



Photo 25. View overlooking former mill site facing south toward Bridge No. 51



Photo 26. View of the mill's foundation facing southwest



Photo 27. View of former mill site on the north bank of Silver Creek



Photo 28. View of Blackiston Mill Road facing south from the north approach of Bridge No. 51



Photo 29. View facing northwest along Blackiston Mill Road south of Silverwood Ct



Photo 30. View facing east at Silverwood Court and Blackiston Mill Road



Photo 31. View facing northeast from Blackiston Mill Road toward Silverwood Court



Photo 32. View along Silverwood Court facing west toward Blackiston Mill Road



Photo 33. View facing northwest from Blackiston Boulevard toward Blackiston Mill Road



Photo 34. View along Blackiston Boulevard facing northeast from Blackiston Mill Road



Photo 35. View facing south from Blackiston Boulevard toward the project area



Photo 36. View facing east along Blackiston Mill Road from Blackiston Boulevard



Photo 37. View along Blackiston Mill Road facing southwest toward Charlestown Road



Photo 38. View facing east along Blackiston Mill Road from Charlestown Road

APPENDIX D: Historic Properties Long Report Management Summary and Conclusions

HISTORIC PROPERTY LONG REPORT

FLOYD COUNTY BRIDGE NO. 51 (NBI# 2200050) CARRYING
BLACKISTON MILL ROAD OVER SILVER CREEK

PROJECT DES NO: 1700788

NEW ALBANY AND JEFFERSONVILLE TOWNSHIPS, FLOYD AND
CLARK COUNTIES, INDIANA

PREPARED FOR:

Jacobi, Toombs & Lanz
1829 E. Spring Street
New Albany, IN 46216

LEAD AGENCY:

FEDERAL HIGHWAY ADMINISTRATION

Prepared by:



Complex Environment. Creative Solutions.

6958 Hillside Court
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Candace Hudziak

Candace Hudziak, M.A.
Architectural Principal Investigator
candaceh@metricenv.com

June 25, 2021

MANAGEMENT SUMMARY

This report documents the identification and evaluation efforts for properties included in the proposed Area of Potential Effects (APE) for the Floyd County Bridge No. 51 (NBI# 2200050) carrying Blackiston Mill Road over Silver Creek Project in New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana. Above-ground resources located within the proposed APE were identified and evaluated in accordance with Section 106, National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA, as amended, and CFR Part 800, federal agencies are required to take into account the impact of federal undertakings upon historic properties in the area of the undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (NRHP). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

An APE for the project has been proposed, which would extend approximately 500 feet from each project end point on Blackiston Mill Road, and approximately 500 to 600 feet from each side of Blackiston Mill Road for the purpose of this undertaking.

The proposed APE contains no NRHP-listed properties nor any above ground properties that are recommended eligible for listing in the NRHP.

As a result of identification and evaluation efforts for this project, a NRHP evaluation was conducted for former Blackiston Mill and Dam. As an above ground resource, this property has lost much of its integrity is not recommended eligible for NRHP listing under Criteria A, B, or C. Since this investigation only concerns above-ground resources only, an evaluation for NRHP listing under Criterion D is not included, but it will be discussed as part of the concurrent Phase Ia archaeological investigation.

7.0 CONCLUSIONS

The proposed APE contains no NRHP-listed properties nor any above ground properties that are recommended eligible for listing in the NRHP.

As a result of identification and evaluation efforts for this project, a NRHP evaluation was conducted for former Blackiston Mill and Dam. As an above ground resource, this property has lost much of its integrity is not recommended eligible for NRHP listing under Criteria A, B, or C. Since this investigation only concerns above-ground resources only, an evaluation for NRHP listing under Criterion D is not included, but it will be discussed as part of the concurrent Phase Ia archaeological investigation.

**APPENDIX E: Archaeology Reports Abstract and Conclusions and Recommendations;
Archaeological Workplan Field Methods**

ARCHAEOLOGICAL REPORT

PHASE IA ARCHAEOLOGICAL SURVEY FOR THE FLOYD COUNTY BRIDGE NO. 51 (NBI NO. 2200050) PROJECT (DES NO. 1700788), NEW ALBANY AND JEFFERSONVILLE TOWNSHIPS, FLOYD AND CLARK COUNTIES, INDIANA

PREPARED FOR:

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A handwritten signature in black ink, appearing to read "Karen N. Garrard".

Karen N. Garrard, PhD, RPA
kareng@metricenv.com
October 4, 2021

ABSTRACT

Under contract with Jacobi, Toombs & Lanz, Metric Environmental, LLC, has completed a Phase Ia archaeological reconnaissance for the proposed Floyd County Bridge No. 51 (NBI No. 2200050) project (Des. No. 1700788) in New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana. The project entails the replacement of the Floyd County Bridge No. 51 on Blackiston Mill Road over Silver Creek, approximately 0.3 kilometers (0.2 miles) east of Charlestown Road at the boundary of Floyd and Clark counties, Indiana. Blackiston Mill Road will also be realigned beginning just east of Blackiston Boulevard near Silverwood Court by shifting the roadway to the north on new alignment and curving to the southeast as it approaches a new bridge over Silver Creek. The project encompasses approximately 4.3 hectares (10.8 acres).

The Phase Ia archaeological survey area encompassed the entire 4.3 hectares (10.8 acres) and consisted of a combination of visual inspection and shovel probing. A total of 103 shovel test probes (STPs) were excavated and one historic archaeological site (12FI0219 / 12CI1100) recorded. The site encompasses the remains of former Blackiston Mill, constructed in 1853 as a grist and sawmill with a lime kiln and then used as a recreation hall, and an associated recreational park area initially developed during the 1880s. Use of the site as a public gathering spot continued through the 1970s, when it ceased to be maintained.

Structural remains at the 12FI0219 / 12CI1100 include mill foundation remnants, a brick lime kiln, the dam, remnants of a footbridge that once crossed over the top of the dam, the remains of an asphalt trail, and two poles from a volleyball court. Close-interval STPs around the location of the mill and STPs at 15-m (50-ft) intervals within the recreational park area did not yield historic artifacts or evidence of additional features. Despite this, potential exists for additional archaeological remains to be present, not limited to historic artifact deposits but potentially including features such as: additional foundation remnants, builders' trenches, outbuilding footers, spoil heaps from lime production, privies, and cisterns. Also, because the kiln is located outside of the survey area, no STPs were excavated in its immediate vicinity. It is possible that excavation of this feature and its surroundings could yield data about historic lime production techniques.

Blackiston Mill was one of the earliest mills along Silver Creek and contributes to southern Indiana's historic context of milling and industry. Likewise, the transition of the mill into a place for leisure and entertainment contributes to the understanding of broadsweeping changes occurring in American society during the early 20th century. The site is recommended as potentially eligible for listing in the NRHP under Criterion D for its data content, and under Criterion A for its close association with 19th century industrial history and early 20th century

societal change. The site consists of a set of related features that, collectively, retain a fair amount of integrity of setting, location, design, material, and association. Because the dam and defining features of the site's topography are intact, aspects of integrity of feeling related to its period of significance also remain.

Avoidance or a Phase Ib investigation to further evaluate the NRHP eligibility of 12FI0219 / 12CI1100 is recommended. The Phase Ib investigation should include archaeological investigations to assess the how much modern dumping and erosion from frequent flooding have impacted the site. Archaeological work should focus on assessing site integrity, the presence/absence of intact stratigraphic artifact deposits, and presence/absence of additional subsurface features.

No further archaeological work is recommended for the remainder of the survey area.

ARCHAEOLOGICAL WORKPLAN

PHASE IB INTENSIVE SURVEY AND PHASE II TESTING AT
SITE 12FL0219 / 12CL1100, FLOYD COUNTY BRIDGE NO. 51 (NBI
NO. 2200050) PROJECT, NEW ALBANY AND JEFFERSONVILLE
TOWNSHIPS, FLOYD AND CLARK COUNTIES, INDIANA
(DES NO. 1700788; DHPA NO. 26934)

PREPARED FOR:

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LEAD AGENCY:

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A handwritten signature in black ink, appearing to read "Karen N. Garrard".

Karen N. Garrard, PhD, RPA
Archaeological Principal Investigator
kareng@metricenv.com
November 10, 2021

FIELD METHODS

In consultation with INDOT/CRO, Metric is recommending a two-step approach for additional archaeology fieldwork. Upon completion of the Phase Ib work the Metric Principal Investigator will contact INDOT-Cultural Resources Office (CRO) and DHPA to provide an assessment as to whether further work appears warranted, or not. The next steps for the project will hinge on this discussion. If the results of the Phase Ib investigation indicate the site does not meet the NRHP eligibility threshold, then a not-eligible determination will be recommended, and no further work will be necessary prior to construction. If further work is recommended, with a concurrence by the agencies, then Phase II testing will commence. In the event that human remains are encountered during any phase of the project, all work will cease and archaeologists from the INDOT-CRO and DHPA will be notified.

PHASE IB INTENSIVE SURVEY

Floyd County

The Floyd County portion of the Site 12FI0219 / 12CI1100 is defined by steep slopes to the north and Floyd County Bridge No. 51 to the west (Figure 5). This portion of the site has been impacted by erosion and the dumping of construction debris and modern trash (Figures 6 and 7). As part of the Phase Ia survey, 9 shovel test probes (STPs) were excavated at 5-meter (m) (16-foot [ft]) and 70 m (22.9-ft) intervals in what appeared to be relatively intact locations (Figure 3). No evidence of historic artifact deposits or additional features were encountered.

Archaeological fieldwork within the Floyd County portion of the site will focus on the project's footprint/construction limits (Figure 8). The size of the site area within the project's footprint/construction limits is calculated at 608 m² (6,544 ft²). To avoid excavating slopes and washout areas, and to leave a reasonable buffer along the creek bank (to eliminate the potential to create soil instability), this was reduced to a testable area of approximately 326.97 m² (3,519.4 ft²).

As part of the Phase Ib survey, a total of 6.5 m² (69.9 ft²), or approximately 2%, of the testable area will be excavated as detailed below. The locations of proposed excavation are depicted in Figure 8, however, final placement will be placed on an assessment of field conditions at the time of the investigation.

- 1) Excavation Units: Four 1.0-m (3.2-ft) by 1.0-m (3.2-ft) excavation units located within the relatively flat portion of the site east of the former mill building's location. Based on the topography found at the site as well as historic imagery, this is likely where associated outbuildings and/or refuse would be found. In

addition, the use of excavation units versus additional STPs should ensure that excavation will not be inhibited by the presence of the modern construction debris at the site.

In addition, one 1.0-m (3.2-ft) by 1.0-m (3.2-ft) excavation unit will be used to further explore the in situ flat stones that were part of the Mill building's northern wall. The unit will be placed to the north of the stones, corresponding to the exterior side of the foundation and may potentially provide additional data on the building's construction. This portion of the mill's foundation is partially within the project's footprint/construction limits

- 2) Trenches: One 3.0-m (9.8-m) by 0.5-m (19.6-in) hand-excavated trench. The trench will be oriented north-south and located within the site area between where the dam meets the creek bank and the mill building. The trench will allow for a longer cross-section of the site area and stratigraphy to be exposed and potentially bisect the area where a water race may have been located.
- 3) If any cultural features are encountered during excavation that appear to extend beyond the original unit or trench dimensions, the excavation area will be expanded so that they may be fully investigated and be considered as part of the Phase II Testing.

The unit and trench excavation will be accomplished in 10-cm (3.9-in) levels within natural stratigraphic soil horizons. All sediments and soils will be screen using 0.64-cm (0.25-in) mesh hardware cloth. All artifacts recovered during the survey will be collected and retained for further analysis with the exception of architectural materials, which will be representatively sampled at the archaeologist's discretion. Upon recovery, all artifacts will be placed in plastic bags labeled with field provenience, excavator's initials, date, and other relevant information. Unit and trench excavation will continue a minimum of 10 cm (3.9 in) into sterile subsoil.

Upon completion of each unit and trench, the excavation's walls will be cleaned and investigated for evidence of microstratigraphy, bioturbation, and cultural features. At least two representative wall profiles from each unit and trench will be photographed and hand drawn. The relationship between excavation levels and soil strata discerned in wall profiles will be drawn and detailed in excavation notes. Unit level and feature forms will be filled out for each excavation level and/or feature.

All excavation units, trenches, and features will be drawn and photographed in plan and profile views, mapped in relation to the established site datum, and recorded with a Trimble Nomad 5 Handheld GPS unit capable of sub-meter accuracy. If present, features will be bisected and excavated in 10-cm (3.9-in) arbitrary levels to expose the profile, after which the remaining feature half will be excavated by stratigraphic zones (if present).

Clark County

No additional fieldwork is proposed for the Clark County portion of Site 12FI0219 / 12FI1100, which consists of a portion of the dam and former recreational park. Based upon its historical use as well as the Phase Ia survey results, it is considered to have little potential to provide additional significant data and unlikely to contain cultural features and/or substantial historic artifact deposits.

Development of the area as a park and public gathering spot began as early as the 1880s. Vegetation was cleared and picnic tables installed, and, during the 1930s, there were vacation cabins for rent (the number, characteristics, and precise location of the cabins is not known, however). The park was used up until the 1970s, and the remains of an asphalt trail and volleyball court remain. As part of the Phase Ia survey, 78 STPs were excavated at 15-m (50-ft) intervals within and around the former recreational park. The majority of the STPs contained an intact, two-layer soil stratigraphy, however no historic artifacts or historic cultural features were encountered; only sparse amounts of modern debris was noted. Flooding and erosion/outwash have heavily impacted the area immediately surrounding the dam and creek bank.

PHASE II TESTING

Floyd County

If Phase II testing is warranted, an additional 26 m² will be excavated within the Floyd County portion of Site 12FI0219 / 12CI1100. As a result, approximately 10% of the 326.97-m² (3,519.4-ft²) testable area within the project's footprint/construction limits would be examined.

The Phase II fieldwork will consist of larger excavated areas, with configurations and dimensions dependent on what was found during the Phase Ib investigation (i.e., focused on areas with artifacts concentrations and/or that have a potential for additional features) and provide additional data on site organization and site layout in particular. As noted, opening up larger areas of the site is considered to be more beneficial because of the modern debris that has been dumped there.

A total of four 2.0-m (6.5-ft) by 2.0-m (6.5-ft) excavation units and one 2.0-m (6.5-ft) by 3.0-m (9.8-ft) excavation unit will be conducted. These units would be excavated using a combination of hand and mechanical methods. In particular, if the Phase Ib results indicate a layer of modern fill exists in portions of the site, a mini-excavator with rubber tracks will be used to strip off the top layers. Likewise, with a greater understanding of soil stratigraphy as a result of the Phase Ib survey, and it may be beneficial to strip off the topsoil horizon to expose any cultural features in the underlying subsoils. When the excavator reaches the appropriate depth and/or soil horizon, or a soil discoloration or other subsurface feature is encountered, the soil horizon/feature will be delineated using flat shovels and trowels. Once fully delineated excavation will continue by hand using trowels and shovels using the same methods and recordation processes as detailed for the Phase Ib survey. Excavation will continue to a minimum of 10 cm (3.9 in) into sterile subsoil.

Clark County

No Phase II testing is proposed for the site's Clark County portion.

MANAGEMENT SUMMARY

PHASE IB INTENSIVE SURVEY AT SITE 12FL0219 / 12CL1100,
FLOYD COUNTY BRIDGE NO. 51 (NBI NO. 2200050) PROJECT,
NEW ALBANY AND JEFFERSONVILLE TOWNSHIPS,
FLOYD AND CLARK COUNTIES, INDIANA
(DES NO. 1700788; DHPA NO. 26934)

PREPARED FOR:

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Karen N. Garrard, PhD, RPA
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January 4, 2021

CONCLUSIONS AND RECOMMENDATIONS

Metric Environmental, LLC, has completed the Phase Ib survey at Site 12FI0219 / 12CI1100 as part of the Floyd County Bridge No. 51 (NBI No. 2200050) project (Des. No. 1700788) in New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana. The survey focused on the Floyd County portion of the site within the project's current footprint/construction area. The fieldwork entailed excavation of 6.5 m² (69.9 ft²), or approximately 2 percent, of the site's 608 m² (6,544 ft²) testable area. No evidence indicating the presence of cultural features was found, and all cultural materials encountered either dated to the modern era and/or were of dubious provenience with limited informational value.

Based on the preliminary Phase Ib results, further investigations within the project's current footprint/construction area in Floyd County are unlikely to provide additional meaningful knowledge concerning Site 12FI0219 / 12CI1100 or the history of the area. Likewise, the Clark County portion of the site is considered to have little potential to provide additional significant data and unlikely to contain cultural features and/or substantial historic artifact deposits (Garrard 2021). Metric recommends clearance for the project's current footprint/construction area within both Floyd and Clark counties.

Site 12FI0219 / 12CI1100 remains potentially eligible for the NRHP. If project design plans change and the current footprint/construction area is extended into additional portions of the site, further archaeological work would be needed to evaluate its eligibility for listing in the NRHP under Criteria A and D.

APPENDIX F: Consulting Parties' Correspondence

**Note: the topographic maps, project limits maps, and project plan sheets can be found in Appendix B of this document*



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (317) 296-0799

Eric Holcomb, Governor
Joe McGuinness, Commissioner

January 21, 2021

This letter was sent to the listed parties.

RE: Floyd County Bridge No. 51 Project (NBI No. 2200050)
Blackiston Mill Road over Silver Creek
New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana
Des. No. 1700788

Dear Consulting Party (see attached list),

Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), proposes to proceed with the Floyd County Bridge No. 51 Project (Des. No. 1700788). Metric Environmental, LLC is under contract with Jacobi, Toombs & Lanz, on behalf of Floyd County, to advance the environmental documentation for the referenced project.

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

The proposed undertaking is located in both Floyd and Clark counties, within the corporation limits of the City of New Albany and the Town of Clarksville. The project is on Blackiston Mill Road over Silver Creek, approximately 0.20 mi. east of Charlestown Road. The existing structure has a precast concrete I-beam superstructure constructed in 1966 with a masonry substructure built in 1888. It is 176 ft. long with two spans. The original bridge at this location was an iron bridge built in 1888 that collapsed under the weight of concrete mixer truck in 1963 during bridge repairs. The current bridge reused the original bridge's masonry piers and abutments substructure, and it was reopened to traffic in December 1966. The bridge was not included in the Indiana Historic Bridges Inventory, which evaluated bridges built before 1965. A typical cross section of Blackiston Mill Road consists of two 10-ft. wide through-lanes adjoined by 1-ft. wide concrete curbs provided in each direction. Guardrails are present; however, no sidewalks

are provided in either direction. It is within New Albany and Jeffersonville townships, on the New Albany, Indiana, USGS Topographic Quadrangle Map, in Township 99, Range 99, Section 63.

The purpose of this project is to improve the bridge facility's deficiencies and roadway geometrics to maintain connectivity over Silver Creek and reduce flooding on Blackiston Mill Road. This need is supported by data from the most recent Bridge Inspection Report, dated March 20, 2019, which rated the current bridge structure 4 out of 9 possible points, indicating poor condition. Issues noted in the report include hairline cracks and efflorescence on the bridge deck, cracks on the wearing surface, and open joints visible on the superstructure due to erosion. Blackiston Mill Road on the southeast approach to the bridge is lower in elevation than the existing bridge, causing frequent flooding due to backwater from the Ohio River. When this happens Blackiston Mill Road is closed to traffic. On the roadway's western approach to the bridge there is a steep vertical profile grade and a substandard horizontal curve.

The undertaking proposes to realign Blackiston Mill Road and to construct a new bridge across Silver Creek. The preliminary preferred alternative is to realign Blackiston Mill Road beginning just east of Blackiston Boulevard near Silverwood Court by shifting the roadway to the north on new alignment and curving to the southeast as it approaches a new bridge over Silver Creek. The new bridge would be located upstream of the existing dam on Silver Creek, and it would be a 215-foot long, three-span concrete bridge. The bridge would have two 12-foot-wide lanes with curbs, gutters, and 6-foot sidewalks on both sides. East of the new bridge the new alignment would continue to curve to the southeast until Walnut Grove Drive, at which point Blackiston Mill Road would return to its existing alignment. The roadway east of the bridge would be raised from its current elevation of 438 ft. to 442 ft. above sea level to meet the 25-year flood elevation.

The lane widths on Blackiston Mill Road would be reduced from 12 ft. to 11 ft. to provide a 6-foot sidewalk adjacent to the back of the curb and gutter on each side of the road. Existing curb and gutter would also be replaced. Silverwood Court would be realigned to improve sight distance at the intersection with the realigned Blackiston Mill Road. The drives on the south side of the road east of the bridge would be lengthened to the south due to the proposed new roadway being raised to prevent flooding.

The proposed project is anticipated to require the acquisition of approximately 4.5 acres of new permanent right-of-way for the roadway and bridge, and an additional 4 acres of permanent right-of-way for compensatory excavation. It will also require 2.3 acres of temporary right-of-

way for drive construction, road and bridge removal, and lawn grading. Relocation for one residence would be required and two commercial buildings would need to be acquired.

Traffic will remain on Blackiston Mill Road and continue using the existing bridge as the proposed bridge and road approaches are being constructed. To connect the beginning and end of the project to the existing roadway, traffic will be required to use a detour route that is marked with appropriate construction signs. The closure is estimated to last about forty-five days.

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. In accordance with 36 CFR 800.2 (c), you are hereby requested to be a consulting party to participate in the Section 106 process. Entities that have been invited to participate in the Section 106 consultation process for this project are identified in the attached list. Per 36 CFR 800.3(f), we hereby request that the Indiana State Historic Preservation Officer (SHPO) notify this office if the SHPO staff is aware of any other parties that may be entitled to be consulting parties or should be contacted as potential consulting parties for the project.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. At this time, no cultural resource investigations have occurred; however, the results of cultural resource identification and evaluation efforts, both above-ground and archaeological, will be forthcoming. Consulting parties will receive notification when these reports are completed.

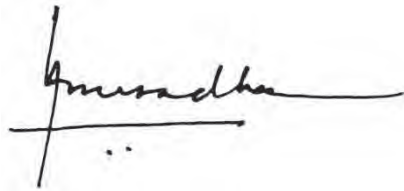
Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party, or if you do not respond, you will not be included on the list of consulting parties for this project. If we do not receive your response in the time allotted, the project will proceed consistent with the proposed design and you will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Candy Hudziak of Metric Environmental, LLC. at 317.443.4123 or candaceh@metricenv.com. All future responses regarding the proposed project should be forwarded to Metric Environmental, LLC at the following address:

Candy Hudziak
Architectural Historian
Metric Environmental, LLC.
6971 Hillside Court
Indianapolis, Indiana 46250
candaceh@metricenv.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-416-0876 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Enclosures:

Consulting Parties List

Project Location Maps

*Note: To avoid repetition, these maps are not included here but are located in Appendix A of this document

	Name	Organization	Address 1	City	State	Zip	Email
1	Beth McCord	State Historic Preservation Office	402 W Washington Street, W299	Indianapolis	IN	46204	BMccord@dnr.IN.gov
2	Laura Renwick, Community Preservation Specialist	Indiana Landmarks Southern Regional Office	911 State Street	New Albany	IN	47150	lrenwick@indianalandmarks.org
3	Horacio Urieta, P.E.	Floyd County Engineer	311 Hauss Sq, Rm 122	New Albany	IN	47150	hurieta@floydcounty.in.gov
4	David Barksdale	Floyd Co Historian	614 Terrace Ct	New Albany	IN	47150	dddcbark@aol.com
5	Teresa Perkins	Jeff-Clark Preservation, Inc.	PO Box 752	Jeffersonville	IN	47130	Teresaperkins323@sbcglobal.net
6	Jeanne Burke	Clark Co Historian	5807 Stacy Rd	Charlestown	IN	47111	Jeannemburke5807@gmail.com
7		Floyd County Historical Society	PO Box 455	New Albany	IN	47151	fchs@countyhistory.com
8	Jarrett Haley	Kentuckiana Regional Planning and Development Agency	11520 Commonwealth Dr	Louisville	KY	40299	Jarrett.haley@kipda.org
9	Teresa Baxter	Develop New Albany, Inc.	222 Pearl St, Suite 109	New Albany	IN	47150	developnainfo@gmail.com
10	Scott Wood, Dir of Planning	New Albany Historic Preservation Commission	311 Hauss Sq, Rm 329	New Albany	IN	47150	swood@cityofnewalbany.com
11	Tim Kramer	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
12	Shawn Carruthers, President	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
13	John Schellenberger	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
14	Jack Coffman, President	Clark County Commissioner	501 E Court Ave, #404	Jeffersonville	IN	47130	jcoffman@co.clark.in.us
15	Ryan Ramsey	Town President, Town of Clarksville	2000 Broadway St	Clarksville	IN	47129	rramsey@townofclarksville.com
16	Jeff Gahan	Mayor, City of New Albany	311 Hauss Sq, Suite 316	New Albany	IN	47150	mayor@cityofnewalbany.com
17	Wendy Dant Chesser	One Southern Indiana Chamber of Commerce	4100 Charlestown Rd	New Albany	IN	47150	wendy@1si.org
18	Jane Sarles	Clarksville Historical Society	PO Box 2303	Clarksville	IN	47129	info@clarksvillehistoricalsociety.com
19		Eastern Shawnee Tribe of Oklahoma					
20		Miami Tribe of Oklahoma					

21		Peoria Tribe of Indians of Oklahoma					
22		Pokagon Band of Potawatomi Indians					
23		Shawnee Tribe					
24		United Keetoowah Band of Cherokee Indians					
25		Delaware Tribe of Indians, Oklahoma					
26		Delaware Tribe of Indians					

From: [Kennedy, Mary](#)
To: thpo@estoo.net; [Diane Hunter](#); lpappenfort@peoriatribe.com; Matthew.Bussler@pokagonband-nsn.gov; tonya@shawnee-tribe.com; [Erica Gorsuch](#); lheady@delawaretribe.org
Cc: [Miller, Shaun \(INDOT\)](#); [Candace Hudziak](#); [Carmany-George, Karstin \(FHWA\)](#)
Subject: FHWA Project: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana (Des. No. 1700788)
Date: Thursday, January 21, 2021 2:27:33 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image010.png](#)
[Bridge51_Des1700788_ECL_2021-01-21.pdf](#)

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Des. No.: 1700788

Project Description: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project

Location: New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

The Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), proposes to proceed with the Floyd County Bridge No. 51/NBI No. 2200050 over Silver Creek and the Blackiston Mill Road Project (Des. No. 1700788).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

Name	Organization	Address 1	City	State	Zip	Email
Beth McCord	State Historic Preservation Office	402 W Washington Street, W299	Indianapolis	IN	46204	BMccord@dnr.IN.gov
Laura Renwick, Community Preservation Specialist	Indiana Landmarks Southern Regional Office	911 State Street	New Albany	IN	47150	lrenwick@indianalandmarks.org
Horacio Urieta, P.E.	Floyd County Engineer	311 Hauss Sq, Rm 122	New Albany	IN	47150	hurieta@floydcounty.in.gov
David Barksdale	Floyd Co Historian	614 Terrace Ct	New Albany	IN	47150	dddcbark@aol.com
Teresa Perkins	Jeff-Clark Preservation, Inc.	PO Box 752	Jeffersonville	IN	47130	Teresaperkins323@sbcglobal.net
Jeanne Burke	Clark Co Historian	5807 Stacy Rd	Charlestown	IN	47111	Jeannemburke5807@gmail.com
	Floyd County Historical Society	PO Box 455	New Albany	IN	47151	fchs@countyhistory.com
Jarrett Haley	Kentuckiana Regional Planning and Development Agency	11520 Commonwealth Dr	Louisville	KY	40299	Jarrett.haley@kipda.org
Teresa Baxter	Develop New Albany, Inc.	222 Pearl St, Suite 109	New Albany	IN	47150	developnainfo@gmail.com
Scott Wood, Dir of	New Albany Historic	311 Hauss Sq,	New Albany	IN	47150	swood@cityofnewalbany.com

Planning	Preservation Commission	Rm 329				
Tim Kramer	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
Shawn Carruthers, President	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
John Schellenberger	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
Jack Coffman, President	Clark County Commissioner	501 E Court Ave, #404	Jeffersonville	IN	47130	jcoffman@co.clark.in.us
Ryan Ramsey	Town President, Town of Clarksville	2000 Broadway St	Clarksville	IN	47129	ramsey@townofclarksville.com
Jeff Gahan	Mayor, City of New Albany	311 Hauss Sq, Suite 316	New Albany	IN	47150	mayor@cityofnewalbany.com
Wendy Dant Chesser	One Southern Indiana Chamber of Commerce	4100 Charlestown Rd	New Albany	IN	47150	wendy@1si.org
Jane Sarles	Clarksville Historical Society	PO Box 2303	Clarksville	IN	47129	info@clarkvillehistoricalsociety.com
	Eastern Shawnee Tribe of Oklahoma					
	Miami Tribe of Oklahoma					
	Peoria Tribe of Indians of Oklahoma					
	Pokagon Band of Potawatomi Indians					
	Shawnee Tribe					
	United Keetoowah Band of Cherokee Indians					
	Delaware Tribe of Indians, Oklahoma					
	Delaware Tribe of Indians					

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached early coordination letter, which is also located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request as soon as you can.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any

comments or concerns at their earliest convenience. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-416-0876 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629

Thank you in advance for your input,

Mary E. Kennedy

Historic Bridge Specialist

100 N. Senate Ave., Room N758-ES

Indianapolis, IN 46204

Email: mkennedy@indot.in.gov

Cell: 317-694-3607*

*Please note new phone number!



*For the latest updates from INDOT's Cultural Resources Office, subscribe to the Environmental Services listserv:

<https://www.in.gov/indot/3217.htm>

From: [Candace Hudziak](#)
To: [Branigin, Susan](#); [Kennedy, Mary](#); [McCord, Beth K](#); [Irenwick@indianalandmarks.org](#); [hurieta@floydcounty.in.gov](#); [dddcbark@aol.com](#); [teresaperkins323@sbcglobal.net](#); [jeannemburke5807@gmail.com](#); [fchs@countyhistory.com](#); [jarrett_haley@kipda.org](#); [developnainfo@gmail.com](#); [swood@cityofnewalbany.com](#); [FCCommissioners@floydcounty.in.gov](#); [jcoffman@co.clark.in.us](#); [ramsey@townofclarksville.com](#); [mayor@cityofnewalbany.com](#); [wendy@1si.org](#); [info@clarksvillehistoricalsociety.com](#)
Cc: [Kumar, Anuradha](#); [Miller, Shaun \(INDOT\)](#); [Luella Beth Hillen](#); [Karen Garrard](#); [Sam Snell](#); [Thomas Schellenberg](#)
Subject: FHWA Project: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana (Des. No. 1700788)
Date: Thursday, January 21, 2021 1:28:00 PM
Attachments: [Bridge51_Des1700788_ECL_2021-01-21.pdf](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Des. No.: 1700788

Project Description: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project

Location: New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

The Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), proposes to proceed with the Floyd County Bridge No. 51/NBI No. 2200050 over Silver Creek and the Blackiston Mill Road Project (Des. No. 1700788).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

<i>Name</i>	<i>Organization</i>	<i>Address 1</i>	<i>City</i>	<i>State</i>	<i>Zip</i>	<i>Email</i>
Beth McCord	State Historic Preservation Office	402 W Washington Street, W299	Indianapolis	IN	46204	BMccord@dnr.IN.gov
Laura Renwick, Community Preservation Specialist	Indiana Landmarks Southern Regional Office	911 State Street	New Albany	IN	47150	Irenwick@indianalandmarks.org
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David Barksdale	Floyd Co Historian	614 Terrace Ct	New Albany	IN	47150	dddcbark@aol.com
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Jeanne Burke	Clark Co Historian	5807 Stacy Rd	Charlestown	IN	47111	Jeannemburke5807@gmail.com
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Shawn Carruthers, President	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
John Schellenberger	Floyd County Commissioner	Pine View Govt Center, 2524 Corydon Pike, Suite 204	New Albany	IN	47150	FCCCommissioners@floydcounty.in.gov
Jack Coffman, President	Clark County Commissioner	501 E Court Ave, #404	Jeffersonville	IN	47130	jcoffman@co.clark.in.us
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Jeff Gahan	Mayor, City of New Albany	311 Hauss Sq, Suite 316	New Albany	IN	47150	mayor@cityofnewalbany.com
Wendy Dant Chesser	One Southern Indiana Chamber of Commerce	4100 Charlestown Rd	New Albany	IN	47150	wendy@1si.org
Jane Sarles	Clarksville Historical Society	PO Box 2303	Clarksville	IN	47129	info@clarksvillehistoricalsociety.com
	Eastern Shawnee Tribe of Oklahoma					
	Miami Tribe of Oklahoma					
	Peoria Tribe of Indians of Oklahoma					
	Pokagon Band of Potawatomi Indians					
	Shawnee Tribe					
	United Keetoowah Band of Cherokee Indians					
	Delaware Tribe of Indians,					

	Oklahoma					
	Delaware Tribe of Indians					

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Thank you in advance for your input,

Candace Hudziak
Senior Project Manager/Architectural
Historian



Phone: 317.643.1633 Email: candaceh@metricenv.com
6971 Hillside Court, Indianapolis, IN 46250



www.metricenv.com

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From: [Laura Renwick](#)
To: [Candace Hudziak](#)
Subject: RE: FHWA Project: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana (Des. No. 1700788)
Date: Thursday, January 28, 2021 11:12:05 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Hi Candy -

Hope all is well with you and yours!

I wanted to suggest one other group that you may want to invite to be a consulting party on this project:

River Heritage Conservancy

129 E. Court Ave.,

Jeffersonville, IN 47130

812.463.3553 (Office)

Scott Martin, Executive Director <smartin@riverheritageconservancy.org>

They are currently in the process of planning and fundraising for a park along the Ohio River, including developing recreational opportunities along Silver Creek around this location, so I think they would be very interested in the project.

Thanks,

Laura

.....
Laura Renwick
Community Preservation Specialist

.....
Indiana Landmarks
Southern Regional Office
911 State Street
New Albany, IN 47150
Ph. 812-284-4534, 800-450-4534
Fax: 812-285-9923
www.indianalandmarks.org

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Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov · www.IN.gov/dnr/historic



February 1, 2021

Candy Hudziak
Metric Environmental, LLC
6971 Hillsdale Court
Indianapolis, Indiana 46250

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Early coordination letter for the Floyd County Bridge No. 51 carrying Blackiston Mill Road over Silver
Creek project in Clark and Floyd counties, Indiana (Des. No. 1700788; DHPA No. 26934)

Dear Ms. Hudziak:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your January 21, 2021 review request submittal form which enclosed INDOT’s early coordination letter, received by our office the same day for the aforementioned project.

We are not aware of any parties who should be invited to participate in the Section 106 consultation on this federal undertaking, beyond those whom INDOT already has invited. However, if right-of-way is likely to be taken from a potentially historic property, it might be advisable to invite the owner of that property as soon as possible. In your next regular correspondence on this project, please advise us as to which of the invited consulting parties has accepted the invitation.

We look forward to reviewing the proposed area of potential effects and the reports on investigations of above-ground cultural resources and archaeological resources that the early coordination letter indicated will be forthcoming.

The Indiana SHPO staff’s archaeological reviewer for this project is Rachel Sharkey, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project. In all future correspondence about the Floyd County Bridge No. 51 project in Clark and Floyd counties, (Des. No. 1700788), please refer to DHPA No. 26934.

Very truly yours,

A handwritten signature in black ink that reads "Beth K. McCord".

Beth K. McCord
Deputy State Historic Preservation Officer

BKM:DMK:dmk

emc: Anuradha Kumar, INDOT
Shaun Miller, INDOT
Susan Branigin, INDOT
Mary Kennedy, INDOT
Candy Hudziak, Metric Environmental, LLC
Rachel Sharkey, DNR-DHPA
Danielle Kauffmann, DNR-DHPA



Miami Tribe of Oklahoma

3410 P St. NW, Miami, OK 74354 • P.O. Box 1326, Miami, OK 74355
Ph: (918) 541-1300 • Fax: (918) 542-7260
www.miamination.com



Via email: smiller@indot.in.gov

February 17, 2021

Shaun Miller
Archaeological Team Lead, Cultural Resources Office
Indiana DOT
575 North Pennsylvania Street
Indianapolis, IN 46204

Re: Des. No. 1700788; Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana – Comments of the Miami Tribe of Oklahoma

Dear Mr. Miller:

Aya, kikwehsitoole – I show you respect. The Miami Tribe of Oklahoma, a federally recognized Indian tribe with a Constitution ratified in 1939 under the Oklahoma Indian Welfare Act of 1936, respectfully submits the following comments regarding Des. No. 1700788.

The Miami Tribe offers no objection to the above-referenced project at this time, as we are not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, given the Miami Tribe's deep and enduring relationship to its historic lands and cultural property within present-day Indiana, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. In such a case, please contact me at 918-541-8966 or by email at dhunter@miamination.com to initiate consultation.

The Miami Tribe accepts the invitation to serve as a consulting party to the proposed project. In my capacity as Tribal Historic Preservation Officer, I am the point of contact for consultation.

Respectfully,

Diane Hunter
Tribal Historic Preservation Officer



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (317) 296-0799

Eric Holcomb, Governor
Joe McGuinness, Commissioner

June 25, 2021

This letter was sent to the listed parties.

RE: Floyd County Bridge No. 51 Project (NBI No. 2200050)
Blackiston Mill Road over Silver Creek
New Albany and Jeffersonville Townships, Floyd and Clark counties, Indiana
Des. No. 1700788/DHPA No. 26934

Dear Consulting Party (see attached list),

The Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), propose to proceed with the Floyd County Bridge No. 51 Project (Des. No. 1700788). Metric Environmental, LLC, is under contract with Jacobi, Toombs & Lanz, on behalf of Floyd County, to advance the environmental documentation for the referenced project.

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on January 21, 2021. On January 28, 2021, Laura Renwick of Indiana Landmarks replied that their organization would like to participate as a consulting party. Ms. Renwick also suggested that the River Heritage Conservancy be invited to be a consulting party. Subsequently, the River Heritage Conservancy was added to the attached consulting party list. In a letter dated February 17, 2021, the Miami Tribe of Oklahoma accepted the invitation to serve as a consulting party and requested they be notified if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act or archaeological evidence is discovered during any phase of this project.

The proposed undertaking is located in both Floyd and Clark counties, within the corporation limits of the City of New Albany and the Town of Clarksville. The project is on Blackiston Mill Road over Silver Creek, approximately 0.20 miles (mi) east of Charlestown Road. The existing structure has a precast concrete I-beam superstructure constructed in 1966 with a masonry substructure built in 1888. It is 176 feet (ft) long with two spans. The original bridge at this location was an iron bridge built in 1888 that collapsed under the weight of concrete mixer truck in 1963 during bridge repairs. The current bridge reused the original bridge's masonry piers and abutments substructure, and it was reopened to traffic in December 1966. The bridge was not included in the Indiana Historic Bridges Inventory, which evaluated bridges built before 1965. A typical cross section of Blackiston Mill Road consists of two 10-ft wide through-lanes adjoined by 1-ft wide concrete curbs provided in each direction. Guardrails are present; however, no sidewalks are provided in either direction. It is within New

Albany and Jeffersonville townships, on the New Albany, Indiana, USGS Topographic Quadrangle Map, in Township 99, Range 99, Section 63.

The purpose of this project is to improve the bridge facility's deficiencies and roadway geometrics to maintain connectivity over Silver Creek and reduce flooding on Blackiston Mill Road. This need is supported by data from the most recent Bridge Inspection Report, dated March 20, 2019, which rated the current bridge structure 4 out of 9 possible points, indicating poor condition. Issues noted in the report include hairline cracks and efflorescence on the bridge deck, cracks on the wearing surface, and open joints visible on the superstructure due to erosion. Blackiston Mill Road on the southeast approach to the bridge is lower in elevation than the existing bridge, causing frequent flooding due to backwater from the Ohio River. When this happens Blackiston Mill Road is closed to traffic. On the roadway's western approach to the bridge there is a steep vertical profile grade and a substandard horizontal curve.

The undertaking proposes to realign Blackiston Mill Road and to construct a new bridge across Silver Creek. Blackiston Mill Road will be realigned beginning just east of Blackiston Boulevard near Silverwood Court by shifting the roadway to the north on new alignment and curving to the southeast as it approaches a new bridge over Silver Creek. The new bridge will be a 65-m (215-ft)-long, three-span concrete bridge located just upstream of the existing Blackiston Mill Dam (Indiana Department of Natural Resources [IDNR] No. 10-4) on Silver Creek. The dam is located approximately 20 m (65 ft) upstream from existing bridge but is not a project component. The new bridge will have two 3.6-m (12-ft)-wide lanes with curbs, gutters, and 1.8-m (6-ft) sidewalks on both sides. East of the new bridge, the new alignment will continue to curve to the southeast until Walnut Grove Drive, at which point Blackiston Mill Road will return to its existing alignment. The roadway east of the bridge will be raised from its current elevation of 133 m (438 ft) to 134 m (442 ft) above sea level to meet the 25-year flood elevation. The lane widths on Blackiston Mill Road would be reduced from 12 ft to 11 ft to provide a 6-ft sidewalk adjacent to the back of the curb and gutter on each side of the road. Existing curb and gutter would also be replaced. Silverwood Court would be realigned to improve sight distance at the intersection with the realigned Blackiston Mill Road. The drives on the south side of the road east of the bridge would be lengthened to the south due to the proposed new roadway being raised to prevent flooding.

The proposed project is anticipated to require the acquisition of approximately 4.5 acres (ac) of new permanent right-of-way (ROW) for the roadway and bridge, and an additional 4.0 ac of permanent ROW for compensatory excavation. It will also require 0.9 h (2.3 ac) of temporary ROW for drive construction, road and bridge removal, and lawn grading. Approximately 0.8 ha (2.0 ac) of existing trees will be removed and one residential parcel acquired; the three buildings located on the parcel will be demolished.

Traffic will remain on Blackiston Mill Road and continue using the existing bridge as the proposed bridge and road approaches are being constructed. To connect the beginning and end of the project to the existing roadway, traffic will be required to use a detour route that is marked with appropriate construction signs. The closure is estimated to last about 45 days.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status—as well as additional entities that are currently being invited to become consulting parties—are identified in the attached list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess its effects, and seek ways to avoid, minimize, or mitigate any adverse effects on historic properties. For more information

regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf> .

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, no above-ground resources are recommended as eligible for listing in the NRHP.

With regard to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified one historic archaeological site within the project area. As a result of these efforts, Site 12FI0219 was recommended as eligible for listing in the NRHP, and either avoidance or a Phase Ib investigation is recommended.

The Historic Property Report and Archaeology Report (Tribes only) are available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review this document and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request as soon as you can.

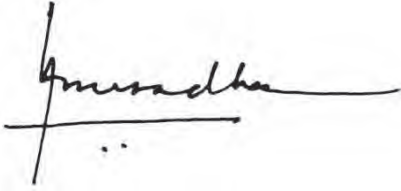
Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party, or if you do not respond, you will not be included on the list of consulting parties for this project. If we do not receive your response in the time allotted, the project will proceed consistent with the proposed design and you will not receive further information about the project unless the design changes. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience.

For questions concerning specific project details, you may contact Candy Hudziak of Metric Environmental, LLC, at 317.443.4123 or candaceh@metricenv.com. All future responses regarding the proposed project should be forwarded to Metric Environmental, LLC at the following address:

Candy Hudziak
Architectural Historian
Metric Environmental, LLC.
6971 Hillside Court
Indianapolis, Indiana 46250
candaceh@metricenv.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-416-0876 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Distribution List (in addition to IN SHPO):

Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Shawnee Tribe
United Keetoowah Band of Cherokee Indians
Delaware Tribe of Indians

Indiana Landmarks
Southern Regional Office
Laura Renwick, Community Preservation
Specialist 911 State Street
New Albany, IN 47150

River Heritage Conservancy
Scott Martin, Executive Director
129 E. Court Avenue
Jeffersonville, IN 47130

From: [Miller, Shaun \(INDOT\)](#)
To: thpo@estoo.net; [Diane Hunter](#); lpappenfort@peoriatribe.com; Matthew.Bussler@pokagonband-nsn.gov; tonya@shawnee-tribe.com; [Erica Gorsuch](#); lheady@delawaretribe.org
Cc: [Kennedy, Mary](#); [Karen Garrard](#); [Candace Hudziak](#); [Carmany-George, Karstin \(FHWA\)](#); [Coon, Matthew](#)
Subject: FW: FHWA Project: Des. No. 1700788; HPR & Archaeology Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana
Date: Friday, June 25, 2021 12:11:22 PM

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Location: New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

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As part of Section 106 of the National Historic Preservation Act, a Historic Property Report (HPR) and Archaeological Report have been prepared and are ready for review and comment by consulting parties.

Please review the HPR and Archaeological Report (Tribes only) located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE) and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request as soon as you can.

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Thank you in advance for your input,

Shaun Miller
INDOT, Cultural Resources Office
Archaeology Team Lead
(317)416-0876

From: [Karen Garrard](#)
To: [McCord, Beth K](#); Irenwick@indianalandmarks.org; smartin@riverheritageconservancy.org
Cc: [Luella Beth Hillen](#); [Candace Hudziak](#); [Thomas Schellenberg](#); [Kumar, Anuradha](#); [Miller, Shaun \(INDOT\)](#); [Summers, Terry](#); [Branigin, Susan](#); [Coon, Matthew](#); [Kennedy, Mary](#)
Subject: FHWA Project: Des. No. 1700788; HPR & Archaeology Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana
Date: Friday, June 25, 2021 12:08:00 PM
Attachments: [image001.png](#)

Des. No.: 1700788

Project Description: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project

Location: New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

The Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), propose to proceed with the Floyd County Bridge No. 51/NBI No. 2200050 over Silver Creek and the Blackiston Mill Road Project (Des. No. 1700788). The Section 106 Early Coordination Letter for this project was originally distributed on January 21, 2021.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Report (HPR) and Archaeological Report have been prepared and are ready for review and comment by consulting parties.

Please review the HPR and Archaeological Report (Tribes only) located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE) and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request as soon as you can.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience.

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-416-0876 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629.

Thank you in advance for your input,



Karen N. Garrard, PhD, RPA

Senior Project Manager / Archaeological Principal Investigator

O 513.399.8482

M 513.687.5831

810 Plum Street
Cincinnati, OH 45202
www.metricenv.com



July 26, 2021

Candy Hudziak
Architectural Historian
Metric Environmental, LLC
6971 Hillside Court
Indianapolis, Indiana 46250

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Historic property report (Hudziak, 6/25/2021) and Phase Ia archaeological report (Garrard & Hudziak, 6/25/2021) for the Floyd County Bridge No. 51 carrying Blackiston Mill Road over Silver Creek, Clark and Floyd counties, Indiana (Des. No. 1700788; DHPA No. 26934)

Dear Ms. Hudziak:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your June 25, 2021, review request submittal form, which enclosed the aforementioned reports, received by our office the same day for this project in Jeffersonville Township of Clark County and New Albany Township of Floyd County.

The area of potential effects (“APE”) proposed in the historic property report (“HPR”; Hudziak, 6/25/2021) appears to be of adequate size to encompass the geographic area in which direct and indirect effects of a project of this nature could occur.

For the purposes of the Section 106 review of this federal undertaking, we agree that there are no above-ground resources listed or eligible for inclusion in the National Register of Historic Places (“NRHP”) within the project’s APE. We agree that the Blackiston Mill and Dam as an above-ground resource has lost much of its integrity warranting eligibility for the NRHP under Criterion A, B, or C.

In terms of archaeological resources, thank you for the submission of the archaeological reconnaissance report (Garrard & Hudziak, 6/25/2021). A review of the report indicates one archaeological resource (12-FI-0219) was newly recorded as a result of the reconnaissance. As currently presented, 12-FI-0219 includes the remnants of Blackiston Mill, “Fourth Dam”, a lime kiln, and a portion of a recreational park. We concur that 12-FI-0219 is potentially eligible for inclusion in the NRHP.

Please see below for further discussion on the archaeological resources documented during this project.

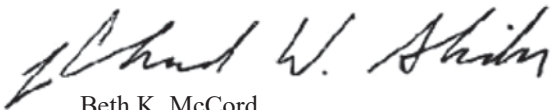
- We note that the site boundary crosses the county line between Floyd and Clark County. The northern portion of the site, within Floyd County, includes the mill, lime kiln, and a portion of the dam. The southern portion, within Clark County, includes the other portion of the dam and the recreational park. Given the two periods of significance (the industrial mill activities and later recreational activities) we agree that the site should be kept as a single archaeological site, but it should be assigned a Clark County site number in addition to the Floyd County number.

- Therefore, we will need a revised archaeological report noting the additional archaeological site number. The archaeological site form will need to be entered into the SHAARD database twice – once for Floyd County, once for Clark County.
- We concur with the recommendation that the site either needs to be avoided (particularly those areas of the site including the mill and lime kiln remnants) or subjected to Phase Ib reconnaissance. We feel that Phase Ib reconnaissance would be especially beneficial within the immediate project corridor/footprint.
- It is our understanding from the submission that there are currently no plans to impact the low head dam. Additionally, we understand the lime kiln is currently outside of the proposed project boundary and will not be impacted by project activities.

The Indiana SHPO staff's archaeological reviewer for this project is Rachel Sharkey, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the Floyd County Bridge No. 51 in Clark and Floyd counties (Des. No. 1700788), please continue to refer to DHPA No. 26934.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:DMK:RAS:ras

emc: Erica Tait, FHWA
Anuradha Kumar, INDOT
Shaun Miller, INDOT
Susan Branigin, INDOT
Mary Kennedy, INDOT
Candy Hudziak, Metric Environmental, LLC
Karen Garrard, Metric Environmental, LLC
Indiana Landmarks, Southern Regional Office
River Heritage Conservancy
Danielle Kauffmann, DNR-DHPA
Rachel Sharkey, DNR-DHPA



**EASTERN SHAWNEE
CULTURAL PRESERVATION DEPARTMENT**

70500 East 128 Road, Wyandotte, OK 74370

August 17, 2021

INDOT - Indiana Department of Transportation
100 N. Senate Ave. IGCN642
Indianapolis, IN 46201

RE: DES. NO. 1700788, multiple County, Indiana

Dear Mr. Miller,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within multiple County, Indiana. The Eastern Shawnee Tribe is committed to protecting sites important to Tribal Heritage, Culture and Religion. Furthermore, the Tribe is particularly concerned with historical sites that may contain but not limited to the burial(s) of human remains and associated funerary objects.

As described in your correspondence, and upon research of our database(s) and files, we find our people occupied these areas historically and/or prehistorically. However, the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe. Please continue project as planned. However, should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted. Please note that any future changes to this project will require additional consultation.

In accordance with the NHPA of 1966 (16 U.S.C. § 470-470w-6), federally funded, licensed, or permitted undertakings that are subject to the Section 106 review process must determine effects to significant historic properties. As clarified in Section 101(d)(6)(A-B), historic properties may have religious and/or cultural significance to Indian Tribes. Section 106 of NHPA requires Federal agencies to consider the effects of their actions on all significant historic properties (36 CFR Part 800) as does the National Environmental Policy Act of 1969 (43 U.S.C. § 4321-4347 and 40 CFR § 1501.7(a)). This letter evidences NHPA and NEPA historic properties compliance pertaining to consultation with this Tribe regarding the referenced proposed projects.

Thank you, for contacting the Eastern Shawnee Tribe, we appreciate your cooperation. Should you have any further questions or comments please contact our Office.

Sincerely,

Paul Barton, Tribal Historic Preservation Officer (THPO)
Eastern Shawnee Tribe of Oklahoma
(918) 666-5151 Ext:1833

From: Karen Garrard <kareng@metricenv.com>
Sent: Monday, October 04, 2021 4:16 PM
To: Sharkey, Rachel <RSharkey@dnr.IN.gov>
Cc: Coon, Matthew <mcoon@indot.IN.gov>
Subject: Floyd Co. bridge No. 51 (Des. No. 1700788; DHPA 26934) - updated Phase Ia Report with

Good Afternoon Rachel,

Attached please find the updated Phase I report for the above-referenced project.

Per the DHPA review letter (attached for your reference), you had asked for a Clark County site number to be assigned to the Blackiston Mill site since it straddles both Floyd and Clark counties. The report now references the site as "12FI0219 / 12CI1100"--that and the date are the only changes to the report.

A hard copy of the report is also being sent via US mail.

We have not yet entered the site data in SHAARD for the two new site numbers. Would you like us to wait until after the Phase Ib work or do them now and submit "revisit" forms later?

Thanks,
Karen



Karen N. Garrard, PhD, RPA

Senior Project Manager / Archaeological Principal Investigator

O 513.399.8482

M 513.687.5831

810 Plum Street
Cincinnati, OH 45202
www.metricenv.com



November 1, 2021

Candy Hudziak
Architectural Historian
Metric Environmental, LLC
6971 Hillsdale Court
Indianapolis, Indiana 46250

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Revised phase Ia archaeological report (Garrard/Hudziak, 10/4/2021) for the Floyd County
Bridge No. 51 carrying Blackiston Mill Road over Silver Creek, Clark and Floyd counties,
Indiana (Des. No. 1700788; DHPA No. 26934)

Dear Ms. Hudziak:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your October 7, 2021, submission, which enclosed the revised archaeological report, received by our office the same day for this project in Jeffersonville Township of Clark County and New Albany Township of Floyd County.

Thank you for the submission of the revised archaeological reconnaissance report (Garrard & Hudziak, 10/4/2021). This revised report includes the new, additional, site number for the site previously recorded as 12-FI-0219. After our initial review, it was decided that a Clark County site number was also appropriate as the site is located in both Floyd and Clark counties, and 12-Cl-1100 was also assigned to the site.

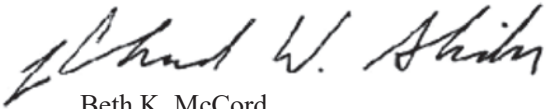
As previously stated:

- We concur that 12-FI-0219/12-Cl-1100 is potentially eligible for inclusion in the NRHP.
- We concur with the recommendation that the site either needs to be avoided (particularly those areas of the site including the mill and lime kiln remnants) or subjected to Phase Ib reconnaissance. We feel that Phase Ib reconnaissance would be especially beneficial within the immediate project corridor/footprint.
- It is our understanding from the submission that there are currently no plans to impact the low head dam. Additionally, we understand the lime kiln is currently outside of the proposed project boundary and will not be impacted by project activities.

The Indiana SHPO staff’s archaeological reviewer for this project is Rachel Sharkey, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the Floyd County Bridge No. 51 in Clark and Floyd counties (Des. No. 1700788), please continue to refer to DHPA No. 26934.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:DMK:RAS:ras

emc: Erica Tait, FHWA
Anuradha Kumar, INDOT
Shaun Miller, INDOT
Susan Branigin, INDOT
Mary Kennedy, INDOT
Candy Hudziak, Metric Environmental, LLC
Karen Garrard, Metric Environmental, LLC
Indiana Landmarks, Southern Regional Office
River Heritage Conservancy
Danielle Kauffmann, DNR-DHPA
Rachel Sharkey, DNR-DHPA

From: [Karen Garrard](#)
To: dhpareview@dnr.IN.gov
Cc: [Coon, Matthew](#); [Luella Beth Hillen](#); [Sam Snell](#); [Susan Castle](#); [Joshua Hillman](#); [Nathan Frey](#)
Subject: Des No. 1700788; DHPA 26934, Floyd County Bridge No. 58, Floyd and Clark Counties - Phase Ib-II Archaeological Work Plan submittal
Date: Friday, November 12, 2021 9:06:00 AM
Attachments: [Des 1700788 Floyd Cty Bridge 51 PhaseIb-II Work Plan 2021-11-10.pdf](#)
[image001.png](#)
[Des 1700788-DHPA26934 Metric transmittal letter PhaseIb-IIWorkPlan 2021-11-12.pdf](#)
[DHPA review submittal form 2021-11-12.pdf](#)

Hello,

Attached please find the Phase Ib-II Archaeological Work Plan and associated documents for review for the above-referenced project. This is for Site 12F10219 / 12C11100.

Hard copies of the documents are also being submitted via US Mail.

Thank you,

Karen



Karen N. Garrard, PhD, RPA

Senior Project Manager / Archaeological Principal Investigator

O 513.399.8482

M 513.687.5831

810 Plum Street
Cincinnati, OH 45202
www.metricenv.com

Certified DBE/MBE/SBE Company
Indiana | Kentucky | Ohio | West Virginia

Division of Historic Preservation & Archaeology 402 W. Washington Street, W274 Indianapolis, IN 46204-2739
Phone 317-232-1646 Fax 317-232-0693 dhpa@dnr.IN.gov



December 9, 2021

Karen Garrard
Metric Environmental, LLC
6971 Hillside Court
Indianapolis, Indiana 46250

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Phase Ib intensive survey and phase II testing at site 12FL0219/12CL1100 pertaining to the Floyd
County Bridge No. 51 carrying Blackiston Mill Road over Silver Creek, Floyd and Clark Counties,
Indiana (Des. No. 1700788; DHPA No. 26934)

Dear Ms. Garrard:

Pursuant to Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation, the Indiana State Historic Preservation Officer regarding the implementation of the Federal Aid Highway Program in the State of Indiana,” the staff of the Indiana State Historic Preservation Officer has reviewed the materials dated November 12, 2021 which we received as a digital document on November 12, 2021 and in hard copy on November 22, 2021.

The Division of Historic Preservation and Archaeology (“DHPA”) has reviewed the Work Plan for Phase Ib/II Archaeological Testing at Site 12FL0219/12CL11000 (Garrard, 11/10/2021). The proposed archaeological work plan is acceptable with the following conditions:

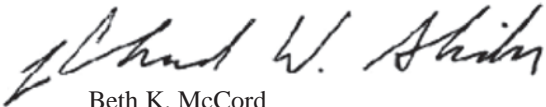
1. All archaeological investigations must be directly supervised, in the field and in the laboratory at all times by a qualified archaeologist meeting the qualification standards for a principal investigator or field or laboratory supervisor under 312 IAC 21.
2. The Phase Ib/II archaeological investigations will conform to the procedures described in the *Guidebook for Indiana Historic Sites and Structures Inventory—Archaeological Sites*.
3. If any human remains dating before December 31, 1939 are encountered, the discovery must be reported to the IDNR within two (2) business days. The discovery must be treated in accordance with IC 14-21-1 and 312 IAC 22. In that event, please call (317) 232-1646. If human remains are accidentally discovered during field investigations or related laboratory analyses, and would be subject to the Native American Graves Repatriation Act (NAGPRA), the investigating or curation facility shall assure NAGPRA reporting and compliance.
4. Written permission from all landowners must be provided to our office prior to the beginning of any fieldwork.
5. At the completion of the Phase Ib investigation, our office will be consulted to determine if Phase II investigations are necessary. The locations of proposed Phase II investigations will be provided at this time.
6. Any proposed revisions to the archaeological work plan must be submitted in writing to, and approved by, the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (“Indiana DNR-DHPA”) prior to implementation in the field or laboratory.
7. A report detailing the methods, techniques, analysis, and results of the proposed archaeological investigations must be submitted to the Indiana DNR-DHPA for review and comment within one year of the end of fieldwork.
8. Archaeological site survey forms and/or resurvey forms for these Phase Ib/II archaeological investigations must be submitted electronically to the Indiana DNR-DHPA SHAARD database system.
10. This plan is not transferable.

With these conditions, the proposed scientific plan is acceptable (Plan #2021060). A copy of this letter, along with proper identification, should be carried by archaeologists in the field. This will ensure minimal confusion should they be requested to produce proper identification in the field by law enforcement personnel.

The Indiana SHPO staff's archaeological reviewer for this project is Rachel Sharkey, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the Floyd County Bridge No. 51 in Clark and Floyd counties (Des. No. 1700788), please continue to refer to DHPA No. 26934.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:RAS:ras

emc: Erica Tait, FHWA
Anuradha Kumar, INDOT
Shaun Miller, INDOT
Susan Branigin, INDOT
Mary Kennedy, INDOT
Candy Hudziak, Metric Environmental, LLC
Karen Garrard, Metric Environmental, LLC
Indiana Landmarks, Southern Regional Office
River Heritage Conservancy
Danielle Kauffmann, DNR-DHPA
Rachel Sharkey, DNR-DHPA



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (317) 296-0799

Eric Holcomb, Governor
Joe McGuinness, Commissioner

February 10, 2022

This letter was sent to the listed parties.

RE: Floyd County Bridge No. 51 Project (NBI No. 2200050)
Blackiston Mill Road over Silver Creek
New Albany and Jeffersonville Townships, Floyd and Clark counties, Indiana
Des. No. 1700788/DHPA No. 26934

Dear Consulting Party (see attached list),

The Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), propose to proceed with the Floyd County Bridge No. 51 Project (Des. No. 1700788). Metric Environmental, LLC, is under contract with Jacobi, Toombs & Lanz, on behalf of Floyd County, to advance the environmental documentation for the referenced project.

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on January 21, 2021. On January 28, 2021, Laura Renwick of Indiana Landmarks replied that their organization would like to participate as a consulting party. Ms. Renwick also suggested that the River Heritage Conservancy be invited to be a consulting party. Subsequently, the River Heritage Conservancy was added to the attached consulting party list. In a letter dated February 17, 2021, the Miami Tribe of Oklahoma accepted the invitation to serve as a consulting party and requested they be notified if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act or archaeological evidence is discovered during any phase of this project.

The proposed undertaking is located in both Floyd and Clark counties, within the corporation limits of the City of New Albany and the Town of Clarksville. The project is on Blackiston Mill Road over Silver Creek, approximately 0.20 miles (mi) east of Charlestown Road. The existing structure has a precast concrete I-beam superstructure constructed in 1966 with a masonry substructure built in 1888. It is 176 feet (ft) long with two spans. The original bridge at this location was an iron bridge built in 1888 that collapsed under the weight of concrete mixer truck in 1963 during bridge repairs. The current bridge reused the original bridge's masonry piers and abutments substructure, and it was reopened to traffic in December 1966. The bridge was not included in the Indiana Historic Bridges Inventory, which evaluated bridges built before 1965. A typical cross section of Blackiston Mill Road consists of two 10-ft wide through-lanes adjoined by 1-ft wide concrete curbs provided in each direction. Guardrails are present; however, no sidewalks are provided in either

direction. It is within New Albany and Jeffersonville townships, on the New Albany, Indiana, USGS Topographic Quadrangle Map, in Township 99, Range 99, Section 63.

The purpose of this project is to improve the bridge facility's deficiencies and roadway geometrics to maintain connectivity over Silver Creek and reduce flooding on Blackiston Mill Road. This need is supported by data from the most recent Bridge Inspection Report, dated March 20, 2019, which rated the current bridge structure 4 out of 9 possible points, indicating poor condition. Issues noted in the report include hairline cracks and efflorescence on the bridge deck, cracks on the wearing surface, and open joints visible on the superstructure due to erosion. Blackiston Mill Road on the southeast approach to the bridge is lower in elevation than the existing bridge, causing frequent flooding due to backwater from the Ohio River. When this happens Blackiston Mill Road is closed to traffic. On the roadway's western approach to the bridge there is a steep vertical profile grade and a substandard horizontal curve.

The undertaking proposes to realign Blackiston Mill Road and to construct a new bridge across Silver Creek. Blackiston Mill Road will be realigned beginning just east of Blackiston Boulevard near Silverwood Court by shifting the roadway to the north on new alignment and curving to the southeast as it approaches a new bridge over Silver Creek. The new bridge will be a 65-m (215-ft)-long, three-span concrete bridge located just upstream of the existing Blackiston Mill Dam (Indiana Department of Natural Resources [IDNR] No. 10-4) on Silver Creek. The dam is located approximately 20 m (65 ft) upstream from existing bridge but is not a project component. The new bridge will have two 3.6-m (12-ft)-wide lanes with curbs, gutters, and 1.8-m (6-ft) sidewalks on both sides. East of the new bridge, the new alignment will continue to curve to the southeast until Walnut Grove Drive, at which point Blackiston Mill Road will return to its existing alignment. The roadway east of the bridge will be raised from its current elevation of 133 m (438 ft) to 134 m (442 ft) above sea level to meet the 25-year flood elevation. The lane widths on Blackiston Mill Road would be reduced from 12 ft to 11 ft to provide a 6-ft sidewalk adjacent to the back of the curb and gutter on each side of the road. Existing curb and gutter would also be replaced. Silverwood Court would be realigned to improve sight distance at the intersection with the realigned Blackiston Mill Road. The drives on the south side of the road east of the bridge would be lengthened to the south due to the proposed new roadway being raised to prevent flooding.

The proposed project is anticipated to require the acquisition of approximately 4.5 acres (ac) of new permanent right-of-way (ROW) for the roadway and bridge, and an additional 4.0 ac of permanent ROW for compensatory excavation. It will also require 0.9 h (2.3 ac) of temporary ROW for drive construction, road and bridge removal, and lawn grading. Approximately 0.8 ha (2.0 ac) of existing trees will be removed and one residential parcel acquired; the three buildings located on the parcel will be demolished.

Traffic will remain on Blackiston Mill Road and continue using the existing bridge as the proposed bridge and road approaches are being constructed. To connect the beginning and end of the project to the existing roadway, traffic will be required to use a detour route that is marked with appropriate construction signs. The closure is estimated to last about 45 days.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status—as well as additional entities that are currently being invited to become consulting parties—are identified in the attached list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess its effects, and seek ways to avoid, minimize, or mitigate any adverse effects on historic properties. For more information

regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, no above-ground resources are recommended as eligible for listing in the NRHP. The Historic Property Report detailing these findings was provided to consulting parties for review on June 25, 2021.

With regard to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards conducted a Phase Ia archaeological investigation and identified one historic archaeological site within the project area. As a result of these efforts, Site 12FI0219/12CI0110 was recommended as potentially eligible for listing in the NRHP, and either avoidance or a Phase Ib archaeological investigation was recommended. The Archaeology Report detailing results of the Phase I archaeological investigation was provided to consulting parties for review on June 25, 2021.

A Phase Ib archaeological investigation was conducted for Site 12FI0219/12CI0110. Based on the results of the investigation, portions of the site located within the project's current footprint/construction area are considered unlikely to have the potential to provide additional meaningful knowledge concerning Site 12FI0219/12CI0110 or the history of the area. Project clearance was recommended for the project's current footprint/construction area. Site 12FI0219/12CI0110 remains potentially eligible for the NRHP. If project design plans change and the current footprint/construction area is extended into additional portions of the site, further archaeological work would be needed to evaluate its eligibility for listing in the NRHP.

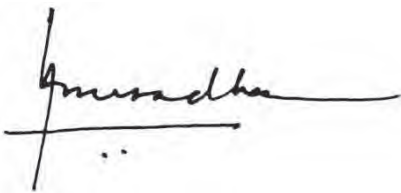
The Management Summary reporting the results of the Phase Ib archaeological investigation is available for review (Tribes only) in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review this document and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request as soon as you can.

Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party, or if you do not respond, you will not be included on the list of consulting parties for this project. If we do not receive your response in the time allotted, the project will proceed consistent with the proposed design and you will not receive further information about the project unless the design changes. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience.

For questions concerning specific project details, you may contact Karen Garrard of Metric Environmental, LLC, at 513.899.8482 or kareng@metricenv.com. All future responses regarding the proposed project should be forwarded to Metric Environmental, LLC at the following address:

Karen Garrard, PhD
Principal Investigator, Archaeology
Metric Environmental, LLC.
6958 Hillside Court
Indianapolis, Indiana 46250
kareng@metricenv.com

Tribal contacts may contact Patty Jo Korzeniewski at pkorzeniewski@indot.in.gov or 317-416-4377 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629.



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Distribution List (in addition to IN SHPO):

Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Shawnee Tribe
United Keetoowah Band of Cherokee Indians
Delaware Tribe of Indians

Indiana Landmarks
Southern Regional Office
Laura Renwick, Community Preservation Specialist
911 State Street
New Albany, IN 47150

River Heritage Conservancy
Scott Martin, Executive Director
129 E. Court Avenue
Jeffersonville, IN 47130

From: [Coon, Matthew](#)
To: lheady@delawaretribe.org; thpo@estoo.net; [Diane Hunter](#); [Charla EchoHawk](#); [Matthew Bussler](#); [Tonya Tipton](#); [Erica Gorsuch](#)
Cc: [Karen Garrard](#); [Carmany-George, Karstin \(FHWA\)](#); [Korzeniewski, Patricia J](#)
Subject: FHWA Project: Des. No. 1700788; Archaeology Management Summary Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana
Date: Thursday, February 10, 2022 1:07:06 PM

External Message: *This message originated outside of Metric Environmental.
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Des. No.: 1700788

Project Description: Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project

Location: New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

The Floyd County Commissioners, with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation (INDOT), propose to proceed with the Floyd County Bridge No. 51/NBI No. 2200050 over Silver Creek and the Blackiston Mill Road Project (Des. No. 1700788). The Section 106 Early Coordination Letter for this project was originally distributed on January 21, 2021.

As part of Section 106 of the National Historic Preservation Act, an Archaeology Management Summary Report has been prepared and is ready for review and comment by consulting parties.

Please review the Archaeology Management Summary Report located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE) and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request as soon as you can.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience.

Tribal contacts may contact Patty Jo Korzeniewski at pkorzeniewski@indot.in.gov or 317-416-4377 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629.

Thank you in advance for your input,

Matt Coon

Archaeologist, Cultural Resources Office

Indiana Department of Transportation

100 North Senate Ave., **N758-Environmental Services**

Indianapolis, IN 46204

Phone: 317-697-9752

From: [Karen Garrard](#)
To: [McCord, Beth K](#); Irenwick@indianalandmarks.org; smartin@riverheritageconservancy.org
Cc: [Coon, Matthew](#); [Kumar, Anuradha](#); [Korzeniewski, Patricia J](#); [Branigin, Susan](#); [Aaron Sutherland](#); [Stephen Weber](#); [Luella Beth Hillen](#); [Candace Hudziak](#); [Kennedy, Mary](#)
Subject: FHWA Project: Des. No. 1700788; Archaeology Management Summary Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana
Date: Thursday, February 10, 2022 11:54:00 AM
Attachments: [image001.png](#)

Des. No.: 1700788

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Thank you in advance for your input,



Karen N. Garrard, PhD, RPA

Senior Project Manager / Archaeological Principal Investigator

O 513.399.8482

M 513.687.5831

810 Plum Street

From: [Susan Rademacher](#)
To: [Karen Garrard](#)
Subject: RE: FHWA Project: Des. No. 1700788; Archaeology Management Summary Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana
Date: Thursday, February 10, 2022 1:47:36 PM
Attachments: [image001.png](#)

Thank you for following up on this. I am picking up lots of project pieces as you can imagine, and this is an important one. I see that we have a 30-day review window. What date will that be?

Susan Rademacher
River Heritage Conservancy
502-876-4647

From: Karen Garrard <kareng@metricenv.com>
Sent: Thursday, February 10, 2022 12:05 PM
To: Susan Rademacher <srad@riverheritageconservancy.org>
Subject: FW: FHWA Project: Des. No. 1700788; Archaeology Management Summary Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

Ms. Rademacher,
Please see the email below, which was sent to Scott Martin, former Executive Director of the River Heritage Conservancy.

I received an automated message that you are now the Executive Director.

Thank you,



Karen N. Garrard, PhD, RPA

Senior Project Manager / Archaeological Principal Investigator

O 513.399.8482

M 513.687.5831

810 Plum Street
Cincinnati, OH 45202
www.metricenv.com

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Susan Castle

Subject: FW: FHWA Project: Des. No. 1700788; Archaeology Management Summary Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

From: Karen Garrard

Sent: Thursday, February 10, 2022 1:52 PM

To: Susan Rademacher <srad@riverheritageconservancy.org>

Subject: RE: FHWA Project: Des. No. 1700788; Archaeology Management Summary Report, Floyd County Bridge No. 51 over Silver Creek and Blackiston Mill Road Project, New Albany and Jeffersonville Townships, Floyd and Clark Counties, Indiana

Ms. Rademacher,

The 30-day review period ends March 11th, 2022.

Thanks,
Karen Garrard



Karen N. Garrard, PhD, RPA

Senior Project Manager / Archaeological Principal Investigator

O 513.399.8482

M 513.687.5831

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**EASTERN SHAWNEE
CULTURAL PRESERVATION DEPARTMENT**

70500 East 128 Road, Wyandotte, OK 74370

February 14, 2022

INDOT - Indiana Department of Transportation
100 N. Senate Ave. IGCN642
Indianapolis, IN 46201

RE: *Des No. 1700788, Floyd and Clark County, Indiana*

Dear Ms. Korzeniewski,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Floyd and Clark County, Indiana. The Eastern Shawnee Tribe is committed to protecting sites important to Tribal Heritage, Culture and Religion. Furthermore, the Tribe is particularly concerned with historical sites that may contain but not limited to the burial(s) of human remains and associated funerary objects.

As described in your correspondence, and upon research of our database(s) and files, we find our people occupied these areas historically and/or prehistorically. However, the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe. Please continue project as planned. However, should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted. Please note that any future changes to this project will require additional consultation.

In accordance with the NHPA of 1966 (16 U.S.C. § 470-470w-6), federally funded, licensed, or permitted undertakings that are subject to the Section 106 review process must determine effects to significant historic properties. As clarified in Section 101(d)(6)(A-B), historic properties may have religious and/or cultural significance to Indian Tribes. Section 106 of NHPA requires Federal agencies to consider the effects of their actions on all significant historic properties (36 CFR Part 800) as does the National Environmental Policy Act of 1969 (43 U.S.C. § 4321-4347 and 40 CFR § 1501.7(a)). This letter evidences NHPA and NEPA historic properties compliance pertaining to consultation with this Tribe regarding the referenced proposed projects.

Thank you, for contacting the Eastern Shawnee Tribe, we appreciate your cooperation. Should you have any further questions or comments please contact our Office.

Sincerely,

Paul Barton, Tribal Historic Preservation Officer (THPO)
Eastern Shawnee Tribe of Oklahoma
(918) 666-5151 Ext:1833



PEORIA TRIBE OF INDIANS OF OKLAHOMA

118 S. Eight Tribes Trail (918) 540-2535 FAX (918) 540-2538

P.O. Box 1527

MIAMI, OKLAHOMA 74355

CHIEF
Craig Harper

SECOND CHIEF
Rosanna Dobbs

February 25, 2022

Matt Coon
Archaeologist, Cultural Resources Office
INDOT
100 N Senate Ave., Rm 758-ES
Indianapolis, IN 46204

Re: Des. #1700788; Floyd County bridge #51 over Silver Creek, road project

Thank you for providing notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is unaware of a direct link to the newly proposed project location.

The Peoria Tribe of Indians of Oklahoma is also unaware of items covered under Native American Graves Protection and Repatriation Act (NAGPRA) to be associated with the proposed project site, including funerary or sacred objects; objects of cultural patrimony; or ancestral human remains.

The Peoria Tribe has no objection at this time to the proposed project. If, however, at any time items are discovered which fall under the protection of NAGPRA, the Peoria Tribe requests immediate notification and consultation. In addition, state, local and tribal authorities should be advised as to the findings and construction halted until consultation with all concerned parties has occurred.

Please feel free to contact me directly at the number above if additional consultation is necessary. Thank you again for your consideration with this matter.

Sincerely,

Charla K. EchoHawk
Director of Cultural Preservation

TREASURER
Hank Downum

SECRETARY
Tonya Mathews

FIRST COUNCILMAN
Carolyn Ritchey

SECOND COUNCILMAN
Kara North

THIRD COUNCILMAN
Isabella Burrell

Division of Historic Preservation & Archaeology 402 W. Washington Street, W274 Indianapolis, IN 46204-2739
Phone 317-232-1646 Fax 317-232-0693 dhpa@dnr.IN.gov



March 9, 2022

Karen Garrard
Principal Investigator, Archaeology
Metric Environmental, LLC
6958 Hillsdale Court
Indianapolis, Indiana 46250

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: Management summary for the phase Ib intensive survey and phase II testing at site
12FL0219/12CL1100 pertaining to the Floyd County Bridge No. 51 carrying Blackiston Mill Road
over Silver Creek, (Des. No. 1700788; DHPA No. 26934)

Dear Ms. Garrard:

Pursuant to Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation, the Indiana State Historic Preservation Officer regarding the implementation of the Federal Aid Highway Program in the State of Indiana,” the staff of the Indiana State Historic Preservation Officer has reviewed the materials dated and received by our office February 10, 2022 for this project in Floyd and Clark counties, Indiana.

Thank you for supplying the management summary report regarding Phase Ib investigations of site 12FL219/CL1100. The archaeological investigations which have been conducted have met the stated goals of the approved work plan. As we understand, the portion of 12FL219/CL1100 that was investigated does not appear to be eligible for inclusion in the National Register of Historic Places. Construction can proceed as planned for the Floyd County Bridge No. 51 carrying Blackiston Mill Road project, with the following conditions:

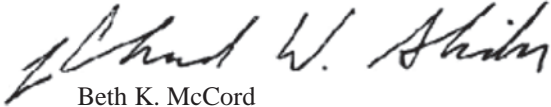
1. Per our letter dated December 9, 2021, approving the Phase Ib/II investigations, a full report detailing the methods, techniques, analysis, and results of the proposed Phase Ib archaeological investigations must be submitted to the DHPA for review and comment within one year of the end of fieldwork. In addition, an archaeological site form for this level of investigation for site 12FL219/CL1100 will be entered into SHAARD at the same time as submission of the full draft report.
2. Also per the approved archaeological work plan, it was decided that our office would be consulted after the Phase Ib intensive survey to determine if Phase II investigations were necessary. Based on the results of the Phase Ib intensive survey, we do not believe that Phase II investigations for those portions of the site within the projects current footprint.
3. The portions of site 12FL219/CL1100 that lie outside the proposed project area should be clearly marked so that they are avoided by all ground-disturbing project activities. If avoidance is not feasible, then additional archaeological assessment of those portions of the site will be necessary.
4. If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-29) requires that the discovery be reported to the INDNR-DHPA within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

We look forward to receiving the full report for review and comment.

The Indiana SHPO staff's archaeological reviewer for this project is Rachel Sharkey, and the structures reviewer is Danielle Kauffmann. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the Floyd County Bridge No. 51 in Clark and Floyd counties (Des. No. 1700788), please continue to refer to DHPA No. 26934.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:RAS:ras

- emc: Erica Tait, FHWA
Anuradha Kumar, INDOT
Matt Coon, INDOT
Susan Branigin, INDOT
Mary Kennedy, INDOT
Candy Hudziak, Metric Environmental, LLC
Karen Garrard, Metric Environmental, LLC
Indiana Landmarks, Southern Regional Office
River Heritage Conservancy
Danielle Kauffmann, DNR-DHPA
Rachel Sharkey, DNR-DHPA

**Proof of
Publication**

**STATE OF INDIANA
COUNTY OF FLOYD - SS**

Theresa Wheatbrook says on oath that she is the
bookkeeper of NEWS AND TRIBUNE and in
the employ of the publisher of

NEWS AND TRIBUNE,

a daily newspaper of general circulation printed and
published in the city of New Albany, Floyd County
State of Indiana, and further says that the annexed
advertisement was published in said paper for
#(1) time(s) to-wit: In issue of said NEWS AND TRIBUNE

Dated: 04-23 2022

(X) Theresa Wheatbrook

**STATE OF INDIANA
COUNTY OF FLOYD**

Subscribed and sworn to before me this

25TH day of April 2022

(X) Joann Galligan
Joann Galligan



Notary Public, Floyd County, Indiana
(My Commission Expires August 27, 2022)
Commission Number 655965

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Public Notice
Des. No. 1700788

The Floyd County Commissions are planning to undertake the replacement of Floyd County Bridge No. 51, funded in part by the Federal Highway Administration (FHWA). The project is located on Blackiston Mill Road, New Albany and Jefferson townships, Floyd and Clark counties, Indiana.

Under the preferred alternative, the proposed project would involve realignment of Blackiston Mill Road and construction of a new three-span concrete bridge across Silver Creek. The project is anticipated to require acquisition of approximately 8.5 acres of permanent and 2.3 acres of temporary right-of-way, removal of approximately 2 acres of existing trees, and the acquisition of one residential parcel. The three buildings located on the parcel will be demolished.

Properties listed in or potentially eligible for the National Register of Historic Places (NRHP) located within the Area of Potential Effects (APE) include one archaeological site (12FI0219/12CI1100). The proposed action impacts properties listed in or potentially eligible for the NRHP. The Indiana Department of Transportation (INDOT), on behalf of the FHWA, has issued a "No Adverse Effect" finding for the project because the project will not diminish the integrity of any characteristics that may qualify properties within the APE for inclusion in the NRHP. In accordance with the National Historic Preservation Act, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.2(d), 800.3(e) and 800.5(a)(4). Pursuant to 36 CFR 800.4(d)(2), the documentation specified in 36 CFR 800.11(e) is available for inspection at Metric Environmental, LLC. Additionally, this documentation can be viewed electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <http://erms.indot.in.gov/Section106Documents>. This documentation serves as the basis for the "No Adverse Effect" finding. The views of the public on this effect finding are being sought. Please reply with any comments to Karen Garrard, of Metric Environment, LLC, 6958 Hillside Court, Indianapolis, IN 46250, phone -- (317) 400-1633, fax -- (855) 808-8227, or email -- kareng@metricenv.com, no later than May 23, 2022.

In accordance with the "Americans with Disabilities Act", if you have a disability for which Floyd County needs to provide accessibility to the document(s) such as interpreters or readers, please contact Don Lopp, Floyd County Director of Operations, phone -- (812) 948-4110, email -- dlopp@floydcounty.in.gov. hspaxlp

APPENDIX E: Red Flag and Hazardous Materials



Date: November 8, 2021

To: Site Assessment & Management (SAM)
Environmental Policy Office – Environmental Services Division (ESD)
Indiana Department of Transportation
100 N Senate Avenue, Room N758-ES
Indianapolis, IN 46204

From: Colin Keith
Metric Environmental, LLC
6958 Hillside Court
Indianapolis, IN 46250
colink@metricenv.com

Re: RED FLAG INVESTIGATION (RFI)
DES #1700788, Local Project
Replacement of Floyd County Bridge #51
Blackiston Mill Road over Silver Creek
Floyd and Clark Counties, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The project will include realigning Blackiston Mill Road and constructing a new bridge across Silver Creek. The preferred alternative is to realign Blackiston Mill Road, beginning just east of Blackiston Boulevard near Silverwood Court, by shifting the roadway to the north and curving to the southeast as it approaches the new bridge over Silver Creek. The new bridge will be a 215-foot-long, three-span prestressed concrete I-beam bridge located upstream of the existing dam on Silver Creek. The bridge will have two 12-foot-wide lanes with curbs, gutters, and 6-foot-wide sidewalks on both sides. Southeast of the new bridge, Blackiston Mill Road will continue to curve to the southeast until Walnut Grove Drive, at which point Blackiston Mill Road will return to its existing alignment. The roadway southeast of the bridge will be raised from its current low point elevation of 433 feet above mean sea level (AMSL) to 442 feet AMSL to meet the approximate 25-year flood elevation (Q25); this will reduce the frequency of flooding by backwater from the Ohio River. An area of compensatory excavation southeast of the crossing will provide flood storage to make up for the roadway grade rise and minimize downstream impacts.

The lane widths on Blackiston Mill Road for the 3-lane section from the beginning of the project to approximately 240 feet northwest of the new bridge will be 11 feet. The three 11-foot-wide lanes will transition to two 12-foot-wide lanes for a distance of 135 feet, continuing to approximately 30 feet southeast of the bridge. The lanes will then transition to 11 feet wide and continue to approximately 270 feet southeast of Walnut Grove Drive. The new roadway will provide a 6-foot-wide sidewalk adjacent to the back of the curb and gutter on each side of the road. The new alignment will transition into the existing alignment over a 290-foot distance with 2-foot earthen shoulders and no sidewalk. Existing curb and gutter will also be replaced. Silverwood Court will be realigned to improve sight distance at the intersection with the realigned Blackiston Mill Road. The shift in the alignment of Silverwood Court will also provide left-turn lanes on Blackiston Mill Road to Silverwood Court and a commercial drive, where none currently exist. Approximately 200 feet of Walnut Grove Drive will be shifted to the northwest due to the higher elevation of Blackiston Mill Road; the intersection of Blackiston Mill Road and Walnut Grove Drive will be reconstructed to accommodate the new alignments. The commercial and residential drives southeast of the bridge will be reconstructed due to the new roadway elevation being raised above Q25. The existing bridge and approximately 250 feet of the north approach and 165 feet of the south approach will be removed.

Bridge and/or Culvert Project: Yes No Structure #22-00051

If this is a bridge project, is the bridge Historical? Yes No ; Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary #Acres 0.6 Permanent #Acres 10.4, Not Applicable

Type of excavation: Rebuilding road profile south of bridge to raise it above the Q25, new roadbed and sideslope construction, drainage structure installation under the road, removal of existing bridge piers and abutments, installation of new bridge piers and abutments. Maximum excavation depth estimated at 3.5 feet for drainage structure installation, 15 feet for the pier/abutment work and 4 feet for retaining walls associated with the roadway work.

Maintenance of traffic: Closure of road and bridge with detour route. The likely detour route would include use of I-65, I-265, Charlestown Road, and the Lewis and Clark Parkway.

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Indicate the number of items of concern found within the 0.5-mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	2*	Recreational Facilities	N/A
Airports ¹	1	Pipelines	1
Cemeteries	1	Railroads	N/A
Hospitals	1	Trails	2
Schools	N/A	Managed Lands	N/A

¹In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) was conducted.

Religious Facilities: Although not listed in the GIS layer, two (2) religious facilities are located within the 0.5-mile search radius. The nearest, Resurrection Life Church, is located 0.1 mile southeast of the southeast end of the project area. No impact is expected.

Airports: Although not located within the 0.5 mile search radius, one (1) public-use airport, Clark Regional, is located within 3.8 miles (20,000 feet) of the project area. The public-use airport is located approximately 3.25 miles northeast of the project area; therefore, early coordination with INDOT Aviation will occur.

Cemeteries: One (1) cemetery is located within the 0.5-mile search radius. The cemetery (Slate Run cemetery) is located 0.33 mile northwest of the project area. No impact is expected.

Hospitals: One (1) hospital is located within the 0.5-mile search radius. The hospital (Southern Indiana Rehab Hospital) is identified adjacent to the west end of the project area; however, it is incorrectly mapped and is physically located at 3104 Blackiston Boulevard, 0.08 mile north of the project area at its nearest point. Coordination with Southern Indiana Rehab Hospital will occur.

Pipelines: One (1) pipeline segment is present within the 0.5-mile search radius. The pipeline, owned by Indiana Gas and carrying natural gas, crosses the project area. Coordination with Indiana Gas will occur.

Trails: Two (2) trail segments are located within the 0.5-mile search radius. The nearest is Phase I Trails, an open asphalt trail 0.17 mile northwest of the project area at its closest point. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5-mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	24
Canal Structures – Historic	N/A	Lakes	10
NPS NRI Listed	N/A	Floodplain - DFIRM	18
NWI-Lines	9	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	3	Sinkhole Areas	N/A
Rivers and Streams	11	Sinking-Stream Basins	N/A

NWI Lines: Nine (9) NWI Line segments are located within the 0.5-mile search radius. The nearest is approximately 0.12 mile west of the project area. No impact is expected.

IDEM 303d Listed Streams and Lakes (Impaired): Three (3) 303d Listed Stream segments are located within the 0.5-mile search radius. Two of the segments are associated with Silver Creek, which flows through the project area and is listed for impairment by PCBs in fish tissue. The risk of exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD SAM will occur.

Rivers and Streams: Eleven (11) river/stream segments are located within the 0.5-mile search radius. One of the lines, associated with Silver Creek, crosses the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

NWI Wetlands: Twenty-four (24) NWI wetlands are located within the 0.5-mile search radius. The nearest is adjacent west of the project area and is associated with Silver Creek, which flows through the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

Lakes: Ten (10) lakes are located within the 0.5-mile search radius. The closest is approximately 0.24 mile north/northwest of the project area. No impact is expected.

Floodplains: Eighteen (18) floodplain polygons are located within the 0.5-mile search radius. Four of the polygons are located within the project area. Coordination with the appropriate agency will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Indicate the number of items of concern found within the 0.5-mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

No mining/mineral exploration resources were identified within the 0.5-mile search radius.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Indicate the number of items of concern found within the 0.5-mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	1	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	5
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	1
Leaking Underground Storage (LUST) Sites	1	Notice of Contamination Sites	N/A

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

UST Sites: One (1) UST site is located within the 0.5-mile search radius. Kroger Store #744 (2864 Charlestown Road, Agency Interest (AI) #37180) is approximately 0.22 mile southwest of the project area. IDEM conducted a UST Inspection on May 19, 2016, and the facility was found to be in compliance with equipment, operating, and maintenance requirements set forth in Indiana’s UST Rule 329 IAC 9. No impact is expected.

LUST Sites: One (1) LUST site is located within the 0.5-mile search radius. Dairy Mart #735 (3706 Charlestown Road, AI #32321) is approximately 0.08 mile west of the project area. A LUST incident was reported to IDEM based on a failed Statistical Inventory Report (SIR) as well as damage to a dispenser caused by a customer. The product released from the damaged dispenser was recovered from the spill containment bucket and the dispenser was repaired. The supply lines were tested for tightness and the tank leak detection systems were evaluated; the lines passed the tightness tests and the leak detectors were found to be working properly. A tank pit well was sampled and found to contain a benzene concentration below the residential closure level. The consultant concluded that the SIR report was likely incorrect due to human error in measuring product levels in the tanks and that no evidence of an actual release was found. The facility received a No Further Action (NFA) letter from IDEM on May 6, 1999. No impact is expected.

NPDES Facilities: Five (5) NPDES Facilities are located within the 0.5-mile search radius. The nearest is Clarksville STP – North (Permit #IN0020621), located within or adjacent to the south of the central portion of the project area. The permit status is terminated, with an expiration date of June 30, 1988. No impacts are expected.

NPDES Pipe Locations: One (1) NPDES Pipe is located within the 0.5-mile search radius. The pipe is identified as belonging to the Clarksville WWTP; however, the mapped location of the pipe (0.03 mile south of the central portion of the project area) is in a residential area and the plant is located several miles south of the project area, suggesting the pipe may be mapped incorrectly. No impacts are expected.

ECOLOGICAL INFORMATION SUMMARY

The Clark and Floyd County listings of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high-quality natural communities are provided at

https://www.in.gov/dnr/naturepreserve/files/np_clark.pdf and https://www.in.gov/dnr/naturepreserve/files/np_floyd.pdf.

A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species within the 0.5-mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in an urban area surrounded by primarily by trees and grassy areas. The March 27, 2021 inspection report for Bridge #22-00051 states that no evidence of bats was seen or heard under the bridge. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE:

Airports: Clark Regional airport is located approximately 3.25 miles northeast of the project area; therefore, early coordination with INDOT Aviation will occur.

Hospitals: Southern Indiana Rehab Hospital is identified adjacent to the west end of the project area; however, it is incorrectly mapped and is physically located at 3104 Blackiston Boulevard, 0.08 mile north of the project area at its nearest point. Access to the facility will be maintained during construction. Coordination with Southern Indiana Rehab Hospital will occur.

Pipelines: One pipeline crosses the project area. Coordination with Indiana Gas will occur.

WATER RESOURCES: The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with the appropriate agencies, if warranted:

- One (1) stream, Silver Creek, is located within the project area.
- One (1) NWI wetland, associated with Silver Creek, is adjacent west of the project area.
- The project area is located within a floodplain.

IDEM 303d Listed Streams and Lakes (Impaired): Silver Creek is impaired for PCBs in fish tissue. The risk of exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD SAM will occur.

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

INDOT Environmental Services concurrence:

Nicole Fohey Breting Digitally signed by
 Nicole Fohey-Breting
 Date: 2021.11.18
 14:56:43 -05'00' _____ (Signature)

Prepared by:
Colin Keith
Project Scientist
Metric Environmental, LLC

GRAPHICS

A map for each report section with a 0.5 mile search radius buffer around the project area showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

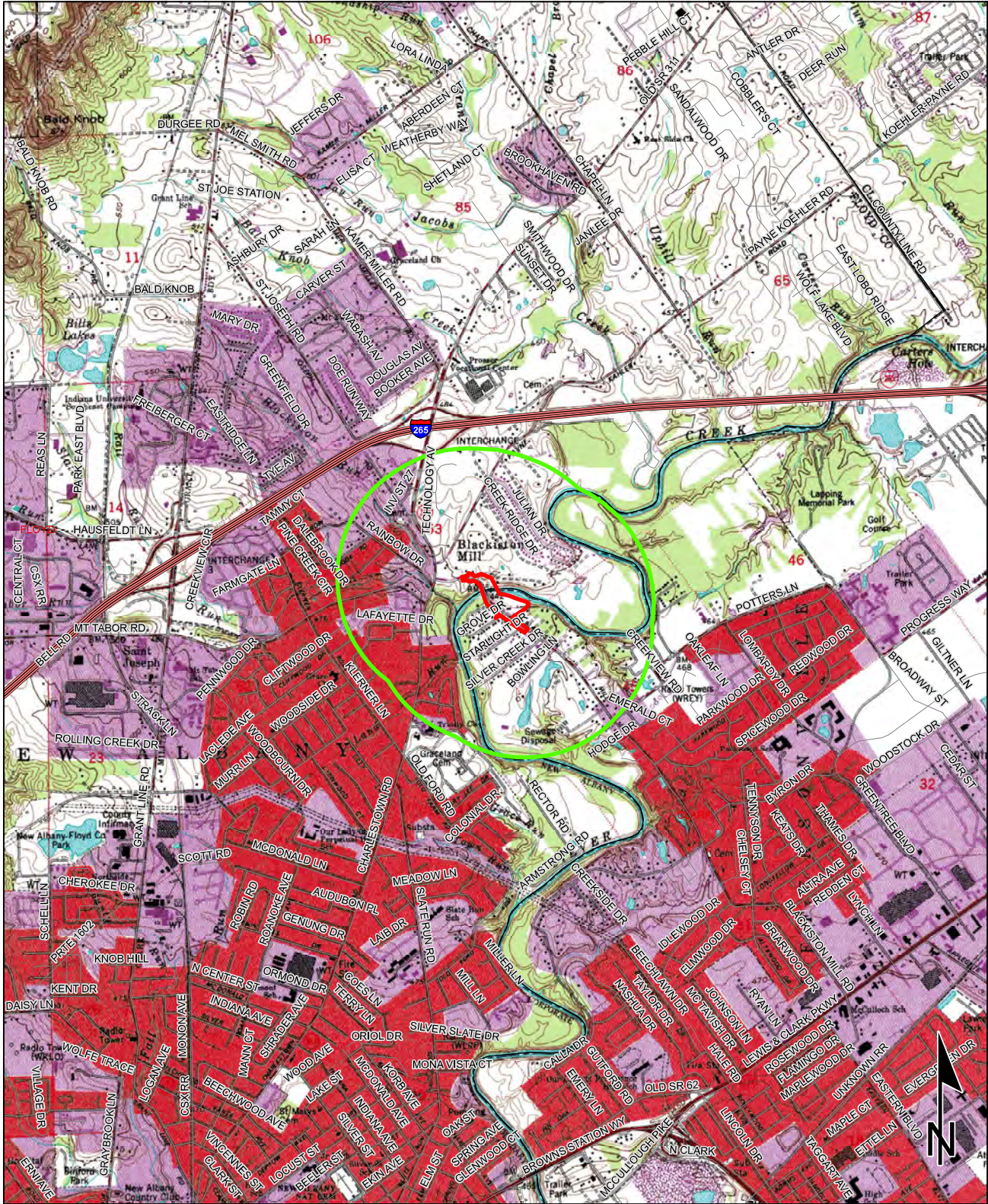
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location
 Blackiston Mill Road over Silver Creek
 Des. No. 1700788, Bridge Project
 Floyd and Clark Counties, Indiana



Sources: 0.5 0.25 0 0.5 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

**NEW ALBANY QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

Red Flag Investigation - Infrastructure

Blackiston Mill Road over Silver Creek

Des. No. 1700788, Bridge Project

Floyd and Clark Counties, Indiana



Sources: 0.15 0.075 0 0.15 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

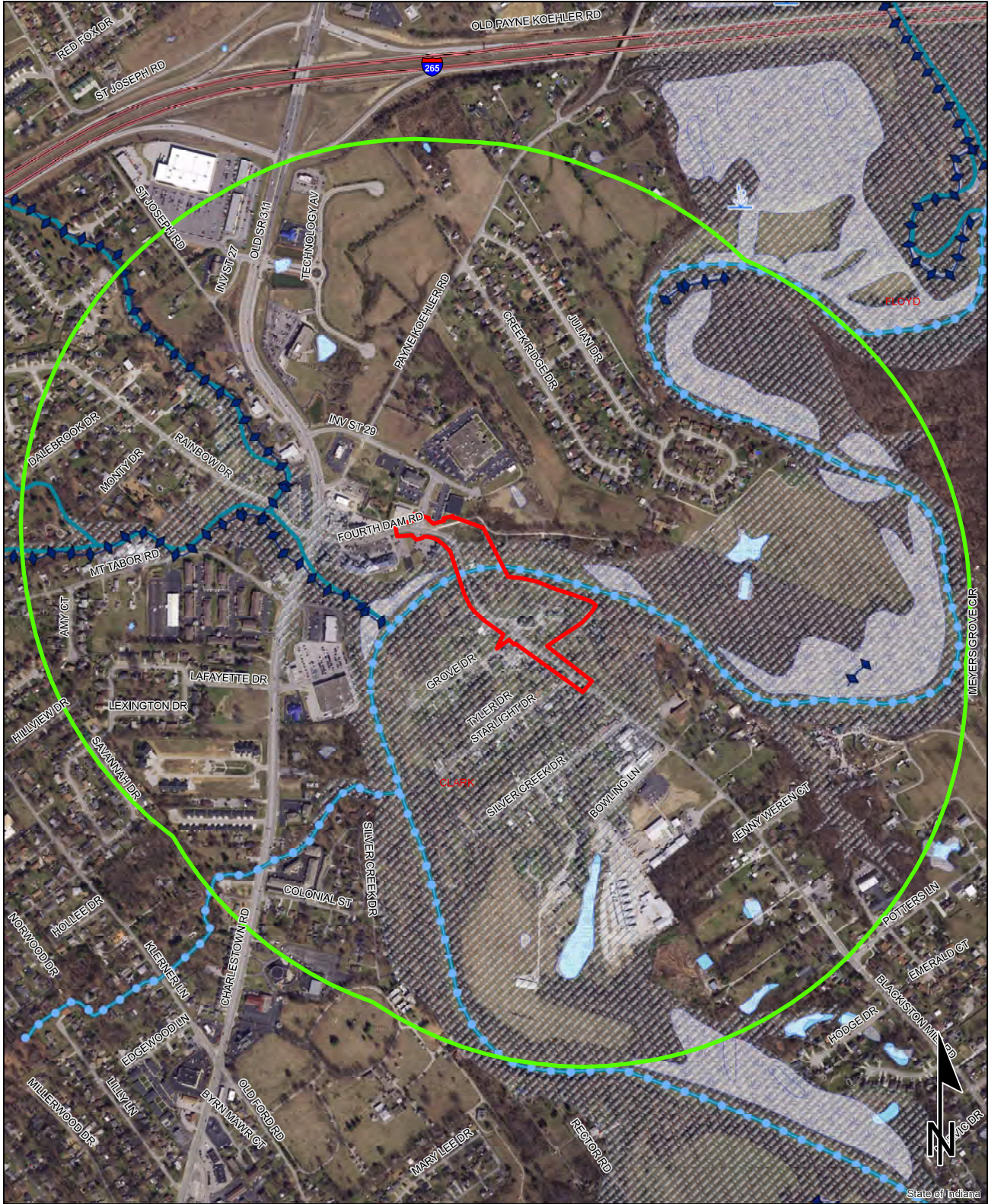
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources

Blackiston Mill Road over Silver Creek

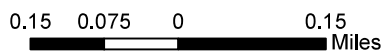
Des. No. 1700788, Bridge Project

Floyd and Clark Counties, Indiana



Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



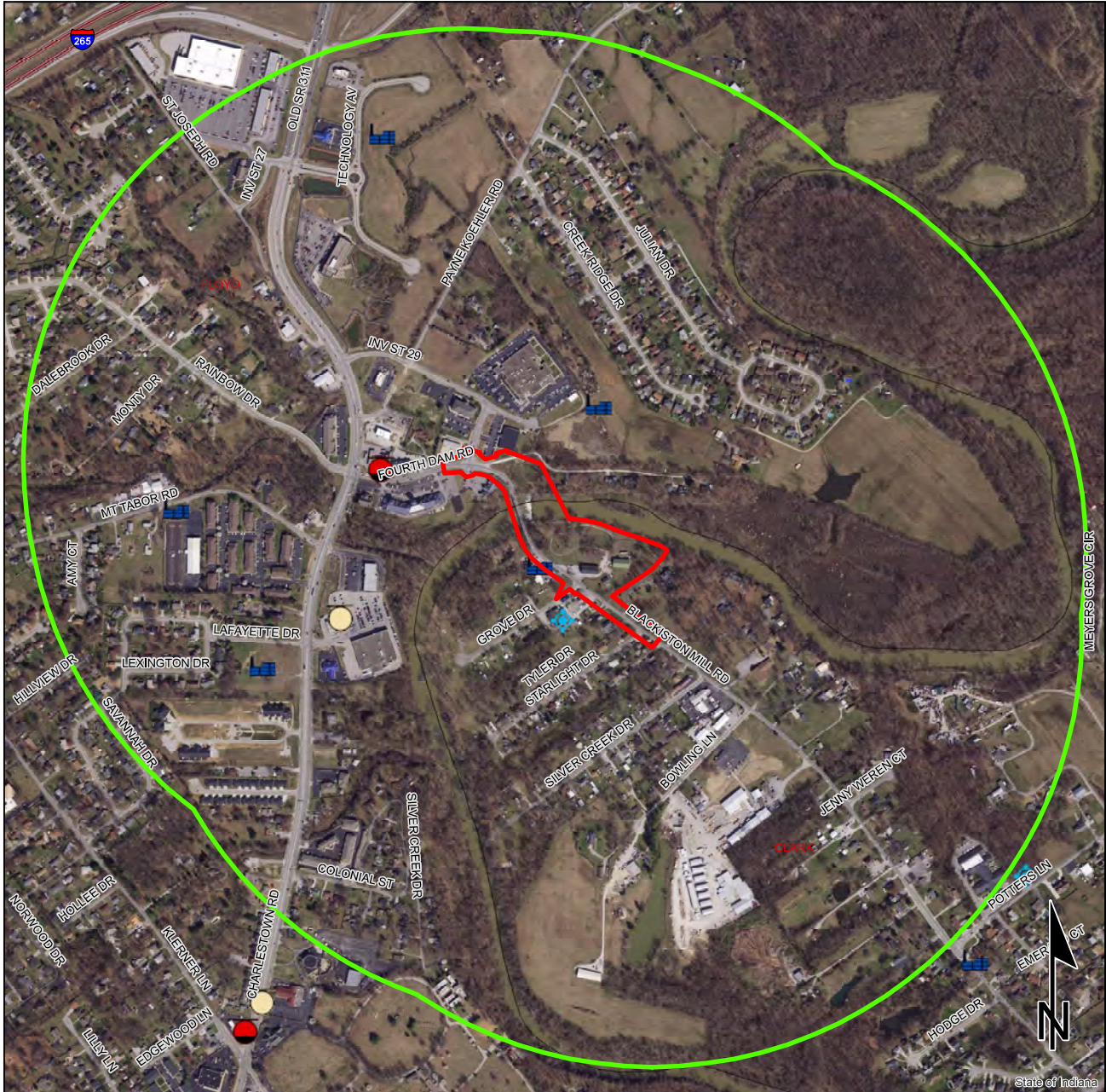
NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

Red Flag Investigation - Hazardous Material Concerns

Blackiston Mill Road over Silver Creek

Des. No. 1700788, Bridge Project

Floyd and Clark Counties, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				

0.15 0.075 0 0.15
Miles

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

APPENDIX F: Water Resources

WATERS DELINEATION REPORT

FLOYD COUNTY BRIDGE NO. 51

FLOYD COUNTY

DES. NO. 1700788

NEW ALBANY TOWNSHIP, FLOYD COUNTY AND
JEFFERSONVILLE TOWNSHIP, CLARK COUNTY, INDIANA

Prepared for:

Jacobi, Toombs, and Lanz, Inc.

June 4th, 2021

Prepared by:



Complex Environment. Creative Solutions.

6971 Hillsdale Court
Indianapolis, IN 46256
Telephone: 317.400.1633
www.metricenv.com

**WATERS DELINEATION REPORT
Floyd County Bridge No. 51
Des. No. 1700788**

**New Albany Township, Floyd County and Jeffersonville Township, Clark County, Indiana
Prepared By: April Pape and Zachary Root
June 4, 2021**

TABLE OF CONTENTS

1.0	Introduction	1
2.0	Project Description.....	1
2.1	Purpose	1
2.2	Regulatory Definitions	2
2.2.1	<i>Waters of the U.S</i>	2
2.2.2	<i>Waters of the State</i>	2
2.2.3	<i>Wetlands</i>	2
3.0	Background Information – Existing Maps	3
3.1	USGS 7.5-minute Topographic Map.....	3
3.2	USDA-NRCS Soil Survey Maps.....	4
3.3	USFWS National Wetlands Inventory (NWI) Map.....	4
3.4	Flood Insurance Rate Map (FIRM)	4
3.5	USGS National Hydrography Dataset (NHD) Map.....	5
4.0	Wetland and Stream Delineation Methodology.....	5
5.0	Results.....	6
5.1	Wetlands	6
5.2	Upland Sampling Points	7
5.3	Streams	9
6.0	Conclusion.....	10
7.0	References	12

Exhibits

Exhibit 1 – Location Map

Exhibit 2 – USGS Topographic Map

Exhibit 3 – Flood Insurance Rate Map

Exhibit 4 – National Wetlands Inventory (NWI) and USGS National Hydrography Dataset (NHD) Map

Exhibit 5 – Natural Resources Conservation Service (NRCS) Soil Survey Map

Exhibit 6 – Waters Delineation Map

Exhibit 7 – Photo Location Map

Appendices

Appendix A – Wetland Determination Data Sheets

Appendix B – HHEI/QHEI Data Forms

Appendix C – Site Photographs

1.0 INTRODUCTION

Metric Environmental, LLC (Metric) was contracted to perform a determination of the presence of Waters of the United States (U.S.) and/or Waters of the State within the project study limits of the proposed bridge replacement project. The proposed project is located in New Albany Township, Floyd County and Jeffersonville Township, Clark County, Indiana as shown on **Exhibit 1**. The site investigation, conducted by Cory Shumate on May 14, 2020, found one wetland totaling 0.011 ac. and three streams totaling 899 linear feet (LFT) located within the project study limits (PSL). An additional site investigation, including some additional area in the southeast portion of the site, took place on May 11, 2021. No additional waters features were found in this additional area.

2.0 PROJECT DESCRIPTION

The project is located on Blackiston Mill Road, over Silver Creek, 0.20 mile east of Payne Koehler and extends 1,860 ft. southeast along Blackiston Mill Road to its intersection with Starlight Dr. in Clarksville, Clark County, Indiana. A location map showing the project location is provided as **Exhibit 1** and a USGS New Albany, Indiana Quadrangle Topographic Map is provided as **Exhibit 2**. The existing two span 176 feet (ft.) long structure is a pre-stressed concrete stringer/multi beam or girder bridge, in New Albany from Charlestown Road to Blackiston Boulevard consists of three 11 foot (ft.) wide lanes with 2 ft. curb and gutter on each side. It transitions to a rural two-lane road east of Blackiston Boulevard with 11 ft. wide lanes and no shoulders. The southeast approach to the bridge is also a rural two-lane road with 11 ft. wide lanes and no shoulders. Guardrails are present; however, no sidewalks are provided in either direction. The posted speed limit on Blackiston Mill Road is 30 miles per hour (mph). Land use in the vicinity of the project is primarily commercial with few residential homes.

The need for this project is evident by the deteriorating condition of the existing structure as noted in the most recent Bridge Inspection Report, dated March 20, 2019. The bridge deck exhibited hairline cracks and efflorescence. The wearing surface exhibited cracks throughout. The superstructure exhibited open joints between stones and erosion. The structure was rated 4 out of 9 possible points, indicating poor condition. The northwest approach of Blackiston Mill Road to the bridge has a steep vertical profile grade and substandard horizontal curve. The southeast approach to the bridge is lower in elevation than the existing bridge; therefore, it floods frequently due to the backwater from the Ohio River, causing the road to be closed to traffic.

The proposed improvements include realigning Blackiston Mill Road and constructing a new bridge across Silver Creek. The preferred alternative is to realign Blackiston Mill Road beginning just east of Blackiston Boulevard near Silverwood Court by shifting the roadway to the north and curving to the southeast as it approaches a new bridge over Silver Creek. The new bridge will be located upstream of the existing dam on Silver Creek, and it will be a 215 ft. long, three-span concrete bridge. The bridge will have two 12 ft. wide lanes with curbs, gutters, and 6 ft. wide sidewalks on both sides. East of the new bridge Blackiston Mill Road will continue to curve to the southeast until Walnut Grove Drive, at which point Blackiston Mill Road will return to its existing alignment. The roadway east of the bridge will be raised from its current elevation of 438 ft. to 442 ft. above sea level to meet the 25-year flood elevation. The lane widths on Blackiston Mill Road will be reduced from 12 ft. to 11 ft. to provide a 6 ft. wide sidewalk adjacent to the back of the curb and gutter on each side of the road. Existing curb and gutter will also be replaced. Silverwood Court will be realigned to improve sight distance at the intersection with the realigned Blackiston Mill Road. The drives on the south side of the road east of the bridge will be lengthened to the south due to the proposed new roadway being raised to prevent flooding.

It is anticipated that approximately 5.61 acres of new permanent right-of-way and 4.73 acres of compensatory excavation (permanent easement) will be acquired from commercial, residential, and two public streets that are unrecorded plats, to realign Blackisiton Mill Road and bridge construction. Approximately 0.59 acre of temporary right-of-way will be required for drive construction, lawn grading, and road and bridge removal. Relocation of one residence will be required and two commercial buildings will need to be acquired.

The objective of this investigation is to identify and delineate the Waters of the U.S. and Waters of the State, including wetlands, streams, and ponds, located within the proposed project study limits. This report identifies the Waters of the U.S. as defined by the U.S. Army Corps of Engineers (USACE) regulations and guidance documents, as well as, Waters of the State and wetlands as defined by the State of Indiana rules and regulations.

2.1 Regulatory Definitions

2.1.1 Waters of the U.S.

The definition of Waters of the U.S. includes Traditional Navigable Waters (TNWs) of the U.S. and adjacent wetlands, non-navigable tributaries to TNWs, and wetlands that directly abut such tributaries (Department of the Army, Corps of Engineers and Environmental Protection agency, 2015). The USACE has jurisdiction over all navigable Waters of the U.S. under the Rivers and Harbors Act of 1899. The USACE also regulates the placement of dredged or fill materials into Waters of the U.S. under Section 404 of the federal Clean Water Act (CWA). Section 404 of the CWA defines the landward limit for non-tidal waters as the Ordinary High Water Mark (OHWM). When adjacent wetlands are present, the limit of jurisdiction extends to the limit of the wetland. Depositing dredge or fill materials into wetlands or other Waters of the U.S. requires written permission through the USACE Section 404 permit process.

2.1.2 Waters of the State

Waters of the State are defined as surface and underground waterbodies, which exist wholly in the State (IDEM, 2016). Private ponds, reservoirs, or facilities built for reduction of pollutants prior to discharge are not included in this definition. In Indiana, two government agencies have jurisdiction over Waters of the State: Indiana Department of Environmental Management (IDEM) and the USACE. IDEM is responsible for maintaining, protecting, and improving the physical, chemical, and biological integrity of Indiana's waters. IDEM administers the Section 401 Water Quality Certification (WQC) Program, and draws its authority from the federal CWA and Indiana's Water Quality Standards. Any person who wishes to place fill materials, excavate or dredge, or mechanically clear within a wetland, lake, river, stream, or other Waters of the State, must first apply for a CWA Section 404 permit through USACE and a Section 401 WQC permit through IDEM. If a Waters of the State is determined to be non-jurisdictional by the USACE, these waters are regulated by IDEM under the State Isolated Wetlands Law and a State Isolated Wetlands Permit may be required.

2.1.3 Wetlands

Wetlands are a category of Waters of the U.S. for which a specific identification methodology has been developed. Wetlands are identified using three criteria: hydrophytic vegetation, hydric soils, and wetland hydrology. Isolated wetlands, or those waters no longer subject to regulation under the CWA, are regulated under Indiana Code (IC) 13-18-22 and 327 Indiana Administrative Code (IAC) 17. This statute creates a category of Waters of the State known as State Regulated Wetlands, which are defined as wetlands as delineated under the *Corps of Engineers Wetlands Delineation Manual ("Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0), August 2010)* and

are considered isolated and not subject to federal law. Isolated wetlands and waters not regulated under CWA Section 404 in the state of Indiana are still regulated under Indiana’s State Isolated Wetland Law. Any person who wishes to place fill materials, excavate or dredge, or mechanically clear within a wetland, lake, river, stream, or other Waters of the State not federally regulated, must apply for and obtain a State Isolated Wetland Permit (IDEM, 2016). For the purposes of expediting the review of the wetlands identified for this project, all wetlands are assumed to be jurisdictional Waters of the U.S. and subject to regulation by the USACE.

3.0 BACKGROUND INFORMATION – EXISTING MAPS

The initial steps in the wetland determination process include a review of documents that provide information on areas where wetlands have been previously identified or that possess a high likelihood of containing wetlands. Several sources of information were consulted to help identify potential jurisdictional areas within the survey boundaries. These resources included:

- U.S. Geological Survey (USGS) 7.5 Minute Topographic Map (New Albany, IN Quadrangle, 1996)
- U.S. Department of Agriculture (USDA), National Resources Conservation Service (NRCS), Soil Survey Maps (Floyd and Clark Counties, Indiana)
- U.S. Fish and Wildlife Services (USFWS) National Wetlands Inventory (NWI) Map
- U.S. Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM)
- USGS National Hydrography Dataset (NHD) Map

A review of the USGS topographic map allowed for interpretation of slopes and the identification of potential Waters of the U.S. within the survey boundary.

Published soil surveys for Floyd and Clark Counties in Indiana were reviewed to identify listed hydric soils and/or potential inclusions of hydric soils. Identified areas containing hydric soils were evaluated against other data collected to identify potential wetland areas. The county soils survey maps were developed from actual field investigations. However, they address only one of the three required wetland criteria (hydric soils) and may reflect historical conditions rather than current site conditions. The resolution of soil maps limits their accuracy as well. The mapping units are often generalized based on topography and many mapping units contain inclusions of other soil types for up to 15% of the area of the unit.

The NWI maps were developed to identify probable wetland areas and are mapped on USGS 7.5-minute quadrangle maps. The NWI maps were prepared from high-altitude photography and in most cases were not field checked. There are several limitations to the quality of this data. Therefore, the NWI maps should not be used as a sole determination to identify potential wetlands.

FIRM maps were developed to identify areas subject to flood hazards. These maps identify areas located within a flood zone, which may contain wetlands.

3.1 USGS 7.5-minute Topographic Map

Geographically, the PSL is located in Section 63; Township 99; Range 99. **Exhibit 2** includes the USGS New Albany, Indiana Quadrangle Topographic Maps. The flow regime of field-identified streams was verified using the topographic maps, with perennial streams verified as solid blue lines on the map, intermittent



streams verified as dashed blue lines on the map, and ephemeral streams verified where no blue lines were present on the map. During a review of the USGS topographic maps, one waterway, Silver Creek, was identified by solid blue line within the PSL as listed in **Table 1**. Two additional streams, UNT 1 to Silver Creek and UNT 2 to Silver Creek, were identified in the field but were not identified on the USGS 7.5-minute topographic maps, indicating these streams were likely ephemeral, however upon field investigation UNT 2 to Silver Creek was determined to be an intermittent stream.

Table 1: USGS Topographic Map Identified Streams within Project Study Limits

Stream Name	Field Identified Stream	Flow Regime
Silver Creek	Stream 1	Perennial

Source: USGS 1996

3.2 USDA-NRCS Soil Survey Maps

The NRCS Web Soil Survey (USDA-NRCS, 2019) soil map and soil data for Floyd and Clark Counties were compared against the National and State of Indiana Hydric Soils lists in order to assess the location of hydric soils. The soil map is provided as **Exhibit 5**. **Table 2** identifies the soil unit symbol, map unit name, and hydric soil rating. Four nationally listed soil units were identified within the PSL: Haymond silt loam (HcgAH), Urban land-Aquents (UedA), Urban land-Udarents (UngB), and Water (W).

Table 2: Soil Map Unit Legend – Soil Map Units within Project Study Limits

Symbol	Map Unit Name	Hydric Rating (%)
HcgAH	Haymond silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	Not Hydric (0)
UedA	Urban land-Aquents, clayey substratum, complex, lake plain, 0 to 3 percent slopes	Hydric (8)
UngB	Urban land-Udarents, fragipan substratum, complex, till plain, 0 to 12 percent slopes	Not Hydric (0)
W	Water	N/A

Source: USDA-NRCS Web Soil Survey 2019, National Hydric Soils List

3.3 USFWS National Wetlands Inventory (NWI) Map

The NWI map of the area included in **Exhibit 4** was retrieved from the USFWS NWI website (USFWS, 2016). The NWI map shows one wetland resource within the project study limits. It is a Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded (R2UBH) wetland. The nearest NWI polygon not located within the PSL is approximately 79 ft. west of the PSL and is classified as a Palustrine, Forested, Persistent, Temporarily Flooded (PFO1A) wetland.

3.4 Flood Insurance Rate Map (FIRM)

The FIRM map of the area, **Exhibit 5** was retrieved from the FEMA website (FEMA, 2018). A mapped floodplain enters the PSL and was associated with Silver Creek. These areas are identified as a mapped Flood Zone AE, which correspond to the 100-year floodplain or 1 percent annual chance of flooding. The water resources identified within the mapped floodplain are listed in **Table 3**.

Table 3: 100-Year Floodplain within the Survey boundary

Flood Zone Code	Water Resource Associated with Floodplain	Identified Water Resources in Floodplain
AE	Silver Creek	Stream 1

Source: FEMA, 2018

3.5 USGS National Hydrography Dataset (NHD) Map

The NHD map of the area, **Exhibit 4**, was retrieved from the USGS website. Three NHD flowlines were located within PSL. **Table 4** identifies the corresponding feature, NHD flowline classification, photos, and associated USGS Blue line. Photos referenced in **Table 4** are shown in **Exhibit 7**.

Table 4: NHD Flowlines within the Survey boundary

Corresponding Feature	NHD Flowline Classification	Photo Nos.	USGS Blue Line
Silver Creek	Artificial Path	18-24, 26-38, 40, 43-47	Yes
UNT 1 to Silver Creek	Stream/River	50-56	No
None	Stream/River	68	No

4.0 WETLAND AND STREAM DELINEATION METHODOLOGY

For the purpose of identifying wetlands regulated under Section 404 and 401 of the CWA, wetland determinations were made using the three criteria of assessment approach defined in the *1987 U.S. Army Corps of Engineers' Wetland Delineation Manual* and the *Midwest Regional Supplement "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)"*. According to the procedure described in the manual, areas that reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology are considered wetlands.

Streams were identified based on the presence of an OHWM as defined in 33 CFR 328.3(3) as the "line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas." Once identified, streams were assessed using the Ohio EPA Primary Headwater Habitat Evaluation Index (HHEI) as described in the *Ohio EPA Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams (Version 2.3) (October, 2009)* or Qualitative Habitat Evaluation Index (QHEI) as described in the *Ohio EPA Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index (June, 2006)* to determine overall stream aquatic habitat quality. Streams with a drainage area of less than one square mile or a maximum pool depth less than 40 cm were evaluated using the HHEI assessment and streams with a drainage area greater than one square mile or a pool depth greater than 40 cm were evaluated using the QHEI.

A reconnaissance (waters delineation) was conducted to determine the general topography, plant communities, soils, and hydrology present within the survey boundary. Areas identified as either Waters

of the U.S. or Waters of the State were delineated and mapped using a Trimble Geo7X handheld GPS unit with submeter accuracy.

5.0 RESULTS

The field reconnaissance was conducted on May 14, 2020 and on May 11, 2021 by Cory Shumate and Zachary Root of Metric. The site was investigated for evidence of hydrophytic vegetation, hydric soil, and wetland hydrology, with sampling points (SP) being dug in areas suspected of being wetlands as shown on **Exhibit 6**. Upland areas where sampling points were not taken, were investigated, and determined to be upland due to upward sloping topography and/or presence of dominant upland vegetation. Dominant upland species observed within these upland areas included tall false rye grass (*Schedonorus arundinaceus*, FACU), red fescue (*Festuca rubra*, FACU) sugar maple (*Acer saccharum*, FACU), and northern red oak (*Quercus rubra*, FACU). Data was recorded on wetland determination data sheets from the USACE Midwest Regional Supplement and are included in **Appendix A**. Streams identified within the project study limits were evaluated using the HHEI and QHEI stream assessments. HHEI and QHEI data sheets are provided in **Appendix B**. A photograph location map is provided as **Exhibit 7** and site photographs are provided in **Appendix C**. The photographs are visual documentation of site conditions at the time of the inspection and are intended to provide representative visual examples of the features found on the site.

5.1 Wetlands

A pair of sampling points was taken in an area that was determined to be wetland. **Table 5** lists this pair of sampling points associated with Wetland A. A description of each of these sampling points is provided below.

Table 5: Sampling Point Data Summary Table

Plot #	Photo Points	Lat/Long	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within a Wetland
SP-A1	1-3	38.335269 -85.795222	Yes	Yes	Yes	Yes, Wetland A
SP-A2	4-6	38.335124 -85.79513	No	No	No	No

Wetland A (0.011 ac.)

Wetland A was classified as a Palustrine, Scrub-Shrub, Broad-Leaved Deciduous, Temporarily Flooded (PSS1A) wetland. This wetland was located in a depression that is a stormwater detention basin for adjacent commercial properties north of the intersection of Blackiston Mill Road and Silverwood Ct. Wetland A was 0.011 ac. and wholly contained within the PSL. The boundaries of Wetland A were delineated by a lack of wetland vegetation and increased elevation. The wetland likely receives drainage on a consistent basis during rain events. This wetland was not associated with a mapped NWI unit and was wholly contained within the UngB mapped soil unit which is listed as not hydric. Based upon that and that the wetland was not abutting a jurisdictional Water of the U.S., Wetland A should be considered an isolated wetland and thus a Waters of the State. Wetland A is located adjacent to a commercial property, residential property, and road, and likely receives run-off from these sources. In addition, the wetland exhibited low plant species diversity. These factors contribute to the conclusion that this wetland does not support significant wildlife or aquatic habitat, and therefore should be considered to be of poor quality. Descriptions of the sampling points for Wetland A are provided below.

Sampling Point A1 (SP-A1) – Wetland A

SP-A1 was located in a depression north of Silverwood Ct. Dominant vegetation at this sampling point included black willow (*Salix nigra*, OBL) in the tree stratum, black willow (*Salix nigra*, OBL) and green ash (*Fraxinus pennsylvanica*, FACW) in the sapling/shrub stratum, and lamp rush (*Juncus effusus*, OBL) and eastern woodland sedge (*Carex blanda*, FAC) in the herb stratum. This passed hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (1.37). To a depth of 20 inches, the soils in the test pit were a silty clay loam. From 0 to 5 in., the soil exhibited mixed matrix colors of 10YR 4/2 (45 percent) and 10YR 5/2 (45 percent) with 10YR 6/8 (10 percent) prominent redox concentrations in the matrix. From 5 to 16 in., the soil exhibited a matrix color of 10YR 5/2 (65 percent) with 10YR 6/8 (30 percent) prominent redox concentrations in the matrix and 2.5YR 3/6 (5 percent) prominent redox concentrations along pore linings. From 16 to 20 in., the soil exhibited a matrix color of 10YR 5/2 (60 percent) with 10YR 6/8 (20 percent) prominent redox concentrations in the matrix and 2.5YR 3/6 (20 percent) prominent redox concentrations along pore linings. The soil met the hydric soil criterion for depleted matrix (F3). Primary indicators of wetland hydrology observed include surface water (A1), high water table (A2), saturation (A3), and oxidized rhizospheres on living roots (C3). Secondary wetland hydrology indicators observed include geomorphic position (D2) and FAC-neutral test (D5). Since all three required wetland criteria were met, this area qualified as a wetland.

Sampling Point A2 (SP-A2) – Wetland A upland

SP-A2 was located on a hillslope north of Silverwood Ct. Dominant vegetation at this sampling point included honey-locust (*Gleditsia tricanthos*, FACU) in the tree stratum, red fescue (*Festuca rubra*, FACU) and Kentucky bluegrass (*Poa pratensis*, FAC) in the herb stratum, and poison ivy (*Toxicodendron radicans*, FAC) in the woody vine stratum. This did not meet the criteria for hydrophytic vegetation. To a depth of 20 inches, soils in the test pit were a silty clay loam. From 0 to 10 in., the soil exhibited mixed matrix colors of 10YR 4/2 (50 percent) and 10YR 5/3 (45 percent) with 10YR 6/8 (5 percent) prominent redox concentrations in the matrix. From 10 to 20 in., the soil exhibited mixed matrix colors of 10YR 4/2 (25 percent), 10YR 5/3 (35 percent), and 10YR 4/1 (25 percent) with 10YR 6/8 (10 percent) prominent redox concentrations in the matrix and 10YR 4/3 (5 percent) faint redox concentrations in the matrix. This did not meet any indicators for hydric soil. No primary or secondary indicators of wetland hydrology were observed. Since none of the three required wetland criteria were met, this area did not qualify as wetland.

5.2 Upland Sampling Points

Three upland sampling points were taken in the PSL in areas that were suspected of being wetlands. These sampling points did not qualify as wetlands as they did not meet all three of the required wetland criteria.

Table 6 lists the sampling points that were taken but were not associated with wetlands. A description of each of these upland sampling points is provided below.

Table 6: Sampling Point Data Summary Table

Plot #	Photo Points	Lat/Long	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within a Wetland
SP-1	9-11	38.334962 -85.795171	No	Yes	No	No
SP-2	12-14	38.334061 -85.79414	Yes	No	No	No
SP-3	15-17	38.333905 -85.79446	Yes	No	No	No

SP-4	147-149	38.333816 -85.793197	No	No	No	No
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Sampling Point 1 (SP-1)

SP-1 was located at the toe of a hillslope south of Silverwood Ct. and east of UNT 2 to Silver Creek. Dominant vegetation at this sampling point included black cherry (*Prunus serotina*, FACU) in the sapling/shrub stratum and eastern woodland sedge (*Carex blanda*, FAC) and red fescue (*Festuca rubra*, FACU) in the herb stratum. This did not meet any indicators of hydrophytic vegetation. To a depth of 20 in., the soils in the test pit were a silty clay loam. From 0 to 12 in., the soil exhibited a matrix color of 10YR 4/2 (90 percent) with 10YR 5/6 (10 percent) prominent redox concentrations in the matrix. From 12 to 20 in., the soil exhibited mixed matrix colors of 10YR 5/1 (50 percent) and 10YR 5/4 (50 percent). This met the hydric soil indicator of depleted matrix (F3). No primary indicators of wetland hydrology were observed. The secondary indicator of geomorphic position (D2) was observed. This did not satisfy the criteria for wetland hydrology. Since this sampling point only met one of the three required criteria, it did not qualify as a wetland.

Sampling Point 2 (SP-2)

SP-2 was located within the southern floodplain of Silver Creek and east of Blackiston Mill Rd. Dominant vegetation at this sampling point included American sycamore (*Platanus occidentalis*, FACW) and green ash (*Fraxinus pennsylvanica* FACW) in the tree stratum, ash-leaf maple (*Acer negundo*, FAC) in the sapling/shrub stratum, late goldenrod (*Solidago gigantea*, FACW) and hooded blue violet (*Viola sororia*, FAC) in the herb stratum, and rambler rose (*Rosa multiflora*, FACU) in the woody vine stratum. This met the hydrophytic vegetation indicators of dominance test (83 percent) and prevalence index (2.32). To a depth of 20 in., the soils in the test pit were a silt loam and exhibited mixed matrix colors of 10YR 4/2 (50 percent) and 10YR 5/3 (50 percent). This did not meet any hydric soil indicators. No primary indicators of wetland hydrology were observed, and one secondary indicator, FAC-neutral test (D5), was observed. This did not satisfy the criteria for wetland hydrology. Since this sampling point only met one of the three required criteria, it did not qualify as a wetland.

Sampling Point 3 (SP-3)

SP-3 was located within the floodplain of Silver Creek, south of Silver Creek and east of Blackiston Mill Rd. Dominant vegetation at this sampling point included ash-leaf maple (*Acer negundo*, FAC) and American sycamore (*Platanus occidentalis*, FACW) in the tree stratum; ash-leaf maple (*Acer negundo*, FAC) and American elm (*Ulmus americana*, FACW) in the sapling/shrub stratum; late goldenrod (*Solidago gigantea*, FACW), spotted touch-me-not (*Impatiens capensis*, FACW), and hooded blue violet (*Viola sororia*, FAC) in the herb stratum; and wintercreeper (*Euonymus fortunei*, UPL) and rambler rose (*Rosa multiflora*, FACU) in the woody vine stratum. This met the hydrophytic vegetation indicators of dominance test (78 percent) and prevalence index (2.97). The soil in the test pit was a silty loam to a depth of 20 in. From 0 to 14 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). From 14 to 17 in., the soil exhibited a matrix color of 10YR 4/2 (90 percent) with 10YR 6/8 (10 percent) prominent redox concentrations in the matrix. From 17 to 20 in., the soil exhibited mixed matrix colors of 10YR 4/2 (50 percent) and 10YR 6/8 (50 percent). This did not meet any hydric soil indicators. No primary indicators of wetland hydrology were observed, and one secondary indicator, FAC-neutral test (D5), was observed. This did not satisfy the criteria for wetland hydrology. Since this sampling point only met one of the three required criteria, it did not qualify as a wetland.



Sampling Point 4 (SP-4)

SP-4 was located within the floodplain of Silver Creek, south of Silver Creek and north of Blackiston Mill Rd. Dominant vegetation at this sampling point included ash-leaf maple (*Acer negundo*, FAC) in the tree stratum and white oldfield American-Aster (*Symphotrichum pilosum*, FACU), in the herb stratum. This did not meet any of the hydrophytic vegetation indicators. The soil in the test pit was a silty loam to a depth of 10 in. with a restrictive layer of gravel at 10 in. From 0 to 6 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). From 6 to 10 in., the soil exhibited a matrix color of 10YR 4/2 (70 percent) with 10YR 4/3 (30 percent) faint redox concentrations in the matrix. This did not meet any hydric soil indicators. No indicators of wetland hydrology were observed. Since this sampling point did not meet any of the three required criteria, it did not qualify as a wetland.

5.3 Streams

Three streams, Silver Creek, Unnamed Tributary (UNT) 1 to Silver Creek, and UNT 2 to Silver Creek, were observed within the project study limits during the field reconnaissance. **Table 6** lists the streams identified during the site investigation.

Table 6: Streams located within the Project Study Limits

Stream Name	Photo #s	Lat/Long	OHWB Width	OHWB Depth (ft.)	USGS Blue-line	HHEI/QH EI Score	Potential Stream Impact (ft.)
Silver Creek	18-24, 26-38, 40, 43-47	38.33434 -85.79447	135 ft. +/-	4.8 ft. +/-	Yes (Perennial)	62.5 (Good)	337
UNT 1 to Silver Creek East	50-56	38.33484 -85.79427	46.7 in. +/-	2.3 in. +/-	No line (Ephemeral)	70 (Modified Class II PWH)	215
UNT 2 to Silver Creek West	58-64	38.3348 -85.79499	26.4 in. +/-	1.0 in. +/-	No line (Intermittent)	41 (Modified Class II PWH)	347

Silver Creek – 337 LFT

Silver Creek flowed from east to west and is approximately 337 LFT (1.044 ac.) long within the PSL. Silver Creek flows into the Ohio River, a Section 10 TNW. Therefore, Silver Creek should be considered a jurisdictional Water of the U.S. The stream is associated with a solid blue line on the USGS topographic map, indicating it has perennial flow. This stream was associated with an NWI polygon, and was classified as a Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded (R2UBH) stream. The OHWB was 135 ft. wide and 4.8 ft. deep within the PSL. The stream substrate consisted of cobble, gravel, bedrock, silt, and artificial substrate, with gravel and silt being predominant. In-stream cover consisted of undercut banks, overhanging vegetation, shallows, pools, rootwads, oxbows, aquatic macrophytes, and logs/woody debris. Sinuosity was low, development was fair, and there was moderate stability. The water velocity was fast with a moderate gradient. Functional riffles and pools were observed. Fish, crayfish, and dead mussels were observed in the stream. According to the USGS *Indiana StreamStats*, the drainage area upstream of Silver Creek at the PSL is 212 square miles. This stream had a QHEI score of 62.5, which classifies it as good.

Floyd County Bridge No. 51

Des. No. 1700788

Waters Delineation Report

Floyd and Clark Counties, Indiana

Metric Project No. 18-0145

UNT 1 to Silver Creek –215 LFT

UNT 1 to Silver Creek flowed from north to south and is approximately 215 LFT (0.019 ac.) within the PSL. UNT 1 to Silver Creek flows into Silver Creek, a jurisdictional Water of the U.S. Therefore, UNT 1 to Silver Creek should be considered a jurisdictional Water of the U.S. The stream is not associated with a line on the USGS topographic map, indicating it is an ephemeral stream. Rain data collected found that the area had received 0.09 inches of rain between 5/12/20 to 5/14/20. Field data indicates that it rained from 9:30 - 10:00 am on the date of the field investigation, indicating that the photos show more water than what normally occurs. The second site visit on May 11th 2021 noted significantly less flow suggesting an ephemeral stream. UNT 1 to Silver Creek was not classified by the NWI, but it can be classified as Riverine, Ephemeral stream, Corps designation R6. The OHWM was 47 in. wide and 2.3 in. deep within the PSL. The stream substrate consisted of boulder slabs, bedrock, cobble, gravel, and silt, with bedrock and silt being predominant. The stream had moderate sinuosity and a moderate to severe gradient. No aquatic organisms were found in the stream. The floodplain consisted of mature forest on both sides of the stream. The water in stream was discolored and appeared orange in color. The source of the discoloration was outside the PSL and currently unknown. Since the stream was not mapped on USGS *Indiana StreamStats*, the drainage area upstream of the PSL is assumed to be less than 1 square mile. This stream had an HHEI score of 70, which classifies it as a Modified Class II Primary Headwater Habitat (PHWH).

UNT 2 to Silver Creek - 347 LFT

UNT 2 to Silver Creek flowed southeast from Culvert (CV) 6 and is approximately 347 LFT (0.017 ac.) long within the PSL. UNT 2 to Silver Creek flows into Silver Creek, a jurisdictional Water of the U.S. Therefore, UNT 2 to Silver Creek should be considered a jurisdictional Water of the U.S. The stream is not associated with a line on the USGS topographic map. Rain data collected found that the area had received 0.09 inches of rain between 5/12/20 to 5/14/20. Field data shows that it only rained from 9:30 - 10:00 am on the date of the field investigation, indicating that the level of water present in the stream could not be attributed to precipitation alone. The second site visit on May 11th 2021 noted saturation as well. These observations in conjunction with the fact that UNT 2 to Silver Creek receives waters from a stormwater culvert, a stormwater basin, and likely a wetland upstream of the project area indicates that it is an intermittent stream. UNT 2 to Silver Creek was not classified by the NWI, but it can be classified as Riverine, intermittent stream, Corps designation R4. The OHWM was 26 in. wide and 1 in. deep within the PSL. The stream substrate consisted of cobble, gravel, silt, and artificial substrate, with gravel and silt predominant. The stream channel had high sinuosity and a moderate to severe gradient. No aquatic organisms were found in the stream. Since the stream was not mapped on USGS *Indiana StreamStats*, the drainage area upstream of UNT 2 to Silver Creek is assumed to be less than 1 square mile. This stream had an HHEI score of 41, which classifies it as a Modified Class II PHWH.

6.0 CONCLUSION

One isolated PFO1A wetland totaling 0.011 ac. and three streams totaling 899 LFT (1.08 ac.) were identified with the PSL. Table 7 lists the wetlands and streams identified and the corresponding acres and linear feet of stream located within the PSL.

Table 7: Water Resources Identified within Project Study Limits

Type of Waters	Name	Cowardin Class/ Flow Regime	Estimated Amount of Aquatic Resource in Project Study Limits	Jurisdictional Waters of the U.S.
Wetland	Wetland A	PSS1A	0.011 acre	No
Stream	Silver Creek	Perennial	337 LFT, 1.044 acre	Yes
	UNT 1 to Silver Creek	Ephemeral	215 LFT, 0.019 acre	Yes
	UNT 2 to Silver Creek	Intermittent	347 LFT, 0.017 acre	Yes

A waters delineation was completed for the proposed Floyd County Bridge No. 51 project. Three of the four water resources identified within the PSL appear to be jurisdictional Waters of the U.S. Every effort should be taken to avoid and minimize impacts to the wetlands and waterways. If any wetlands or streams will be impacted by this project, permits will be required by the USACE and IDEM. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by USACE.

7.0 REFERENCES

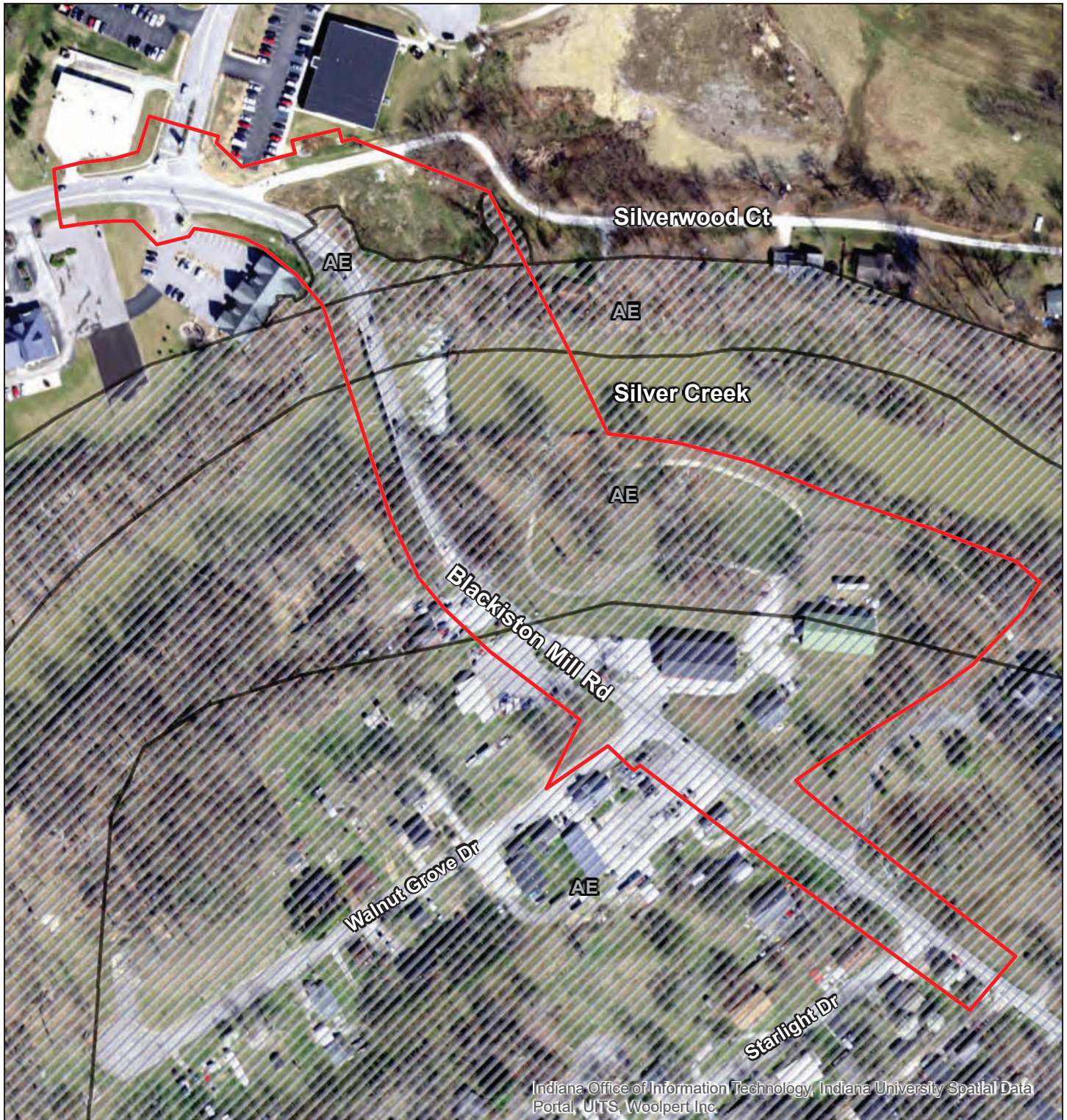
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Duplicate maps and photographs 25-56 and 61-149 are included in Appendix B of the EA document.





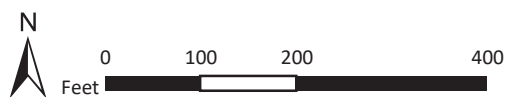
-  Project Study Limits (PSL)
-  Floodplain - Zone AE - 1% Chance Annual Flood

Exhibit 3 - FEMA Flood Insurance Rate Map
 Floyd County Bridge No. 51
 Bridge Replacement
 Floyd and Clark Counties, Indiana
 Des. No. 1700788
 Metric Project No. 18-0145
 Map Date: 6/25/20
 Map Author: April Pape

All locations approximate
 Source: Indiana Spatial Data Portal (2017)



Exh. 3

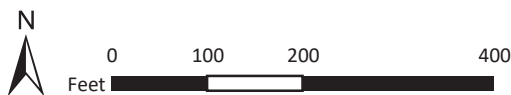


Project Study Limits (PSL)
 NWI Wetland

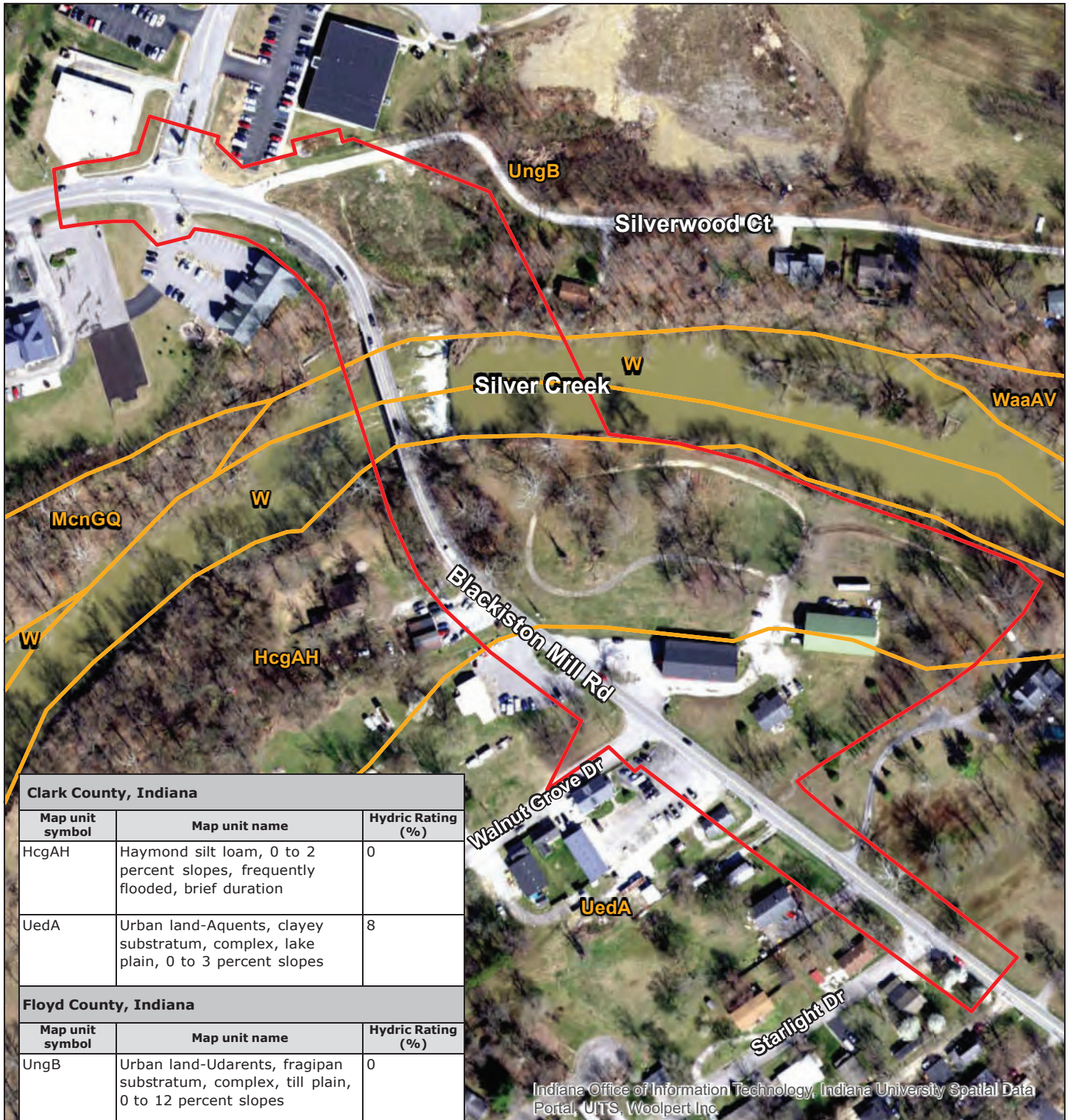
 NHD Flowline

Exhibit 4 - NWI Wetland and NHD Flowline Map
 Floyd County Bridge No. 51
 Bridge Replacement
 Floyd and Clark Counties, Indiana
 Des. No. 1700788
 Metric Project No. 18-0145
 Map Date: 6/25/20
 Map Author: April Pape

All locations approximate
 Source: Indiana Spatial Data Portal (2017)



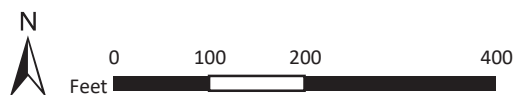
Exh. 4

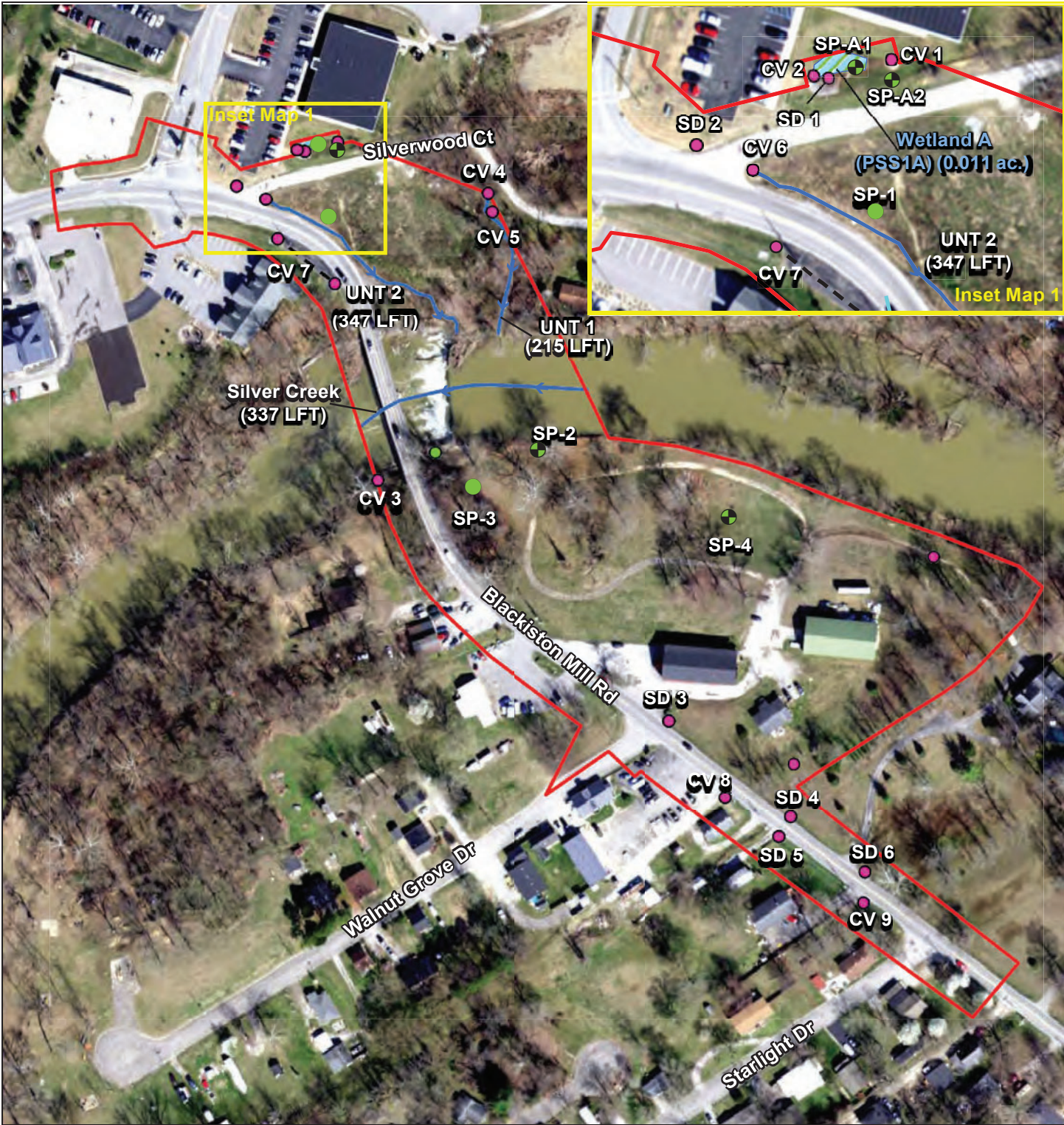


- Project Study Limits (PSL)
- NRCS Soil Survey

Exhibit 5 - NRCS Soil Survey Map
 Floyd County Bridge No. 51
 Bridge Replacement
 Floyd and Clark Counties, Indiana
 Des. No. 1700788
 Metric Project No. 18-0145
 Map Date: 6/25/20
 Map Author: April Pape

All locations approximate
 Source: Indiana Spatial Data Portal (2017)

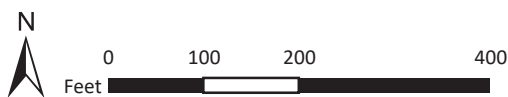




- Project Study Limits (PSL)
- Culvert (CV)/Storm Drain (SD) Opening
- Stream
- Wetland
- Stream Oxbow Feature
- Sampling Point (SP)
- Culvert (CV)

Exhibit 6 - Waters Delineation Map
 Floyd County Bridge No. 51
 Bridge Replacement
 New Albany Township, Floyd County and Jeffersonville
 Township, Clark County, Indiana
 Des. 1700788
 Metric Project No. 18-0145
 Map Date; 6/25/20
 Map Author: April Pape

All locations approximate
 Source: Indiana Spatial Data Portal (2017)



Exh. 6



- Project Study Limits (PSL)
- Stream

Exhibit 6 - Waters Delineation Map
 Floyd County Bridge No. 51
 Bridge Replacement
 New Albany Township, Floyd County and Jeffersonville
 Township, Clark County, Indiana
 Des. 1700788
 Metric Project No. 18-0145
 Map Date: 6/25/20
 Map Author: April Pape

All locations approximate
 Source: Indiana Spatial Data Portal (2017)



Exh. 8