, if any.
- d:** Aerial photograph showing APE for visual effects.



A: Northerly View From Near the Center of the Proposed Lease Area



B: Easterly View From Near the Center of the Proposed Lease Area

Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Attachment B-1a: Photographs

Page 3 of 12



ECA Proj. #: P-984



C: Southerly View From Near the Center of the Proposed Lease Area



D: Westerly View From Near the Center of the Proposed Lease Area

Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Attachment B-1a: Photographs

Page 4 of 12



ECA Proj. #: P-984



E: Northeasterly View of the Proposed Lease Area



F: Westerly View of the Proposed Lease Area

Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Attachment B-1a: Photographs

Page 5 of 12



ECA Proj. #: P-984



G: Southeasterly View Along the Proposed Access/Utility Easement



H: Southerly View Along the Proposed Access/Utility Easement

Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Attachment B-1a: Photographs

Page 6 of 12



ECA Proj. #: P-984



I: Overview of Shovel Test Pit #1 (ST1)



J: Soil Profile of ST1

Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)

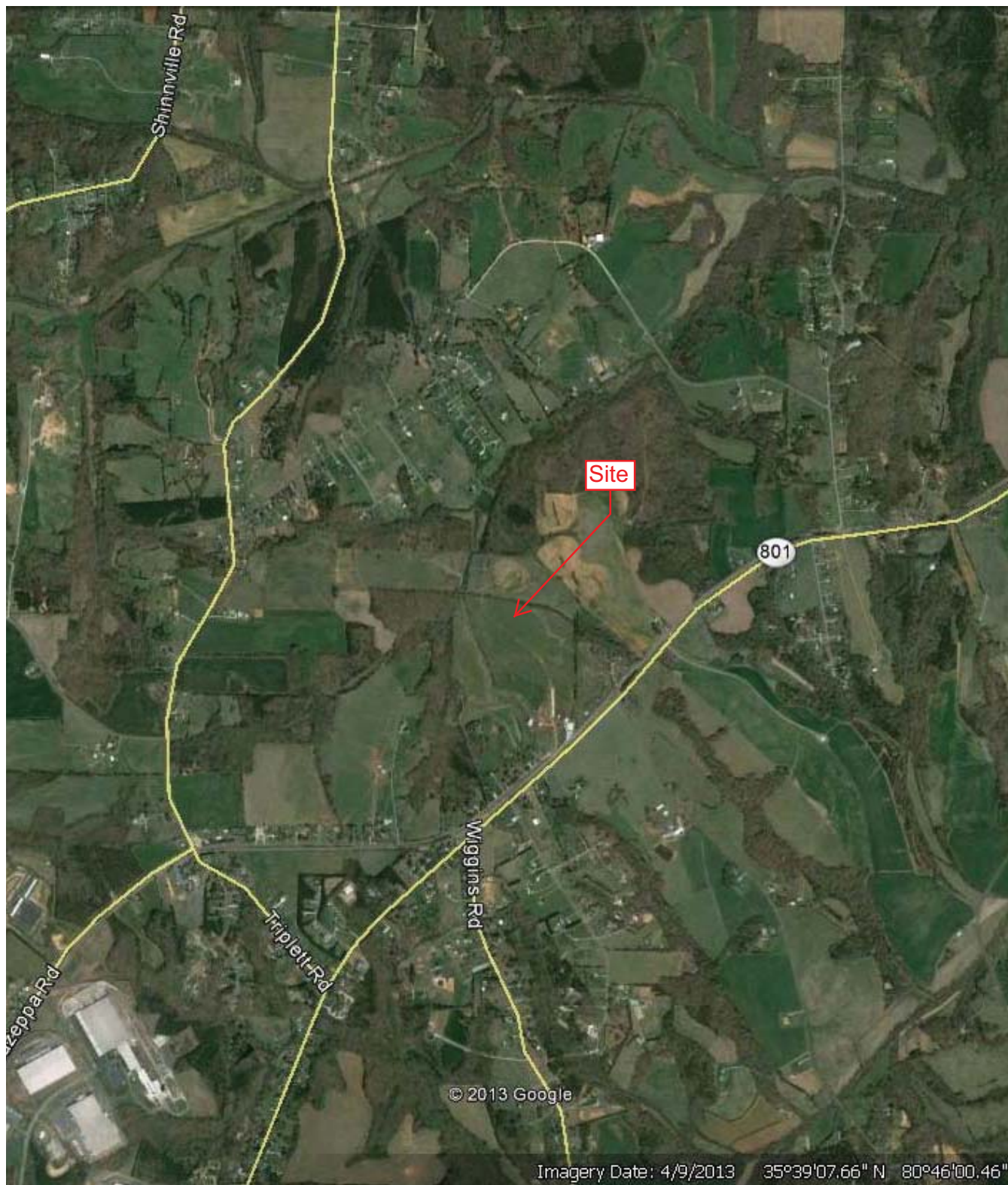
1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

Attachment B-1a: Photographs

Page 7 of 12



ECA Proj. #: P-984



Source: Google Earth Aerial Photograph (2013).



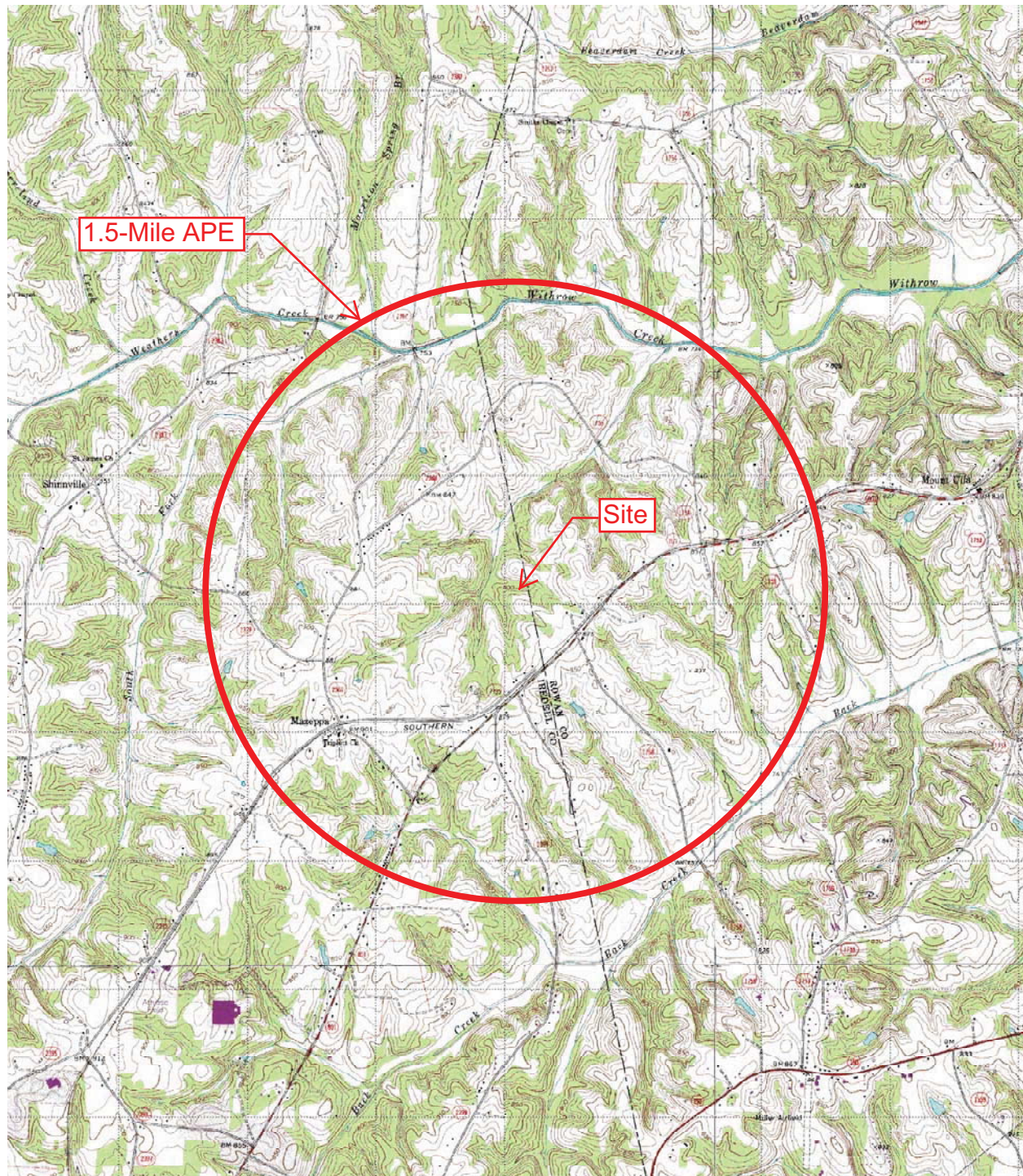
Davidson Investments LLC
 Edwards (WWLV 94.1 FM Radio Tower)
 1095 Mazeppa Road
 Mooresville, Iredell County, North Carolina
 Attachment B-1d: Aerial Photograph
 Page 8 of 12



ECA Proj. #: P-984

2: Maps

- a:** 7.5-Minute topographic map showing the Area of Visual Effects and the location of any identified historic properties
- b:** 7.5-Minute topographic map showing the Area of Direct Effects including any new access roads or other easements
- c:** Site Vicinity Plan showing the location of the proposed tower site, any new access roads, easements, additional structures, utility lines, fences, and excavations.



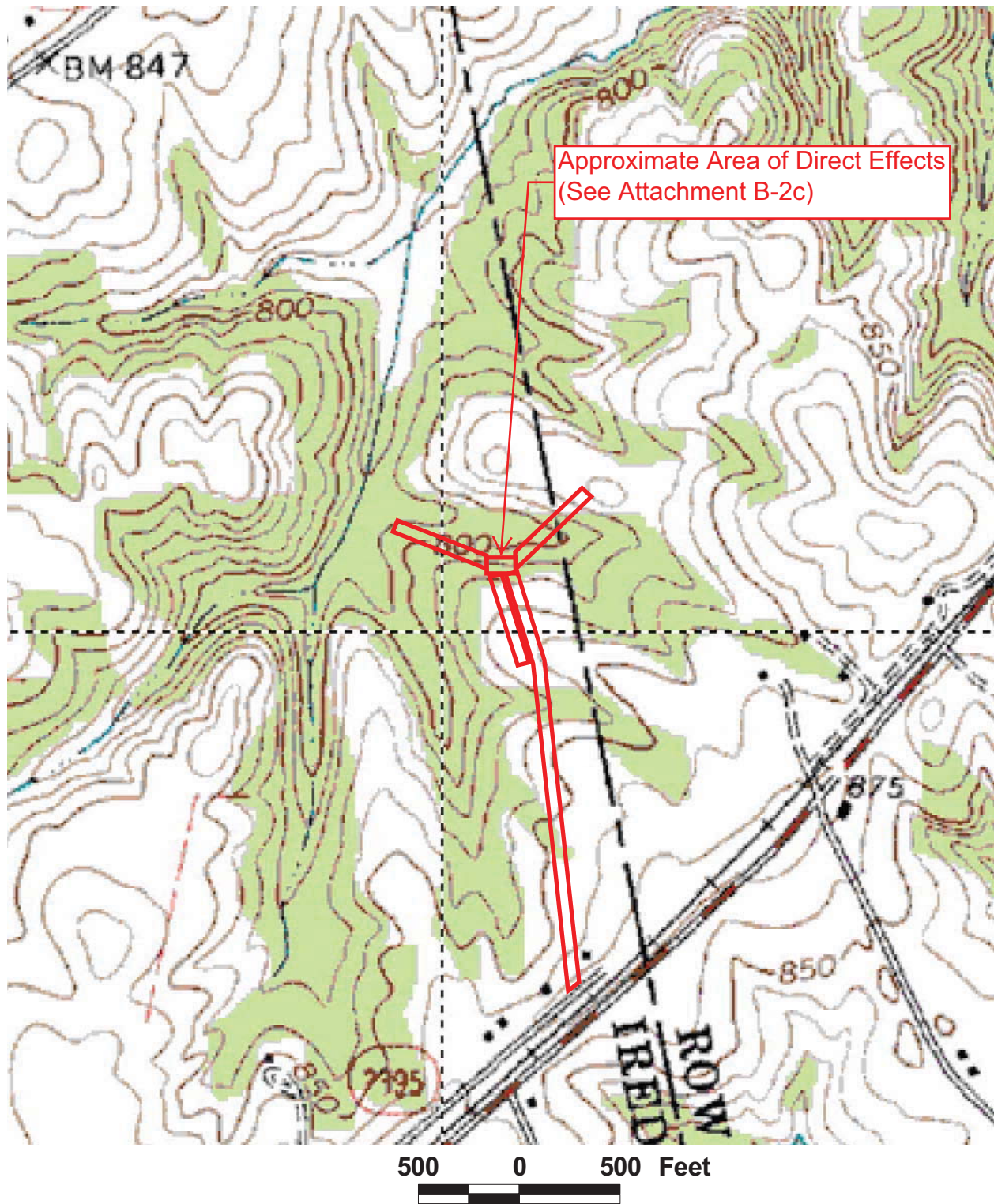
Source: USGS Topographic Quadrangle Map, 7.5 Minute Series, Shepherds, NC (1969) and Cleveland, NC (1970, photorevised 1988).



Davidson Investments LLC
Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooresville, Iredell County, North Carolina
Attachment B-2a: Area of Visual Effect
Page 10 of 12



ECA Proj. #: P-984



Source: USGS Topographic Quadrangle Map, 7.5 Minute Series, Shepherds, NC (1969).



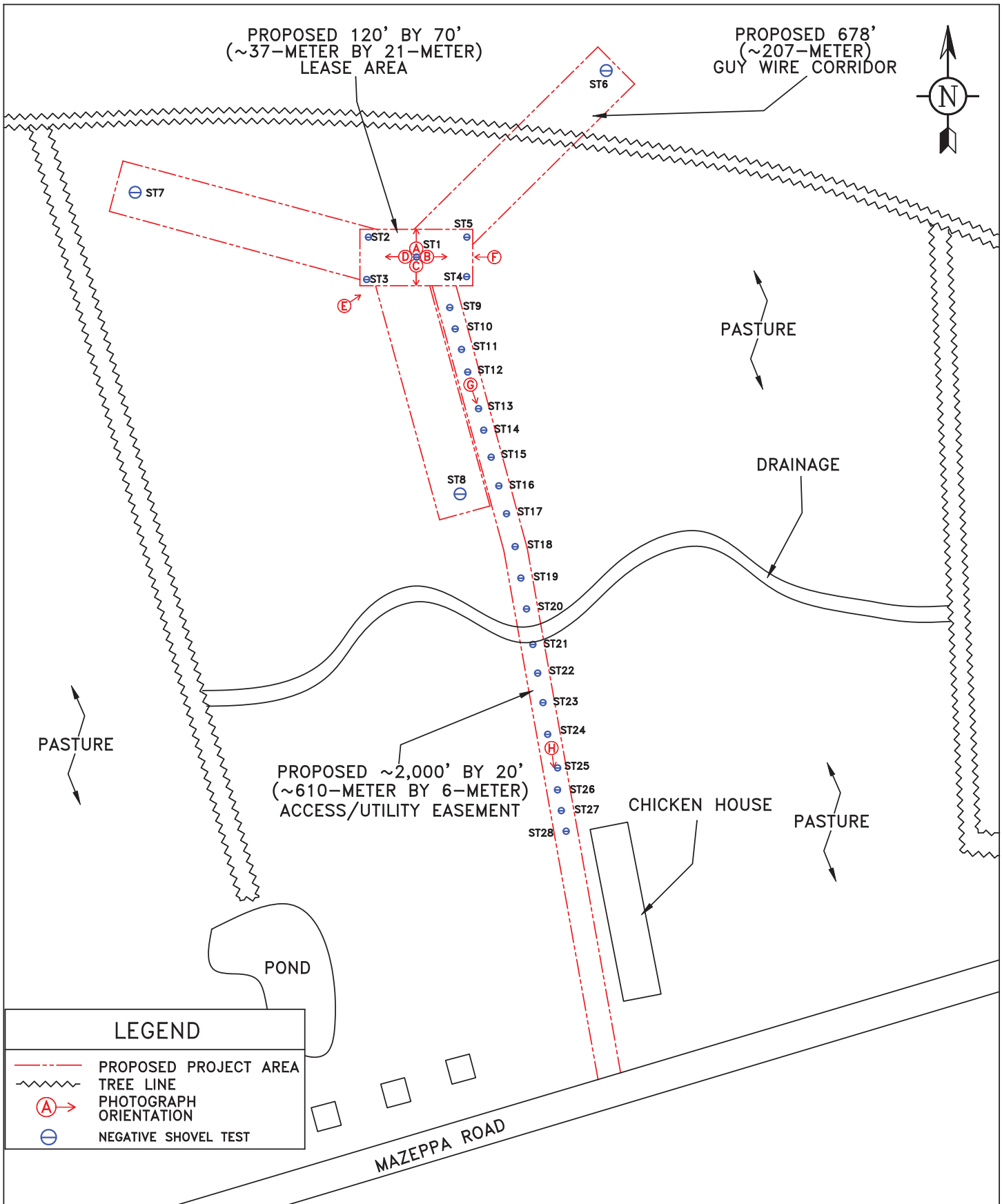
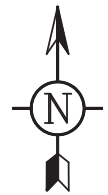
Davidson Investments LLC
 Edwards (WWLV 94.1 FM Radio Tower)
 1095 Mazeppa Road
 Mooresville, Iredell County, North Carolina
 Attachment B-2b: Area of Direct Effect
 Page 11 of 12



ECA Proj. #: P-984

PROPOSED 120' BY 70'
(~37-METER BY 21-METER)
LEASE AREA

PROPOSED 678'
(~207-METER)
GUY WIRE CORRIDOR



LEGEND

- PROPOSED PROJECT AREA
- TREE LINE
- PHOTOGRAPH ORIENTATION
- NEGATIVE SHOVEL TEST

Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)

1095 Mazeppa Road

Mooreville, Iredell County, North Carolina

Attachment B-2c: Site Vicinity Plan

Page 12 of 12

SOURCE: ECA Site Visit, Survey, and Aerial
Photography

DRAWN BY: SDG

DATE: 8/26/13

NOT TO SCALE

FILE NAME: f:\%P-984.dwg



ECA Project # P-984

Attachment C

Determination of Effect

1: *Areas of Potential Effects*

a: Direct Effects

The APE for direct effects is limited to the site of the proposed tower and surrounding easements, as described in the Nationwide Programmatic Agreement.¹ For this particular undertaking the area of disturbance would include the proposed approximately 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area, the 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement, three approximately 678-foot long (~207-meter) guy wire corridors, and all of the immediately adjacent areas. The general APE for direct effects is shown in Attachment B-2b and Attachment B-2c.

b: Visual Effects

The APE for visual effects is the geographic area or areas within which the facility may directly or indirectly cause alterations in the character or use of Historic Properties.² Unless otherwise noted, the area of potential effect for visual effect is as described in the Nationwide Programmatic Agreement:

- If the proposed tower is 200 feet or less in overall height, the APE is ½ mile in radius from the proposed tower.
- If the proposed tower is more than 200 feet in height and no more than 400 feet in height, the APE is ¾-mile in radius from the proposed tower.
- If the proposed tower is more than 400 feet in height, the APE is 1 ½ miles in radius from the proposed tower.³

The 1½-mile APE for visual effects is shown in Attachment B-2a: Area of Visual Effect.

2: Mitigation of Effect

a: Copies of correspondence and summaries of oral communications with SHPO/THPO and any consulting parties including descriptions of alternatives that have been considered in order to avoid, minimize, or mitigate any adverse effects

Not Applicable

¹ Section VI.C.2 of the Nationwide Programmatic Agreement (WT Docket No. 03-128; FCC-222).

² Section II.3 of the Nationwide Programmatic Agreement (WT Docket No. 03-128; FCC-222).

³ Section VI.C.4.a-c of the Nationwide Programmatic Agreement (WT Docket No. 03-128; FCC-222).

Attachment D

Tribal and NHO Involvement

ECA made notification through the FCC Tower Construction Notification System (TCNS) in order to identify Indian Tribes and NHOs that may attach religious and cultural significance to Historic Properties that may be affected by the tower project within the APE for direct or visual effects.

ECA identified five federally recognized tribes that may be interested in participating in the Section 106 Review process in the county where the undertaking would occur. Any Tribe listed on the TCNS that does not respond within 14 and 30 days of initial notification will receive a follow up letter. Any Tribes requesting to be involved in the Section 106 Review consultation process will be provided a copy of this submission packet and will be provided an opportunity to comment on the proposed undertaking.

Copies of all relevant documents received to date, including correspondence, are provided in the following pages.

TRIBAL INVOLVEMENT
TCNS #97346 - INITIAL CONTACT July 19, 2013

INDIAN TRIBE OR NATION	SECOND TRIBAL CONTACT DATE	RESPONSE RECEIVED FROM TRIBE	REFER TO FCC	TRIBAL CLEARANCE
TUSCARORA NATION	NA	7/19/13 - via TCNS requested 30-Day Response Limit Agreement	NA	8/18/13
CHEROKEE NATION		Standing request for Archaeological Assessment then 30 day response limit agreement	NA	
EASTERN SHAWNEE TRIBE OF OKLAHOMA		7/19/13 and 7/29/13 - via TCNS requested Archaeology Assessment, SHPO response, and review fee	NA	
SHAWNEE TRIBE		7/19/13 and 7/23/13 - via TCNS requested Archaeological Assessment, SHPO response, and review fee	NA	
CATAWBA INDIAN NATION CULTURAL PRESERVATION PROJECT		7/19/13 - via TCNS requested Limited Section 106 Review documentation, SHPO response, and review fee	NA	

* Federal Communications Commission Declaratory Ruling – October 6, 2005

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

From: towernotifyinfo@fcc.gov [<mailto:towernotifyinfo@fcc.gov>]
Sent: Tuesday, July 16, 2013 8:50 AM
To: tribal.notify@eca-usa.com
Subject: Proposed Tower Structure Info - Email ID #3385391

Dear Dina M Bazzill,

Thank you for submitting a notification regarding your proposed construction via the Tower Construction Notification System. Note that the system has assigned a unique Notification ID number for this proposed construction. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the construction you have proposed:

Notification Received: 07/16/2013

Notification ID: 97346

Tower Owner Individual or Entity Name: Environmental Corporation of America

Consultant Name: Dina M Bazzill

Street Address: 1375 Union Hill Industrial Court
Suite A

City: Alpharetta

State: GEORGIA

Zip Code: 30004

Phone: 770-667-2040

Email: tribal.notify@eca-usa.com

Structure Type: GTOWER - Guyed Structure Used for Communication Purposes

Latitude: 35 deg 39 min 5 sec N

Longitude: 80 deg 46 min 1 sec W

Location Description: 1095 Mazeppa Road

City: Mooresville

State: NORTH CAROLINA

County: IREDELL

Ground Elevation: 248.1 meters

Support Structure: 344.4 meters above ground level

Overall Structure: 359.7 meters above ground level

Overall Height AMSL: 607.8 meters above mean sea level

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

From: towernotifyinfo@fcc.gov [<mailto:towernotifyinfo@fcc.gov>]
Sent: Friday, July 19, 2013 3:01 AM
To: tribal.notify@eca-usa.com
Cc: kim.pristello@fcc.gov; diane.dupert@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER
CONSTRUCTION NOTIFICATION INFORMATION - Email ID #3387268

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Chief Leo R Henry - Tuscarora Nation - Via: Lewiston, NY - regular mail
Details: If the Applicant/tower builder receives no response from the Tuscarora Nation within 30 days after notification through TCNS, the Tuscarora Nation has no interest in participating in pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify the Tuscarora Nation in the event archaeological properties or human remains are discovered during construction.

2. Policy Analyst Richard L Allen - Cherokee Nation - Tahlequah, OK - electronic mail

Details: The TCNS Details do not provide me enough information to conduct a proper assessment of the projects on behalf of the Cherokee Nation. Therefore, I request that I be sent a brief summary of the Phase I findings [please try to limit the summary to between 1--10 pages], a topo of the area, and relevant photos. Please send these by email to rallen@cherokee.org. Please treat this request for additional material as a routine supplement to the TCNS Details Notification for each of your projects that fall within our Tribe's areas of geographic interest. Consequently, if you do not receive a response from me within 30 days from the date on which you e-mailed the supplemental items to me, you may move forward with the 20-Day Letter procedures pursuant to the FCC's guidelines. Thank you. -- Dr. Richard L. Allen

3. THPO Robin Dushane - Eastern Shawnee Tribe of Oklahoma - Seneca, MO - electronic mail

Details: Greetings from the Eastern Shawnee Tribe of Oklahoma.

The Eastern Shawnee Tribe of Oklahoma is interested in consulting on this tower or broadband project, just as we are interested in consulting on all federal undertakings in our homelands and otherlands of interest.

Consultation regarding our heritage resources is one of the activities required by the National Historic Preservation Act (NHPA) for undertakings licensed or permitted by federal agencies such as the FCC.

We have recently developed new NHPA consultation procedures for cell tower projects (dated 3-1-2013). These procedures may be obtained by e-mailing or calling the cell tower program archaeologist, Rebecca Hawkins (algonquin@neok.com; 918-541-0782). All further electronic correspondence regarding this tower should also be directed to Ms. Hawkins at that e-mail address. This is the e-mail address that we will use for all of our TCNS communications and final responses.

Thank you,

Robin Dushane, THPO
Eastern Shawnee Tribe of Oklahoma

4. THPO Kim Jumper - Shawnee Tribe - Miami, OK - regular mail

Details: THIS IS YOUR OFFICIAL NOTICE THAT THE SHAWNEE TRIBE IS INTERESTED IN CONSULTING ON ALL PROJECTS BUILT IN OUR AREAS OF GEOGRAPHIC INTEREST.

ATTENTION, NEW INFORMATION: Our procedures were updated on 14 January 2008. Please call Kim Jumper, THPO, at 918-542-2441, so that she can send you a copy.

If your tower is a co-location, please fax us this information to let us know. We cannot always tell from the TCNS web site that a tower is a co-location. We require a written response from you to let us know that it is a co-location. If a co-location project includes some new ground disturbance (such as from an expanded compound or access road, or

construction of an ancillary structure), the Shawnee Tribe treats such a project the same as any other non co-location project.

Our correct mailing/physical address is: 29 South Highway 69A. Our correct phone number is (918-542-2441) and our historic preservation fax line is (918-542-9915). THPO Kim Jumper manages all cell tower consultation.

As of 26 June 2006, all of the faxed responses of our final comments on a tower site will contain an original Shawnee Tribe signature. Each final comment fax is signed individually. Copies may be compared, for authentication, against the original in our files. If a final comment fax does not contain a signature, it is not valid. ALL FINAL COMMENTS FROM THE SHAWNEE TRIBE ARE WRITTEN; FINAL COMMENTS ARE NEVER PROVIDED VERBALLY. IF THE SHAWNEE TRIBE IS CREDITED WITH HAVING GIVEN A VERBAL RESPONSE, THAT RESPONSE IS NOT VALID.

If you receive notification through the TCNS listing the Shawnee Tribe, that is an indication that the Shawnee Tribe is interested in consulting on the tower for which that notification was received. Please consider that our official indication of interest to you. The Shawnee Tribe considers the Tower Construction Notification System's weekly e-mail to be the first notification that we receive that a tower will be constructed in an area of our concern. We do not view the TCNS notification as completion of 106 consultation obligations.

The Shawnee Tribe has developed streamlined consultation procedures for cell tower developers and their subcontractors. If you do not have a copy of the procedures - most recently updated on 14 January 2008 - please contact us, as you must follow these procedures to consult with us on cell tower projects. Call us at 918-542-2441 or fax us at 918-542-9915. It is the tower builder's responsibility to make sure that you have our most recent consultation procedures.

PLEASE DO NOT SEND US INFORMATION, QUERIES, OR COMMENTS ELECTRONICALLY. SINCE 1 DECEMBER 2005, WE HAVE NOT HANDLED ANY CELL TOWER CONSULTATION, INQUIRIES, OR CORRESPONDENCE VIA E-MAIL.

5. THPO and Executive Director Dr. Wenonah G Haire - Catawba Indian Nation Cultural Preservation Project - Rock Hill, SC - electronic mail and regular mail

Details: The Catawba Indian Nation Tribal Historic Preservation Office requests that you send us by regular mail the following information needed to complete our research for the your proposed project:

Project Name _____

Project Number _____

____ 1. The name, complete address, phone number, fax number and e-mail address of the project manager.

____ 2. The project location plotted on a topo map.

____ 3. The project name, address and location; street or highway, city, county, state.

____ 4. A brief description of the proposed project. Please include the

size of the proposed project site and the size of the area where ground-disturbing activities will be taking place and the type of disturbance anticipated.

____ 5. A brief description of current and former land use. We are primarily interested in ground disturbance and do not need detailed information or photographs of historic structures in the project area.

____ 6. A list of all recorded archaeological sites within one half (1/2) mile of the project area.

____ 7. A list of all eligible and potentially eligible National Register of Historic Places sites within one half (1/2) mile of the proposed project area.

____ 8. If there has been an archaeological survey done in the area, a copy of that report.

____ 9. It is not necessary to send original color photos if you can provide high-resolution color copies.

____ 10. A letter of concurrence from the appropriate State Historic Preservation Office.

If you use the FCC Form 620, please do not send Attachments 1 through 6. They are not necessary for our determination. We do not have an interest in projects that require no ground disturbance.

Please note: Our research/processing fee is currently \$250. This fee will be changing to \$400 effective March 1, 2012. Please send these requested materials in hard copy format. Send to:

CIN-THPO
1536 Tom Steven Road
Rock Hill, S.C. 29730

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. SHPO Katherine Slick - Historic Preservation Div. - Office of Cultural Affairs - Santa Fe, NM - electronic mail and regular mail

7. Environmental Review Coordinator Renee GledhillEarley - NC State Historic Preservation Office - Raleigh, NC - electronic mail

8. Deputy SHPO David Brook - Historic Preservation Office - Raleigh, NC - electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 07/16/2013

Notification ID: 97346

Tower Owner Individual or Entity Name: Environmental Corporation of America

Consultant Name: Dina M Bazzill

Street Address: 1375 Union Hill Industrial Court
Suite A

City: Alpharetta

State: GEORGIA

Zip Code: 30004

Phone: 770-667-2040

Email: tribal.notify@eca-usa.com

Structure Type: GTOWER - Guyed Structure Used for Communication Purposes

Latitude: 35 deg 39 min 5.0 sec N

Longitude: 80 deg 46 min 1.0 sec W

Location Description: 1095 Mazeppa Road

City: Mooresville

State: NORTH CAROLINA

County: IREDELL

Ground Elevation: 248.1 meters
Support Structure: 344.4 meters above ground level
Overall Structure: 359.7 meters above ground level
Overall Height AMSL: 607.8 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Attachment E

Historic Properties

Method of Identification:

The following sources and records were reviewed to identify Historic Properties within the Area of Potential Effect (APE) for visual and direct effects:

- i. Properties listed in the National Register;
- ii. Properties formally determined eligible for listing by the Keeper of the National Register;
- iii. Properties that the SHPO/THPO certifies are in the process of being nominated to the Nation Register;
- iv. Properties previously determined eligible as part of a consensus determination of eligibility between the SHPO/THPO and a Federal Agency or local government representing the Department of Housing and Urban Development (HUD); and
- v. Properties listed in the SHPO/THPO Inventory that the SHPO/THPO has previously evaluated and found to meet the National Register Criteria, and that are identified accordingly in the SHPO/THPO Inventory.¹

¹ Section VI.D.1.a.i-v of the Nationwide Programmatic Agreement (WT Docket No. 03-128; FCC-222)

1: Historic Properties Identified in the APE for Direct Effects

a: Historic Properties identified within the APE for direct effects

If any Historic Properties were identified, see *Historic Properties* pages within the FCC Form 620, Page 7.

b: Historic Properties within the APE, not listed in “a”, that ECA Considers to be Eligible for Listing in the National Register as a result of ECA’s research.

ECA has identified no Historic Properties within the area for direct effects.

c: Description of techniques and methodology used to identify Historic Properties within the APE for direct effects.

See *Archaeological Assessment*, Attachment E-1c.

2: Historic Properties Identified in the APE for Visual Effects

- a: Historic Properties Identified in the APE for visual effects that are listed in the National Register, have been formally determined eligible by the Keeper of the National Register, or have been evaluated and found to meet NR criteria for listing by the SHPO/THPO and are identified as such in the SHPO/THPO inventory.**

If any historic resources were identified, see *Historic Properties* pages within the FCC Form 620, Page 7 **or** if more than ten identified historic resources see *Cultural Resource Report*, Attachment E-2a.

- b: Historic Properties, not listed in part “a,” that are in the APE for visual effects that were identified through the comments of Indian Tribes, NHOs, local government, or members of the public.**

See *Historic Properties* pages within the FCC Form 620, Page 7.

- c: Properties listed in part “a,” which ECA considers no longer eligible for inclusion in the National Register**

Not applicable.

Attachment E-1c

Archaeological Assessment

CONFIDENTIAL NOTICE: Attachment E-1c and Attachment H may contain information on historic and/or prehistoric archaeological cultural resources. This information is to be regarded as strictly confidential and is not for public dissemination or distribution and is not to be published in the public domain or provided to any unauthorized parties.

Archaeological Assessment

TCNS ID # 97346

Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)

Within An Approximate 120-foot long by 70-foot wide (~37-meter by 21-meter) Lease Area
Davidson Investments LLC – Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooresville, Iredell County, North Carolina

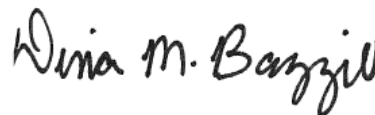
Submitted to

North Carolina Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

By



Seth Goad
Project Manager



Dina M. Bazzill, MA, RPA
Principal Investigator

August 28, 2013

ENVIRONMENTAL CORPORATION OF AMERICA
1375 UNION HILL INDUSTRIAL COURT, SUITE A
ALPHARETTA, GEORGIA 30004

ECA Project #: P-984

Executive Summary

Environmental Corporation of America (ECA) has completed an Archaeological Assessment for the federal undertaking at the subject site. The subject site includes a proposed 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area, three approximately 678 foot long (~207-meter) guy wire corridors, and a proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement. The facility would include a 1,180-foot overall height guyed communications structure and associated ground-level support equipment. The subject site is located at 1095 Mazeppa Road near Mooresville, Iredell County, North Carolina. Additionally, the northeastern guy and part of the access, but a section that will not require improvement crosses over into Rowan County, North Carolina.

This archaeological assessment was conducted in order to ascertain whether the proposed undertaking, on the project site, might directly or indirectly affect cultural resources, if any such resources exist. Through a review of the available cultural records and databases, we identified no previously recorded archaeological sites and no previously recorded archaeological surveys located within our standard 1 ½-mile background research radius of the proposed project. During the course of the Phase I intensive field survey portion of this archaeological assessment, no archaeological sites were discovered and no archaeological cultural resources were encountered.

We conclude that the undertaking would not affect any historic or prehistoric archaeological resources that are listed in or eligible for listing in the NRHP. Therefore, for archaeological cultural resources, we recommend a finding of No Effect for the proposed undertaking.

*An Archaeological Assessment of a Proposed
120-foot long by 70-foot wide (~37-meter by 21-meter) Communications Facility
Mooresville, Iredell County, North Carolina*

Background

ECA was contracted by Davidson Investments LLC. to perform an archaeological assessment as part of the Section 106 Review process for the proposed communications facility and access/utility easement. The facility would be located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. The purpose of our work was to determine whether any archaeological sites might exist within the project impact area.

The proposed lease area is located within a grassed agricultural pasture northwest from Mazeppa Road. The lease area would be accessed via a proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement which would lead in a general northwesterly direction from Mazeppa Road. The proposed lease area would measure 120-foot long by 70-foot wide (~37-meter by 21-meter) with the center located at approximately N 35° 39' 5.0" W 80° 46' 1.0" (UTM 17 521097E 3945309N). Photographs of the proposed project area are provided in Attachment B-1. Descriptions of the photographs are provided underneath each photograph.

The project area is located within the limits of the Shepherds, NC United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle Map², as shown on Attachment B-2a. Attachment B-2c is a site vicinity plan that shows the site configuration. Attachment B-1d is a recent aerial photograph³ of the site area. The facility would be located on a tract occupied by a grassed agricultural pasture, situated at an approximate elevation of 814 feet (~248 meters) Above Mean Sea Level (AMSL). The nearest drainage feature is an unnamed tributary of Withrow Creek located approximately 760 feet (~232-meter) northwest of the proposed project area.

² Geological Survey, 7.5-minute Topographic Quadrangle Map for *Shepherds, NC (1969)*.

³ 2013 Google Earth Aerial Photograph

Geologically, the Property is located within the Piedmont Physiographic Province, which is characterized by igneous and metamorphic rocks such as gneisses, schists, and granites. In the Piedmont, groundwater is generally present in the overlying mantle of residual soil or in joints and cracks present in the underlying rock. According to the USDA Iredell County and Rowan County Web Soil Surveys, soils found at the Property are Cecil sandy loam, Chewacla loam, and Pacolet sandy loam. The Cecil series consists of very deep, well drained, moderately permeable soils found on ridges and side slopes of the Piedmont Uplands. The Chewacla series consists of very deep, somewhat poorly drained, moderately permeable soils. The Pacolet series consists of very deep, well drained, moderately permeable soils that formed in residuum weathered mostly from iron rich igneous and metamorphic rocks.

The Area of Potential Effect (APE) is defined as “the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties, if any such properties exist”⁴. For purposes of this work, the APE for direct effects is the actual physical impact area. The impact area includes the 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area, the proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement, the three approximately 678-foot long (~207-meter) guy wire corridors, and all of the immediately adjacent areas.

Literature and Documents Search

National Register of Historic Places

The National Register of Historic Places (NRHP)⁵ is the Nation’s official list of cultural resources worthy of preservation. Authorized under the National Historic Preservation Act of 1966, the National Register is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect historic and archaeological resources. Properties listed in the

⁴ 47 CFR Part 1 Nationwide Programmatic Agreement for Review Under the National Historic Preservation Act: Final Rule, January 4, 2005; Federal Register Vol.70, No. 2, Page 582.

⁵ National Register Information System, retrieved from <http://www.nps.gov/nr/>.

National Register include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archaeology, engineering, and culture. The National Park Service, which is part of the U.S. Department of the Interior, administers the National Register. ECA conducted a review of the National Register of Historic Places to determine whether any archaeological sites were located within a 1 ½-mile radius of the project site. The search revealed no National Register Historic properties within a 1 ½-mile radius of the project site.

North Carolina History Resource Survey Site File

The North Carolina Historic Resource Survey files are a compilation of archaeological and historic resource surveys throughout the state. The individual surveys cover either a countywide or a community-wide area. The North Carolina Historic Preservation Office reviewed these files to discover whether historic or archaeological resources were within the general area of the project site. NC SHPO Office of State Archaeology identified no previously recorded archaeological sites or surveys in the APE for direct effects or the immediate area of the subject site.

Field Methods

The Phase I Intensive Field Survey implemented standard survey techniques were performed by Seth Goad and Matthew Fields of ECA on August 14, 2013. A pedestrian survey was conducted at the project site by visual inspection of exposed ground surfaces throughout the proposed 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area, the three approximately 678 foot (~207 meter) guy wire corridors, and along the length of the proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement.

The APE for Direct Effects for this project includes the proposed approximate 120-foot long by 70-foot wide (~37-meter by 21-meter) lease area, the three approximately 678 foot (~207 meter) guy wire corridors, and along the length of the proposed approximately 2,000-foot long by 20-foot wide (~610-meter by 6-meter) access/utility easement. Originally forty-eight shovel test pits were

planned for excavation within the proposed project area; however, visual inspection of the project area revealed that the proposed access/utility easement is partially occupied by an existing gravel road. Subsequently, ECA determined that twenty-eight shovel test units located within the proposed project would be an adequate sampling of the APE for direct effects. Generally, ECA excavates shovel test pits that measure approximately 16 inches (41cm) by 16 inches (41cm) in size, excavated to a depth of approximately 36 inches (91cm), or until sterile subsoil, bedrock, or the water table was encountered. Soils associated with the proposed project area are Cecil sandy clay loam, 2 to 8 percent slopes, Pacolet sandy loam, 10 to 15 percent slopes, and Chewacla loam, 0 to 2 percent slopes. Known subsoils for the Cecil series occur at depths between 8 to 26 inches (~20 centimeters to 66 centimeters) and consist of red (10R 4/8) clay. Known subsoils for the Chewacla series occur at depths between 14 to 26 inches (~36 centimeters to 66 centimeters) and consist of dark yellowish brown (10R 4/4) clay loam. Known subsoils for the Pacolet series occur at depths between 3 to 23 inches (~8 centimeters to 58 centimeters) and consist of red (2.5YR 4/6) clay. All excavated soils are screened through a six-millimeter wire mesh archaeology screen to isolate any cultural artifacts. The location of the shovel test pits are shown in Attachment B-2c.

Field Survey Results

The twenty-eight shovel test pits were located as shown on the Site Vicinity Plan (See Attachment B-2c). Visual inspection revealed that the project area is currently occupied by a grassed agricultural pasture. Due to grass cover, ground surface visibility was approximately 10 percent. The proposed lease area is located on a larger parent tract that is occupied by wooded land and agricultural land.

ST1 was excavated to a depth of 11 inches (~28 centimeters). Soil from 0 to 3 inches (~8 centimeters) consisted of sandy loam with a Munsell color of 10YR 4/3 (brown). Soil from 3 to 11 inches (~8 to 28 centimeters) consisted of clay with a Munsell color of 2.5YR 4/6 (red). This profile is generally consistent with the soils series characteristics for the Pacolet series, where subsoil is

typically encountered at 3 to 23 inches (~8 centimeters to 58 centimeters) below the surface. ST2 through ST6, ST8 through ST10, ST12 through ST16, ST20, ST23, and ST25 through ST28 were found to exhibit similar results as ST1. No archaeological or cultural materials were found; no other evidence of archaeological resources was observed. Photographs I and J of Attachment B-1a show Shovel Test Unit #1 (ST1).

ST7 was excavated to a depth of 18 inches (~46 centimeters). Soil from 0 to 2 inches (~5 centimeters) consisted of loam with a Munsell color of 7.5YR 4/4 (brown). Soil from 2 to 7 inches (~5 to 18 centimeters) consisted of loam with a Munsell color of 7.5YR 4/6 (strong brown). Soil from 7 to 18 inches (~18 to 46 centimeters) consisted of clay loam with a Munsell color of 2.5Y 5/4 (light olive brown) This profile is generally consistent with the soils series characteristics for the Chewacla series, where subsoil is typically encountered at 14 to 26 inches (~36 centimeters to 66 centimeters) below the surface. No archaeological or cultural materials were found; no other evidence of archaeological resources was observed.

ST11 was excavated to a depth of 3 inches (~8 centimeters). Soil from 0 to 3 inches (~8 centimeters) consisted of clay loam with a Munsell color of 2.5YR 4/6 (red). The soil became impenetrable due to rocks and hard clay past 3 inches (~8 centimeters). ST17 through ST19, ST21, ST22 and ST24 were found to exhibit similar results as ST11. No archaeological or cultural materials were found; no other evidence of archaeological resources was observed.

Summary of Findings and Recommendations

During the course of this archaeological assessment, no sites, either historic or prehistoric, were located within the APE for direct effects. We believe that no archaeological resources will be affected by the proposed project. Therefore, we recommend a finding of “No Effect” for the proposed undertaking as it relates to archaeology. We request your concurrence with our finding.

Closure

We are submitting this report, on behalf of Davidson Investments LLC, to seek concurrence with our finding and to comply with Federal Communications Commission (FCC) requirements as identified in 47 CFR 1.1307. Seth Goad and Matthew Fields of ECA completed the field survey. Seth Goad conducted the research and authored this assessment. Dina M. Bazzill, MA, RPA reviewed this assessment. Please contact our office with any questions or comments.

Attachment F

Local Government Involvement

Contact Information

- a: List of all government agencies contacted and a summary of contact including copies of relevant documents.**

Please see the *Local Government* pages of the FCC Form 620 for a list of agencies contacted. Documentation of our correspondence follows this page.

- b: Local government agencies that will be contacted, but have not as of this date.**

Not Applicable



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

August 20, 2013

Mr. Joey Raczkowski, Director
Iredell County Planning, Development, and Transportation Department
PO Box 788
Statesville, NC 28687

**Subject: Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson County Broadcasting, Inc. - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooresville, Iredell and Rowan Counties, North Carolina
ECA Project #: P-984**

Mr. Raczkowski:

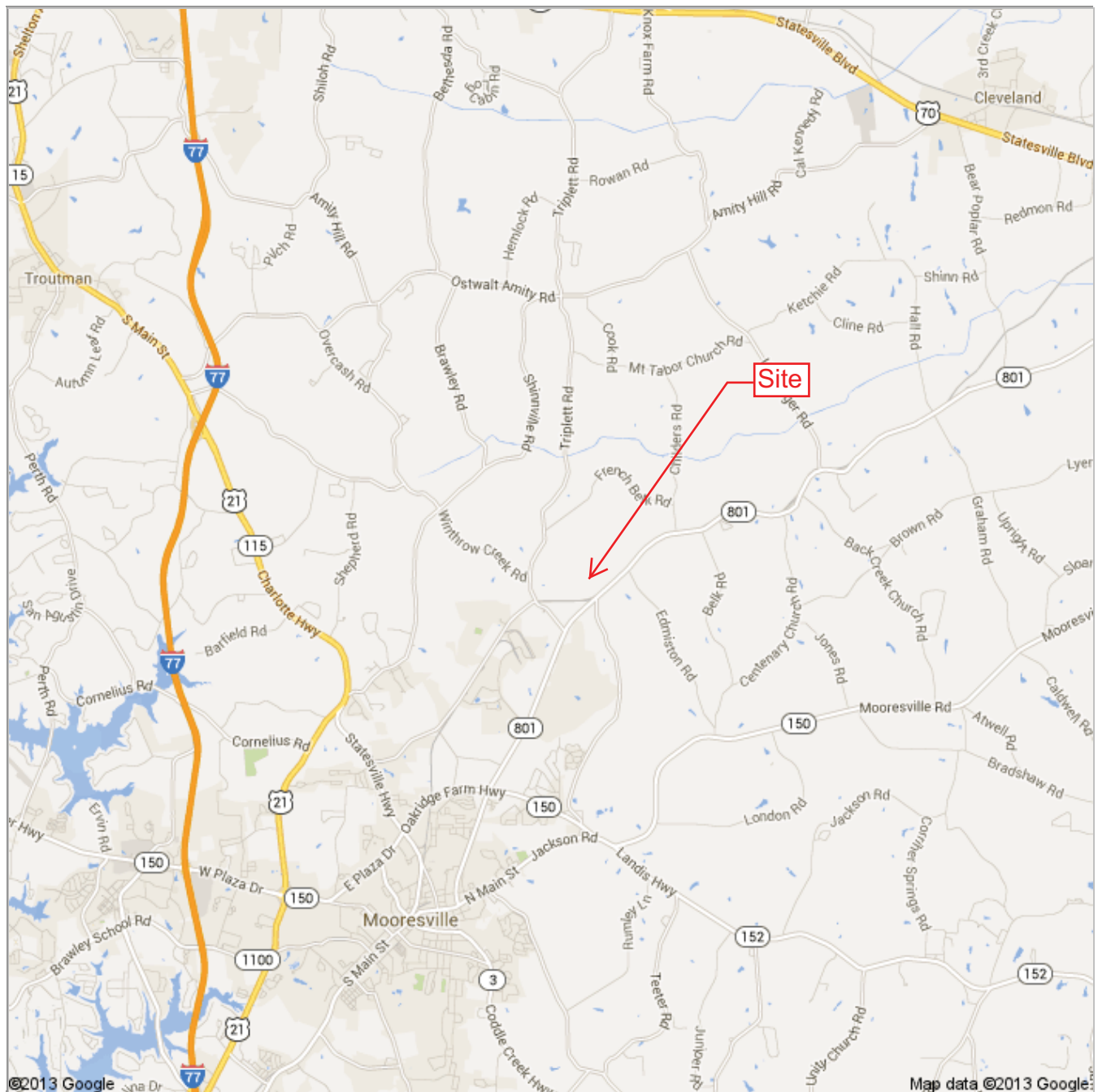
Davidson County Broadcasting, Inc is proposing to construct a 1,180-foot overall height guyed communications structure. The structure would be located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. In accordance with the Federal Communications Commission regulation at 47 C.F.R. 1.1307(a)(4), we are providing notice to you and seeking any comments that you may have regarding the effect of the proposed action described above on **Historic Properties** in your community. A map has been included for your convenience. Based on your level of interest in the proposed project, you may wish to become a consulting party. ***This notice is not intended to supplant any local zoning or permitting requirements, but is necessary before we can request review of the proposed action by the State Historic Preservation Office.***

We welcome any comments that you may have regarding any **Historic Properties** located in your community that could be potentially affected by the proposed action. Please direct your comments to Dina Bazzill, Environmental Corporation of America, 1375 Union Hill Industrial Court, Suite A, Alpharetta, Georgia 30004, 770-667-2040 x111. Because we would like to submit their project to the State Historic Preservation Office for review as soon as possible, we request that you provide any comments that you may have within 30 days. Thank you for your cooperation.

Sincerely,
Environmental Corporation of America

A handwritten signature in black ink, appearing to read 'Seth Goad', is written over a light blue horizontal line.

Seth Goad
Project Manager



Attachment G

Consulting Parties

Public Involvement by Legal Notices, Letters, or Public Meetings

Copies of all relevant documents, including correspondence and legal notices, are provided in the following pages.



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

August 20, 2013

Rowan County Planning and Development Department
402 N. Main Street, Room 204
Salisbury, NC 28144

**Subject: Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson County Broadcasting, Inc. - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooresville, Iredell and Rowan Counties, North Carolina
ECA Project #: P-984**

To Whom It May Concern:

Davidson County Broadcasting, Inc is proposing to construct a 1,180-foot overall height guyed communications structure. The structure would be located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. In accordance with the Federal Communications Commission regulation at 47 C.F.R. 1.1307(a)(4), we are providing notice to you and seeking any comments that you may have regarding the effect of the proposed action described above on **Historic Properties** in your community. A map has been included for your convenience. Based on your level of interest in the proposed project, you may wish to become a consulting party. ***This notice is not intended to supplant any local zoning or permitting requirements, but is necessary before we can request review of the proposed action by the State Historic Preservation Office.***

We welcome any comments that you may have regarding any **Historic Properties** located in your community that could be potentially affected by the proposed action. Please direct your comments to Dina Bazzill, Environmental Corporation of America, 1375 Union Hill Industrial Court, Suite A, Alpharetta, Georgia 30004, 770-667-2040 x111. Because we would like to submit their project to the State Historic Preservation Office for review as soon as possible, we request that you provide any comments that you may have within 30 days. Thank you for your cooperation.

Sincerely,
Environmental Corporation of America

Seth Goad
Project Manager

Attachment G
Page 2 of 8

Applicant's Name: Davidson Investments LLC
Project Name: Edwards (WWLV 94.1 FM Radio Tower)
Project Number: P-984



ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

August 20, 2013

Genealogical Society of Iredell County
PO Box 946
Statesville, NC 28687

**Subject: Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson County Broadcasting, Inc. - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooresville, Iredell and Rowan Counties, North Carolina
ECA Project #: P-984**

To Whom It May Concern:

Davidson County Broadcasting, Inc is proposing to construct a 1,180-foot overall height guyed communications structure. The structure would be located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. In accordance with the Federal Communications Commission regulation at 47 C.F.R. 1.1307(a)(4), we are providing notice to you and seeking any comments that you may have regarding the effect of the proposed action described above on **Historic Properties** in your community. A map has been included for your convenience. Based on your level of interest in the proposed project, you may wish to become a consulting party. ***This notice is not intended to supplant any local zoning or permitting requirements, but is necessary before we can request review of the proposed action by the State Historic Preservation Office.***

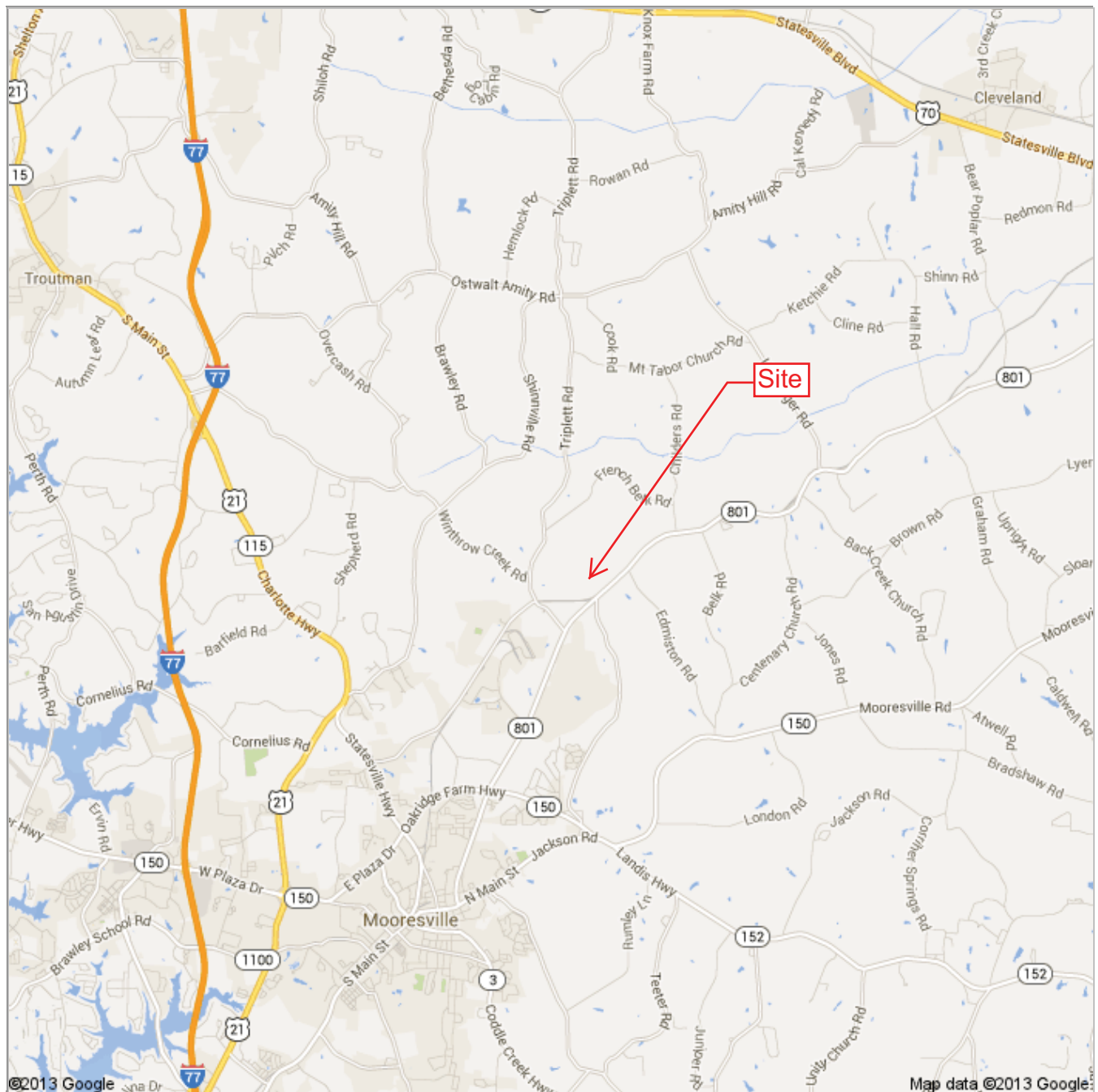
We welcome any comments that you may have regarding any **Historic Properties** located in your community that could be potentially affected by the proposed action. Please direct your comments to Dina Bazzill, Environmental Corporation of America, 1375 Union Hill Industrial Court, Suite A, Alpharetta, Georgia 30004, 770-667-2040 x111. Because we would like to submit their project to the State Historic Preservation Office for review as soon as possible, we request that you provide any comments that you may have within 30 days. Thank you for your cooperation.

Sincerely,
Environmental Corporation of America

Seth Goad
Project Manager

Attachment G
Page 3 of 8

Applicant's Name: Davidson Investments LLC
Project Name: Edwards (WWLV 94.1 FM Radio Tower)
Project Number: P-984





ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

August 20, 2013

Genealogical Society of Rowan County
PO Box 4305
Salisbury, NC 28145

**Subject: Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson County Broadcasting, Inc. - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooresville, Iredell and Rowan Counties, North Carolina
ECA Project #: P-984**

To Whom It May Concern:

Davidson County Broadcasting, Inc is proposing to construct a 1,180-foot overall height guyed communications structure. The structure would be located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. In accordance with the Federal Communications Commission regulation at 47 C.F.R. 1.1307(a)(4), we are providing notice to you and seeking any comments that you may have regarding the effect of the proposed action described above on **Historic Properties** in your community. A map has been included for your convenience. Based on your level of interest in the proposed project, you may wish to become a consulting party. ***This notice is not intended to supplant any local zoning or permitting requirements, but is necessary before we can request review of the proposed action by the State Historic Preservation Office.***

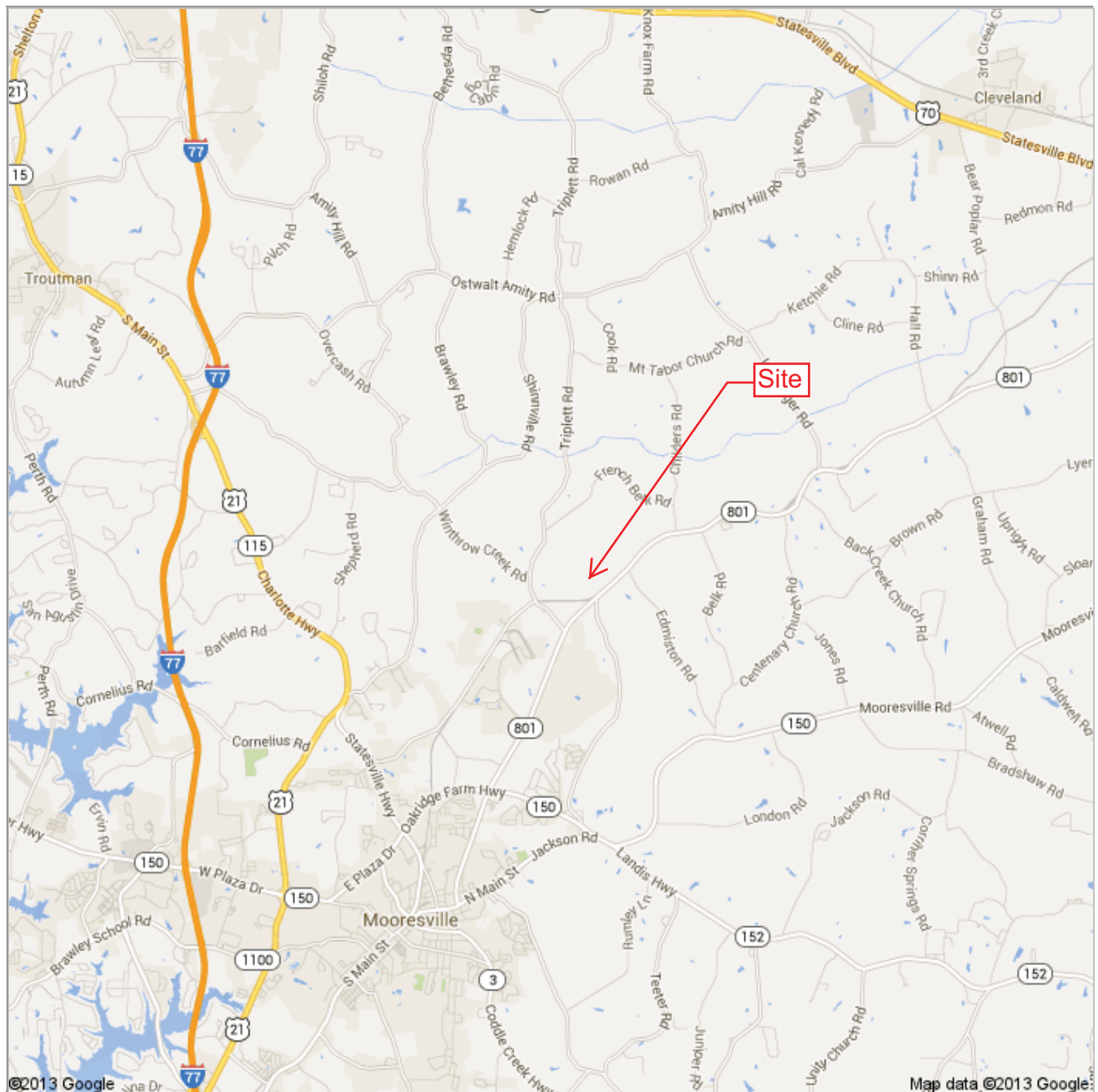
We welcome any comments that you may have regarding any **Historic Properties** located in your community that could be potentially affected by the proposed action. Please direct your comments to Dina Bazzill, Environmental Corporation of America, 1375 Union Hill Industrial Court, Suite A, Alpharetta, Georgia 30004, 770-667-2040 x111. Because we would like to submit their project to the State Historic Preservation Office for review as soon as possible, we request that you provide any comments that you may have within 30 days. Thank you for your cooperation.

Sincerely,
Environmental Corporation of America

Seth Goad
Project Manager

Attachment G
Page 5 of 8

Applicant's Name: Davidson Investments LLC
Project Name: Edwards (WWLV 94.1 FM Radio Tower)
Project Number: P-984



Seth Goad

From: Seth Goad [Seth.Goad@eca-usa.com]
Sent: Friday, July 19, 2013 3:02 PM
To: 'nclegal@carolinaclassifiedmarketplace.com'
Subject: Mooresville Tribune Legal Notice
Attachments: DCBI_Mooresville Tribune_Legal Notice_P-984 (Edwards).doc

Hi Jeanna,

Attached you will find the legal notice we would like to publish on July 24, 2013. If you could get me a price quote before actually processing the notice, that would be great. Also, we would like to publish the notice in the ***Mooresville Tribune***, as the site is in Mooresville. Let me know if you have any questions.

Thanks!

Seth Goad
Environmental Corporation of America (ECA)
1340 Patton Avenue, Suite K
Asheville, NC 28806
Office: 828-505-0755
Fax: 828-505-0959
Seth.Goad@eca-usa.com
www.eca-usa.com

Alpharetta, GA / Asheville, NC / Chicago, IL / Nashville, TN / West Palm Beach, FL

**Public Notice to be Published in the *Mooreville Tribune* newspaper on
Wednesday, July 24, 2013**

(start)

Davidson County Broadcasting, Inc is proposing to construct a 1,130-foot tall (1,180-foot overall height with appurtenances) guyed communications structure. The tower would be located at 1095 Mazeppa Road, Mooresville, Iredell County, North Carolina. The tower will be equipped with FAA "F" series lighting (dual high intensity lighting).

Davidson County Broadcasting, Inc. invites comments from any interested party on the impact the proposed undertaking may have on any districts, sites, buildings, structures or objects significant in American history, archaeology, engineering, or culture that are listed or determined eligible for listing in the National Register of Historic Places. Comments pertaining specifically to historic resources may be sent to Environmental Corporation of America, ATTN: Dina Bazzill, 1375 Union Hill Industrial Court, Suite A, Alpharetta, Georgia 30004. Ms. Bazzill can be reached at (770) 667-2040 ext. 111. Comments must be received within 30 days of the date of this notice.

In addition, any interested party may also request further environmental review of the proposed action by notifying the FCC of the specific reasons that the action may have a significant impact on the quality of the human environment pursuant to 47 CFR Section 1.1307. This request must only raise environmental concerns and can be filed online using the FCC pleadings system or mailed to FCC Requests for Environmental Review, Attn: Ramon Williams, 445 12th Street SW, Washington, DC 20554 within 30 days of the date that this notice is published. Instruction for filing an online Request for Environmental Review can be found at www.fcc.gov/asr/environmentalrequest. Refer to File No. A0843844 when submitting the request and to view the specific information about the proposed action.

(end)

Attachment H

Designation of SHPO/THPO

SHPO/THPO Specific Forms

The following pages include copies of all additional forms specific to the Section 106 Review process for the lead SHPO/THPO reviewing this filing.

Environmental Corp. of America
1340 Patton Avenue, Suite K
Asheville, NC 28806



Phone: 828-505-0755
Fax No.: 828-505-0959

From: Seth Goad
Seth.goad@eca-usa.com

To: Renee Gledhill-Earley
North Carolina Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

Phone: 919-807-6579
Fax No: 919-807-6599

TRANSMITTAL COVER SHEET

Date: July 16, 2013

Subject: Proposed 1,130-Foot Guyed Telecommunications Structure
(1,180-Feet Overall Height with Appurtenances)
Davidson County Broadcasting, Inc. – Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell County, North Carolina
Shepherds, NC (1969) USGS Quadrangle Map
Lat: 35° 39' 5" N, Long: 80° 46' 1" W
ECA Project No.: P-984

Notes: Ms Gledhill-Earley:

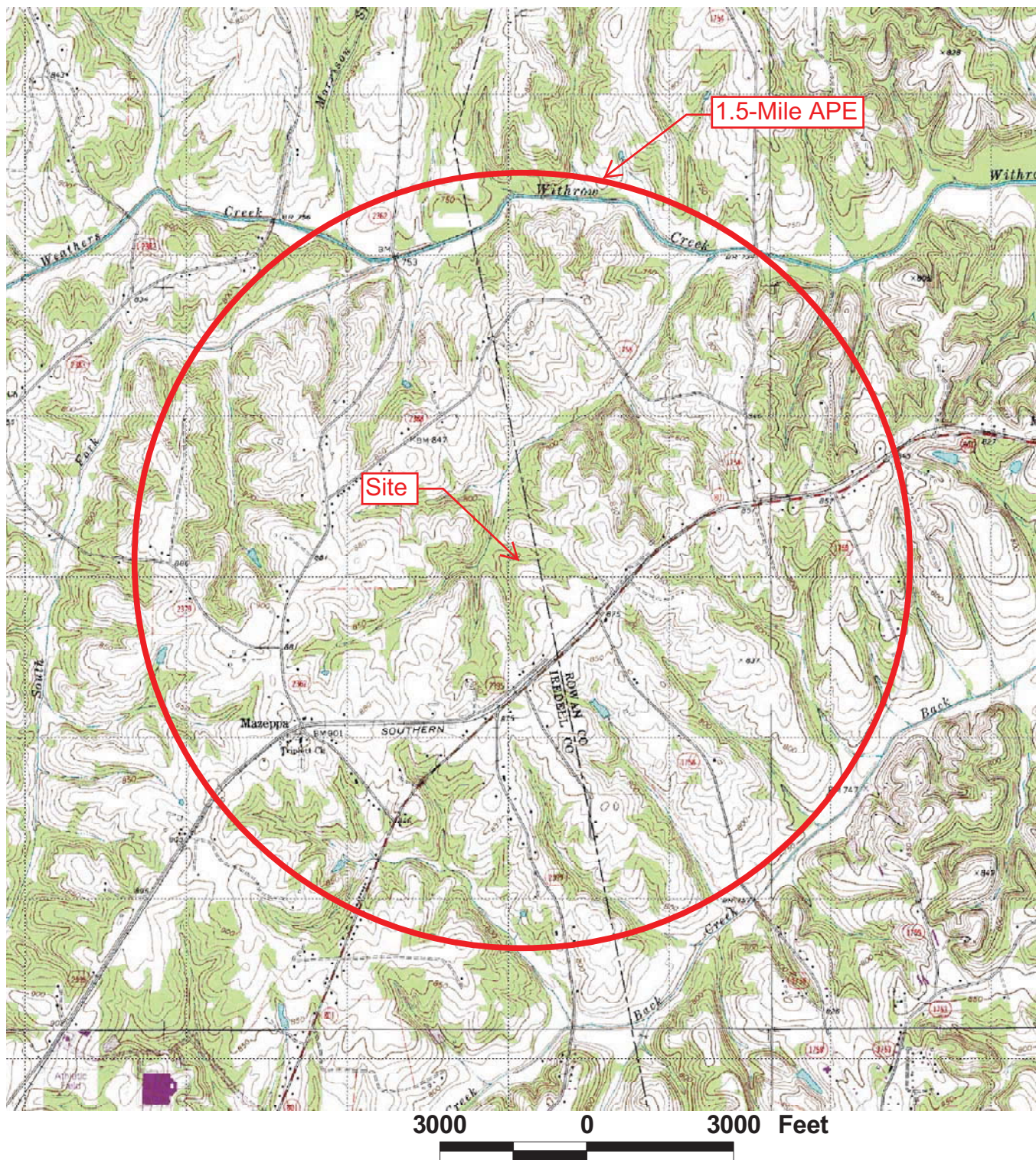
Attached are two topographic maps with the 1 ½-mile APE, 2-mile radius, and 3-mile radius and Communications Tower Review Form for the subject site described above. Contact me if you have any questions or need any additional information on the proposed project.

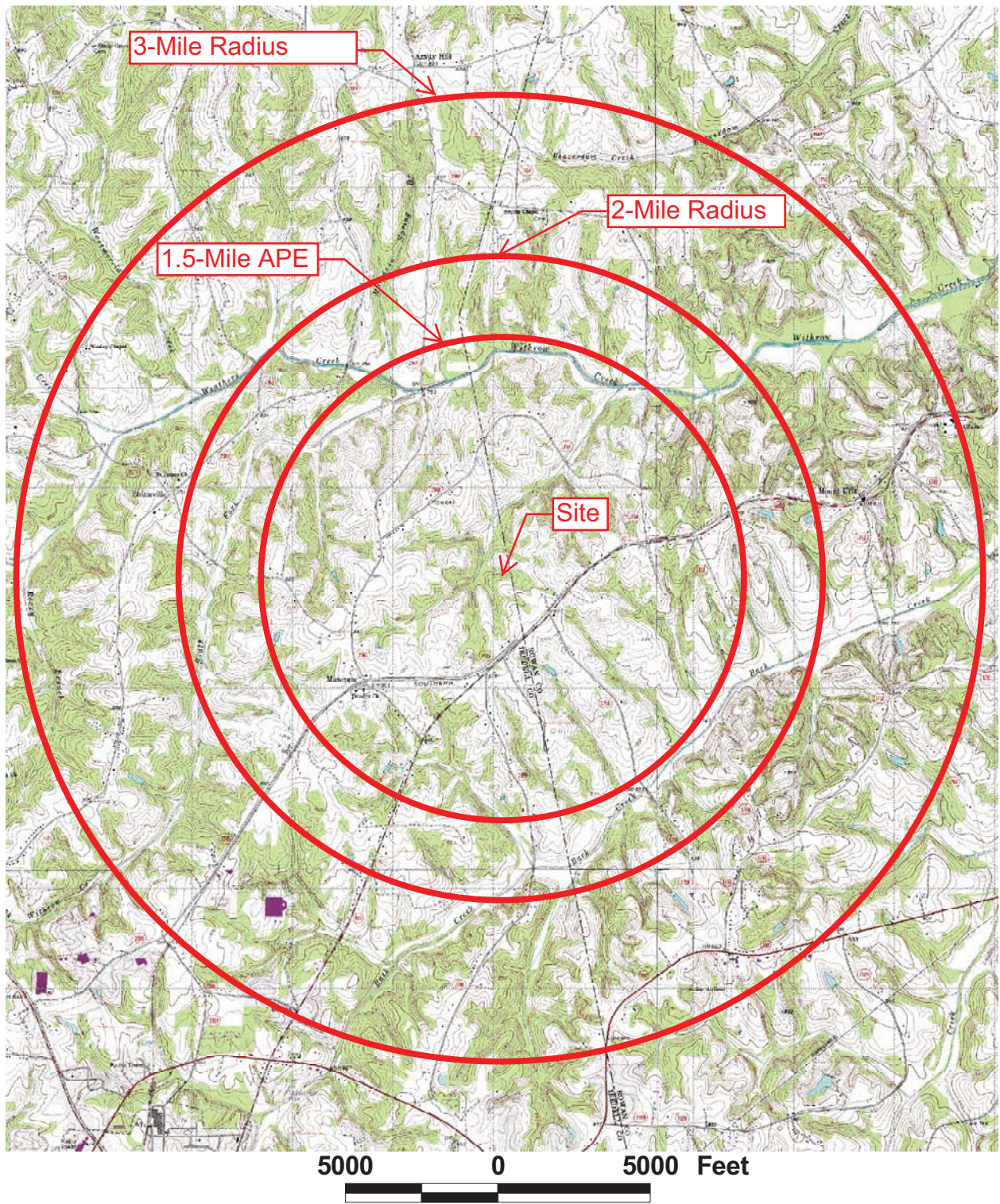
Thank you

Sincerely,

A handwritten signature in dark ink, appearing to read "Seth Goad".

Seth Goad
Project Manager





Communications Tower Review Form

I. Applicant Information:

Preparer/Company: Environmental Corporation of America
Address: 1340 Patton Avenue, Suite K, Asheville, NC 28806
Phone/Fax/E-mail: P: 828-505-0755 F: 828-505-0959 / seth.goad@eca-usa.com

For North Carolina HPO
Use Only

II. Tower Information:

 (Attach copy of USGS map or photocopy of quad on reverse; include 1 and 2 mile radius around site)

☒ Raw Land (New) ☐ Co-Location Applicant's Identification # _____
Address: 1095 Mazeppa Road
County: Iredell County, North Carolina FCC Registration No. _____
Tower type and height: Guyed 1,130 feet Quad Name: Shepherds, NC (1969)
(1,180 ft. overall height)

III. Identification of Historic Properties

List sites by site number and status: NR = National Register listed; SL = Study List; DOE = Determination of Eligibility;
LD = Local Designation; UA = Unassessed

Archaeology

of recorded sites in immediate area of tower: _____

Architecture

of recorded sites within 1.5 -mile radius: _____

IV. Additional Information/Investigation Needed:

☐ Survey
☐ Testing of sites _____
Recommended by/on: _____
(Office of State Archaeology)

☐ Photo Reconnaissance
☐ Balloon Test
Recommended by/on: _____
(Survey & Planning Branch)

V. Recommendations/Final Determination:

☐ Recommendations for additional work are shown above.
☐ The proposed communication tower will _____ affect historic properties in the area of potential effect.

Renee Gledhill-Earley, Environmental Review Coordinator

Date

cc: FCC

February, 2001

Bibliography

Federal Communications Commission Federal Register, 47 CFR Part 1, Nationwide Programmatic Agreement for Review Under the National Historic Preservation Act; Final Rule, WT Docket No. 03-128; FCC 04-222, January 4, 2005.

Google Earth 2013 Aerial Photograph.

Google Map, retrieved from
<http://maps.google.com>.

National Register Information System, retrieved from
<http://www.nps.gov/nr/>.

North Carolina Historic Preservation Office review of archaeological and historical files and surveys by Renee Gledhill-Earley on July 22, 2013.

United States Department of Agriculture Soil Conservation Service, Soil Survey of Iredell and Rowan Counties, North Carolina.

USGS, 7.5-minute Topographic Quadrangle Map for *Shepherds, NC (1969)* and *Cleveland, NC (1970, photorevised 1988)*.

APPENDIX F

Native American Documentation

TRIBAL INVOLVEMENT
TCNS #97346 - INITIAL CONTACT May 3, 2013

INDIAN TRIBE OR NATION	SECOND TRIBAL CONTACT DATE	RESPONSE RECEIVED FROM TRIBE	REFER TO FCC	TRIBAL CLEARANCE
TUSCARORA NATION	NA	7/19/13 - via TCNS requested 30-Day Response Limit Agreement; 8/18/13 – cleared via agreement	NA	8/18/13
CHEROKEE NATION	8/29/13 – Archaeological Assessment sent via email	7/19/13 – Standing request for Archaeological Assessment then 30 day response limit agreement; 8/29/13 – cleared via TCNS	NA	8/29/13
EASTERN SHAWNEE TRIBE OF OKLAHOMA	8/29/13 – Archaeological Assessment, SHPO response, and review fee sent via mail	7/19/13 and 7/29/13 - via TCNS requested Archaeology Assessment, SHPO response, and review fee; 10/21/13 – via email	NA	10/21/13
SHAWNEE TRIBE	8/29/13 – Archaeological Assessment, SHPO response, and review fee sent via mail	7/19/13 and 7/23/13 - via TCNS requested Archaeological Assessment, SHPO response, and review fee; 9/10/13 – via fax	NA	9/10/13
CATAWBA INDIAN NATION CULTURAL PRESERVATION PROJECT	8/29/13 – Limited Section 106 Review documentation, SHPO response, and review fee sent via mail	7/19/13 - via TCNS requested Limited Section 106 Review documentation, SHPO response, and review fee; 9/26/13 – via emailed letter	NA	9/26/13

TCNS Notification Statements

The information for Notification ID 97346 is shown.

Notification Information

Notification Status: **Proposed**

FCC Email/Letter Notifications Sent to Tribe: **07/18/2013**

FCC Email/Letter Notifications Sent to Builder: **07/19/2013**

Notification Submitted: **07/16/2013**

Comments Received

Notifier Information

Tower Owner
Individual:

Tower Owner Entity: **Environmental Corporation of America**

Consultant: **Dina M Bazzill**

PO Box:

Address: **1375 Union Hill Industrial Court**
Suite A

City: **Alpharetta**

State: **GEORGIA**

Zip Code: **30004**

Phone: **770-667-2040**

Email: **tribal.notify@eca-usa.com**

Structure Data

Structure Type: **GTOWER - Guyed Structure Used for Communication Purposes**

NAD83 Latitude: **35 ° 39 ' 5.0 " N(+)**

NAD83 Longitude: **80 ° 46 ' 1.0 " W(-)**

Address or Geographical
Location Description: **1095 Mazeppa Road**

City: **Mooreville**

State: **NORTH CAROLINA**

County: **IREDELL**

Ground Elevation: **248.1** meters

Support Structure Height: **344.4** meters above ground level

Overall Structure Height: **359.7** meters above ground level

Overall Height Above
Mean Sea Level: **607.8** meters

Seth:

The Height has been updated on this TCNS Notification as requested. See attached screenshot of the updated database record.

****NOTE****

In order to streamline and provide prompt responses to your requests for corrections to TCNS notifications, we are changing the submission process for these requests. You will no longer email me (Diane Dupert) requesting corrections to your TCNS notifications. We are requesting that you use our E-support page (<https://esupport.fcc.gov/request.htm>) and submit a Help Request ticket to request corrections to TCNS Notification data.

You do not need to submit a separate ticket for each notification you are requesting a correction for. You can list correction requests for multiple TCNS notifications in one Help Request ticket. Your ticket will be routed to a member of my staff for proper handling. When your correction has been completed, we will notify you accordingly via an automated email. It will also include the usual screenshots of the updated database record(s).

See attached document for further instructions.

Thank you,
Diane

From: Seth Goad [mailto:Seth.Goad@eca-usa.com]
Sent: Thursday, November 14, 2013 3:29 PM
To: Diane Dupert
Subject: TCNS #97346 height change

Good Afternoon,

The proposed tower's height (TCNS# 97346) will need to be changed from a 1,180 feet (overall height) to **1,190 feet (overall height)**. The tower type will remain the same. If you could update your system with the new information, that would be great. Thank you

Seth Goad
Environmental Corporation of America (ECA)
1340 Patton Avenue, Suite K
Asheville, NC 28806
Office: 828-505-0755
Fax: 828-505-0959
Seth.Goad@eca-usa.com
www.eca-usa.com

Alpharetta, GA / Asheville, NC / Chicago, IL / Nashville, TN / West Palm Beach, FL

Seth Goad

From: Tribal Notify [tribal.notify@eca-usa.com]
Sent: Tuesday, July 16, 2013 8:52 AM
To: Amy Williams; 'Autumn Dubois'; Ben Salter; Dave McGlothlin; Eric Johnson; Grant Burnham; 'Kelby Williams'; Matthew Beazley; Michelle Taylor; Dina Bazzill; Mark Montes; Cody Zipperer; Seth Goad; Travis LaForge; Marshall West; Billy McCarley
Subject: FW: Proposed Tower Structure Info - Email ID #3385391

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

From: towernotifyinfo@fcc.gov [mailto:towernotifyinfo@fcc.gov]
Sent: Tuesday, July 16, 2013 8:50 AM
To: tribal.notify@eca-usa.com
Subject: Proposed Tower Structure Info - Email ID #3385391

Dear Dina M Bazzill,

Thank you for submitting a notification regarding your proposed construction via the Tower Construction Notification System. Note that the system has assigned a unique Notification ID number for this proposed construction. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the construction you have proposed:

Notification Received: 07/16/2013

Notification ID: 97346

Tower Owner Individual or Entity Name: Environmental Corporation of America

Consultant Name: Dina M Bazzill

Street Address: 1375 Union Hill Industrial Court
Suite A

City: Alpharetta

State: GEORGIA

Zip Code: 30004

Phone: 770-667-2040

Email: tribal.notify@eca-usa.com

Structure Type: GTOWER - Guyed Structure Used for Communication Purposes

Latitude: 35 deg 39 min 5 sec N

Longitude: 80 deg 46 min 1 sec W

Location Description: 1095 Mazeppa Road

City: Mooresville

State: NORTH CAROLINA

County: IREDELL

Ground Elevation: 248.1 meters

Support Structure: 344.4 meters above ground level

Overall Structure: 359.7 meters above ground level

Overall Height AMSL: 607.8 meters above mean sea level

Seth Goad

From: Tribal Notify [tribal.notify@eca-usa.com]
Sent: Friday, July 19, 2013 3:04 AM
To: Amy Williams; 'Autumn Dubois'; Ben Salter; Dave McGlothlin; Eric Johnson; Grant Burnham; 'Kelby Williams'; Matthew Beazley; Michelle Taylor; Dina Bazzill; Mark Montes; Cody Zipperer; Seth Goad; Travis LaForge; Marshall West; Billy McCarley; Matthew Fields; Orion Kroulek
Subject: FW: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #3387268

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

From: towernotifyinfo@fcc.gov [mailto:towernotifyinfo@fcc.gov]
Sent: Friday, July 19, 2013 3:01 AM
To: tribal.notify@eca-usa.com
Cc: kim.pristello@fcc.gov; diane.dupert@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #3387268

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Chief Leo R Henry - Tuscarora Nation - Via: Lewiston, NY - regular mail
Details: If the Applicant/tower builder receives no response from the Tuscarora Nation within 30 days after notification through TCNS, the Tuscarora Nation has no interest in participating in pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify the Tuscarora Nation in the event archaeological properties or human remains are discovered during construction.

2. Policy Analyst Richard L Allen - Cherokee Nation - Tahlequah, OK - electronic mail

Details: The TCNS Details do not provide me enough information to conduct a proper assessment of the projects on behalf of the Cherokee Nation. Therefore, I request that I be sent a brief summary of the Phase I findings [please try to limit the summary to between 1--10 pages], a topo of the area, and relevant photos. Please send these by email to rallen@cherokee.org. Please treat this request for additional material as a routine supplement to the TCNS Details Notification for each of your projects that fall within our Tribe's areas of geographic interest. Consequently, if you do not receive a response from me within 30 days from the date on which you e-mailed the supplemental items to me, you may move forward with the 20-Day Letter procedures pursuant to the FCC's guidelines. Thank you. -- Dr. Richard L. Allen

3. THPO Robin Dushane - Eastern Shawnee Tribe of Oklahoma - Seneca, MO - electronic mail

Details: Greetings from the Eastern Shawnee Tribe of Oklahoma.

The Eastern Shawnee Tribe of Oklahoma is interested in consulting on this tower or broadband project, just as we are interested in consulting on all federal undertakings in our homelands and otherlands of interest.

Consultation regarding our heritage resources is one of the activities required by the National Historic Preservation Act (NHPA) for undertakings licensed or permitted by federal agencies such as the FCC.

We have recently developed new NHPA consultation procedures for cell tower projects (dated 3-1-2013). These procedures may be obtained by e-mailing or calling the cell tower program archaeologist, Rebecca Hawkins (algonquin@neok.com; 918-541-0782). All further electronic correspondence regarding this tower should also be directed to Ms. Hawkins at that e-mail address. This is the e-mail address that we will use for all of our TCNS communications and final responses.

Thank you,

Robin Dushane, THPO
Eastern Shawnee Tribe of Oklahoma

4. THPO Kim Jumper - Shawnee Tribe - Miami, OK - regular mail

Details: THIS IS YOUR OFFICIAL NOTICE THAT THE SHAWNEE TRIBE IS INTERESTED IN CONSULTING ON ALL PROJECTS BUILT IN OUR AREAS OF GEOGRAPHIC INTEREST.

ATTENTION, NEW INFORMATION: Our procedures were updated on 14 January 2008. Please call Kim Jumper, THPO, at 918-542-2441, so that she can send you a copy.

If your tower is a co-location, please fax us this information to let us know. We cannot always tell from the TCNS web site that a tower is a co-location. We require a written response from you to let us know that it is a co-location. If a co-location project includes some new ground

disturbance (such as from an expanded compound or access road, or construction of an ancillary structure), the Shawnee Tribe treats such a project the same as any other non co-location project.

Our correct mailing/physical address is: 29 South Highway 69A. Our correct phone number is (918-542-2441) and our historic preservation fax line is (918-542-9915). THPO Kim Jumper manages all cell tower consultation.

As of 26 June 2006, all of the faxed responses of our final comments on a tower site will contain an original Shawnee Tribe signature. Each final comment fax is signed individually. Copies may be compared, for authentication, against the original in our files. If a final comment fax does not contain a signature, it is not valid. ALL FINAL COMMENTS FROM THE SHAWNEE TRIBE ARE WRITTEN; FINAL COMMENTS ARE NEVER PROVIDED VERBALLY. IF THE SHAWNEE TRIBE IS CREDITED WITH HAVING GIVEN A VERBAL RESPONSE, THAT RESPONSE IS NOT VALID.

If you receive notification through the TCNS listing the Shawnee Tribe, that is an indication that the Shawnee Tribe is interested in consulting on the tower for which that notification was received. Please consider that our official indication of interest to you. The Shawnee Tribe considers the Tower Construction Notification System's weekly e-mail to be the first notification that we receive that a tower will be constructed in an area of our concern. We do not view the TCNS notification as completion of 106 consultation obligations.

The Shawnee Tribe has developed streamlined consultation procedures for cell tower developers and their subcontractors. If you do not have a copy of the procedures - most recently updated on 14 January 2008 - please contact us, as you must follow these procedures to consult with us on cell tower projects. Call us at 918-542-2441 or fax us at 918-542-9915. It is the tower builder's responsibility to make sure that you have our most recent consultation procedures.

PLEASE DO NOT SEND US INFORMATION, QUERIES, OR COMMENTS ELECTRONICALLY. SINCE 1 DECEMBER 2005, WE HAVE NOT HANDLED ANY CELL TOWER CONSULTATION, INQUIRIES, OR CORRESPONDENCE VIA E-MAIL.

5. THPO and Executive Director Dr. Wenonah G Haire - Catawba Indian Nation Cultural Preservation Project - Rock Hill, SC - electronic mail and regular mail

Details: The Catawba Indian Nation Tribal Historic Preservation Office requests that you send us by regular mail the following information needed to complete our research for the your proposed project:

Project Name _____

Project Number _____

____ 1. The name, complete address, phone number, fax number and e-mail address of the project manager.

____ 2. The project location plotted on a topo map.

____ 3. The project name, address and location; street or highway, city, county, state.

____ 4. A brief description of the proposed project. Please include the size of the proposed project site and the size of the area where ground-disturbing activities will be taking place and the type of disturbance anticipated.

____ 5. A brief description of current and former land use. We are primarily interested in ground disturbance and do not need detailed

information or photographs of historic structures in the project area.

____ 6. A list of all recorded archaeological sites within one half (1/2) mile of the project area.

____ 7. A list of all eligible and potentially eligible National Register of Historic Places sites within one half (1/2) mile of the proposed project area.

____ 8. If there has been an archaeological survey done in the area, a copy of that report.

____ 9. It is not necessary to send original color photos if you can provide high-resolution color copies.

____ 10. A letter of concurrence from the appropriate State Historic Preservation Office.

If you use the FCC Form 620, please do not send Attachments 1 through 6. They are not necessary for our determination. We do not have an interest in projects that require no ground disturbance.

Please note: Our research/processing fee is currently \$250. This fee will be changing to \$400 effective March 1, 2012. Please send these requested materials in hard copy format. Send to:

CIN-THPO
1536 Tom Steven Road
Rock Hill, S.C. 29730

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. SHPO Katherine Slick - Historic Preservation Div. - Office of Cultural Affairs - Santa Fe, NM - electronic mail and regular mail

7. Environmental Review Coordinator Renee Gledhill Earley - NC State Historic Preservation Office - Raleigh, NC - electronic mail

8. Deputy SHPO David Brook - Historic Preservation Office - Raleigh, NC - electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 07/16/2013
Notification ID: 97346
Tower Owner Individual or Entity Name: Environmental Corporation of America
Consultant Name: Dina M Bazzill
Street Address: 1375 Union Hill Industrial Court
Suite A
City: Alpharetta
State: GEORGIA
Zip Code: 30004
Phone: 770-667-2040
Email: tribal.notify@eca-usa.com

Structure Type: GTOWER - Guyed Structure Used for Communication Purposes
Latitude: 35 deg 39 min 5.0 sec N
Longitude: 80 deg 46 min 1.0 sec W
Location Description: 1095 Mazeppa Road
City: Mooresville
State: NORTH CAROLINA
County: IREDELL
Ground Elevation: 248.1 meters
Support Structure: 344.4 meters above ground level
Overall Structure: 359.7 meters above ground level
Overall Height AMSL: 607.8 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Follow Up Letters to Tribes

Seth Goad

From: Seth Goad [Seth.Goad@eca-usa.com]
Sent: Thursday, August 29, 2013 10:18 AM
To: 'pat-gwin@cherokee.org'
Subject: TCNS # 97346
Attachments: TCNS 97346 Tribal Arch Assessment.pdf

Pat Gwin, Cherokee Nation,

As requested via TCNS, please find the attached Archaeological Assessment for TCNS# 97346. Please let me know if you have any questions.

Thanks!

Seth Goad
Environmental Corporation of America (ECA)
1340 Patton Avenue, Suite K
Asheville, NC 28806
Office: 828-505-0755
Fax: 828-505-0959
Seth.Goad@eca-usa.com
www.eca-usa.com

Alpharetta, GA / Asheville, NC / Chicago, IL / Nashville, TN / West Palm Beach, FL

Environmental Corp. of America
1340 Patton Avenue, Suite K
Asheville, NC 28806



Phone: 828-505-0755
Fax No.: 828-505-0959

From: Seth Goad
Seth.goad@eca-usa.com

To: Ms. Robin Dushane, THPO
Cultural Preservation Department
Eastern Shawnee Tribe of Oklahoma
12755 South 705 Road
Wyandotte, OK 74370

TRANSMITTAL COVER SHEET

Date: August 29, 2013

Section 106 Review
TCNS ID #97346
Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell County, North Carolina
ECA Project #: P-984

Notes: Dear Ms. Dushane:

On July 19, 2013 your offices requested an Archeological Assessment, State Historic Preservation Office response, and a review fee in order to review the above tower location. Attached are the above mentioned forms and payment.

If you have any questions please contact me at 828-505-0755.

Thank you,

A handwritten signature in dark ink, appearing to read 'Seth Goad', written in a cursive style.

Seth Goad
Project Manager

Environmental Corp. of America
1340 Patton Avenue, Suite K
Asheville, NC 28806



Phone: 828-505-0755
Fax No.: 828-505-0959

From: Seth Goad

To: Shawnee Tribe
Attn: Ms. Kim Jumper
Historic Preservation Department
29 South Highway 69A
Miami, OK 74354

TRANSMITTAL COVER SHEET

Date: August 29, 2013

Section 106 Review
TCNS ID #97346
Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell County, North Carolina
ECA Project #: P-984

Notes: Dear Ms. Jumper:

On July 19, 2013 your offices requested an Archeological Assessment, State Historic Preservation Office response, and a review fee in order to review the above tower location. Attached are the above mentioned forms and payment.

If you have any questions please contact me at 828-505-0755.

Thank you,

A handwritten signature in cursive script, appearing to read "Seth Goad".

Seth Goad
Project Manager

Environmental Corp. of America
1340 Patton Avenue, Suite K
Asheville, NC 28806



Phone: 828-505-0755
Fax No.: 828-505-0959

From: Seth Goad
Seth.goad@eca-usa.com

To: Dr. Wenonah Haire
Catawba Indian Nation
1536 Tom Steven Road
Rock Hill, SC 29730

TRANSMITTAL COVER SHEET

Date: August 29, 2013

Section 106 Review
TCNS ID #97346
Proposed 1,130-Foot Guyed Communications Structure
(1,180-Foot Overall Height with Appurtenances)
Davidson Investments LLC - Edwards (WWLV 94.1 FM Radio Tower)
1095 Mazeppa Road
Mooreville, Iredell County, North Carolina
ECA Project #: P-984

Notes: Dear Ms. Haire:

On July 19, 2013 your offices requested a Section 106 Review, State Historic Preservation Office Response, and a review fee in order to review the above tower location. Attached are the above mentioned forms and payment.

If you have any questions please contact me at 828-505-0755.

Thank you,

Seth Goad
Project Manager

Responses/Standing Requests Received From Tribes

Seth Goad

From: Tribal Notify [tribal.notify@eca-usa.com]
Sent: Thursday, August 29, 2013 10:22 AM
To: Amy Williams; 'Autumn Dubois'; Ben Salter; Dave McGlothlin; Eric Johnson; Grant Burnham; 'Kelby Williams'; Matthew Beazley; Michelle Taylor; Dina Bazzill; Mark Montes; Cody Zipperer; Seth Goad; Travis LaForge; Marshall West; Billy McCarley; Matthew Fields; Orion Kroulek
Subject: FW: Reply to Proposed Tower Structure (Notification ID: 97346) - Email ID #3444698

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

From: towernotifyinfo@fcc.gov [mailto:towernotifyinfo@fcc.gov]
Sent: Thursday, August 29, 2013 10:22 AM
To: tribal.notify@eca-usa.com
Cc: tcns.fccarchive@fcc.gov
Subject: Reply to Proposed Tower Structure (Notification ID: 97346) - Email ID #3444698

Dear Dina M Bazzill,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Administration Liaison Pat Gwin of the Cherokee Nation in reference to Notification ID #97346:

We have no interest in this site. However, if the Applicant discovers archaeological remains or resources during construction, the Applicant should immediately stop construction and notify the appropriate Federal Agency and the Tribe.

The Cherokee Nation does not currently maintain records of cultural resources in this/these geographic area(s). Thus, we would request you conduct your inquiry with the geographically pertinent/appropriate Tribal and State Historic Preservation Office(s). However, if during the conduct of these projects, items of cultural significance are discovered, the Cherokee Nation requests you recontact the Cherokee Nation for further consultation.

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 07/16/2013
Notification ID: 97346
Tower Owner Individual or Entity Name: Environmental Corporation of America
Consultant Name: Dina M Bazzill
Street Address: 1375 Union Hill Industrial Court
Suite A
City: Alpharetta
State: GEORGIA
Zip Code: 30004
Phone: 770-667-2040
Email: tribal.notify@eca-usa.com

Structure Type: GTOWER - Guyed Structure Used for Communication Purposes
Latitude: 35 deg 39 min 5.0 sec N
Longitude: 80 deg 46 min 1.0 sec W
Location Description: 1095 Mazeppa Road

City: Mooresville
State: NORTH CAROLINA
County: IREDELL
Ground Elevation: 248.1 meters
Support Structure: 344.4 meters above ground level
Overall Structure: 359.7 meters above ground level
Overall Height AMSL: 607.8 meters above mean sea level

Seth Goad

From: Dina Bazzill [dina.bazzill@eca-usa.com]
Sent: Monday, October 21, 2013 1:22 PM
To: Amy Williams; 'Autumn Dubois'; Ben Salter; Cody Zipperer; Dave McGlothlin; Dina Bazzill; Eric Johnson; Grant Burnham; 'Kelby Williams'; 'Mark Montes'; 'Marshall West'; Matthew Beazley; Matthew Fields; Michelle Taylor; Orion Kroulek; Seth Goad; Travis LaForge
Subject: FW: ESTO - 97346,

Dina M. Bazzill - MA, RPA
 Principal Archaeologist/Historian
 Environmental Corporation of America
 1375 Union Hill Industrial Court, Suite A
 Alpharetta, GA 30004
 (770) 667-2040 Extension 111 (Office)
 (770) 667-2041 (Fax)
dina.bazzill@eca-usa.com
www.eca-usa.com

Alpharetta, GA / Asheville, NC / Chicago, IL / Nashville, TN / West Palm Beach, FL

From: Algonquin Consultants, Inc. [mailto:algonquin@neok.com]
Sent: Monday, October 21, 2013 11:53 AM
To: 'Dina Bazzill'
Subject: RE: ESTO - 96966, 98179, 97346, 97678, 94090, 97327

For the towers listed above:

The Eastern Shawnee Tribe of Oklahoma thanks you for the efforts that you have made to consult with us. Based on our own information and that which you have provided, we are satisfied that it is unlikely that any significant cultural resources related to our own past occupation of the region will be affected by construction of this tower. We thus will not object to its construction. We do urge you to comply with requests from SHPO staff regarding historic architecture or other concerns that they may have.

Should any precontact archaeological materials, including human remains, be discovered either during construction or future ground-disturbing activities at this tower location, please consult with us again at such time. As well, please alert appropriate parties regarding our concerns for future discoveries and the need to contact us in the event that precontact cultural materials are encountered.

We further request that contractors and developers follow best practices available for minimizing impact from both construction and use of cell towers on the environment. We are particularly concerned about the wellbeing of bird, bat, and other species who might experience negative impacts from cell towers. Please re-vegetate construction areas with native plant species whenever possible.

Thank you for consulting with us.

Respectfully,

Rebecca Hawkins, Archaeologist
 for Glenna Wallace, Chief
 Eastern Shawnee Tribe of Oklahoma

10/21/2013



SHAWNEE TRIBE
HISTORIC PRESERVATION DEPARTMENT
29 SOUTH HIGHWAY 69A
MIAMI, OKLAHOMA 74354
918 ^ 542 ^ 2441 PHONE 918 ^ 542 ^ 9915 FAX

FACSIMILE COVER PAGE

To: Seth FROM: KIM JUMPER
FIRM/AGENCY: ECA DATE/TIME: 4/10/13
FAX NUMBER: 828-505-0959 NO. OF PAGES, INCLUDING COVER: 1
PHONE NUMBER: _____ MEMO: 97346
P- 984

Message: The Shawnee Tribe's Tribal Historic Preservation Officer concurs that no known historic properties will be negatively impacted by construction of this tower site (see memo line above for TCNS number/s). The Shawnee Tribe's archives do not reveal any issues of concern at this tower location. In the event that archaeological materials are encountered later during construction, use, or maintenance of this tower location, please re-notify us at that time as we would like to resume consultation under such a circumstance.

The Shawnee Tribe's Environmental and Natural Resources Department takes this opportunity to express its concerns that telecommunication towers can have a potentially destructive impact on bats and migratory birds, particularly those that migrate at night, including species listed as threatened and endangered by both states and the federal government, as well as other species. The Shawnee Tribe suggests that this tower be constructed in accordance with the guidelines available from the US Fish and Wildlife Service to reduce the adverse effects of telecommunications towers on migratory birds; these guidelines may be found at: www.fws.gov/migratorybirds/issues/towers/comtow.html.

The Shawnee Tribe's Environmental and Natural Resources Department is further concerned that the proliferation of cell towers may play a role in honey bee Colony Collapse Disorder. We acknowledge that cell phone technology may not be to blame, especially by itself, as other potential causative factors for the decline have been noted, such as insecticides, tracheal and varroa mites [an immunosuppressant], other parasites, pesticides used on hives to eliminate parasites, genetically modified plants, *Nosema* fungus, Israeli Acute Paralysis Virus (IAPV) perhaps introduced from Australia in 2004, Kashmir Bee Virus [KBV], climate change, and drought.

Finally, the Shawnee Tribe's Environmental and Natural Resources Department requests that cell tower sites, whenever remotely feasible, be restored to native vegetation. In all cases, habitat restoration can protect a variety of species, even in small project areas. The large number of cell tower sites provides an as yet unrealized opportunity for region-wide habitat restoration. The Tribe urges the cell phone industry to provide a model for native habitat restoration for other industries.

Please do not hesitate to call us for additional comment.

Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, South Carolina 29730

Office 803-328-2427
Fax 803-328-5791



September 26, 2013

Attention: Seth Goad
Environmental Corp. of America
1340 Patton Avenue, Suite K
Asheville, NC 28806

Re. THPO #	TCNS #	Project Description
2013-130-68	97346	Proposed Tower Edwards 1095 Mazeppa Road, Mooresville, Iredell Co., NC

Dear Mr. Goad,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions please contact Caitlin Totherow at 803-328-2427 ext. 226, or e-mail caitlinh@ccppcrafts.com.

Sincerely,

Wenonah G. Haire
Tribal Historic Preservation Officer

APPENDIX G

Public Notice Documentation

We have not yet received the publication affidavit for the environmental notice published in the *Mooreville Tribune* newspaper on Wednesday, November 20, 2013. The affidavit will be uploaded to the FCC ASR website upon receipt.

Contact me with questions.

Seth Goad
Environmental Corporation of America
828-505-0755
seth.goad@eca-usa.com

APPENDIX H

FAA Marking/Lighting Determination



Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-0520

Aeronautical Study No.
2009-ASO-3165-OE
Prior Study No.
2008-ASO-1576-OE

Issued Date: 08/19/2009

Gary Smithwick
Gary Smithwick
5208 Wisconsin Ave., Ste. 103
Washington, DC 20016

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower Edwards
Location:	Mooresville, NC
Latitude:	35-39-05.00N NAD 83
Longitude:	80-46-01.00W
Heights:	1190 feet above ground level (AGL) 2000 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, a high-dual system - Chapters 4,9(H-Dual),&12.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

☒ At least 10 days prior to start of construction (7460-2, Part I)
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part II)

See attachment for additional condition(s) or information.

Any height exceeding 1190 feet above ground level (2000 feet above mean sea level), will result in a substantial adverse effect and would warrant a Determination of Hazard to Air Navigation.

This determination expires on 02/19/2011 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before September 18, 2009. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted in triplicate to the Manager, Airspace and Rules Division - Room 423, Federal Aviation Administration, 800 Independence Ave., Washington, D.C. 20591.

This determination becomes final on September 28, 2009 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Office of Airspace and Rules via telephone -- 202-267-8783 - or facsimile 202-267-9328.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

A copy of this determination will be forwarded to the Federal Communications Commission if the structure is subject to their licensing authority.

If we can be of further assistance, please contact Richard Biscomb, at (404) 305-7084. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2009-ASO-3165-OE.

Signature Control No: 635205-117899613

(DNH)

Kevin P. Haggerty

Manager, Obstruction Evaluation Service

Attachment(s)

Additional Information

Frequency Data

AERONAUTICAL STUDY

NO. 09-ASO-3165-OE

The proposed structure would be located approximately 6.86 nautical miles east of the Lake Norman Airpark (14A) Airport Reference Point. The structure, as proposed, will exceed the standard for determining obstructions to air navigation contained in Part 77, Subpart C, of the Federal Aviation Regulations as follows:

Exceeds 14 CFR Part 77.23 (a)(1) by 690 feet, its height more than 500 feet above ground level (AGL), at its site with respect to the 14A Airport.

Details of the structure were circularized to the aeronautical public for comment. There was one objection received during the comment period. The respondent strongly opposed the construction of this tower because "a 1190 tower which is less than three miles from the Miller Air Park runway would be a definite hazard."

The proposed structure was found to have no adverse effect on the VFR airport traffic patterns in the vicinity of the site.

The impact on arrival, departure, and en route procedures for aircraft operating under VFR/IFR conditions at existing and planned public use airports, as well as aeronautical facilities, was considered during the analysis of the structure. The aeronautical study disclosed that the structure, at a height of 2000 feet above mean sea level (AMSL), would have no adverse effect upon any terminal or en route instrument procedure or altitude.

The cumulative impact resulting from the structure, when combined with the impact of other existing or proposed structures was considered and found to be acceptable.

Therefore, it is determined that the structure will have no substantial adverse effect upon the safe and efficient utilization of the navigable airspace by aircraft or on the operation of navigational facilities and will not be a hazard to air navigation.

//////////END OF COMMENTS//////////

Frequency Data for ASN 2009-ASO-3165-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
94.1	94.1	MHz	46	kW