



State Revolving Fund Loan Programs

Drinking Water, Clean Water, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

COLUMBUS CITY UTILITIES WOODSIDE PHASE 2 – ADDENDUM 1 SRF PROJECT WW 22 56 03 08

DATE: October 28, 2024

I. INTRODUCTION

The above entity has applied to the Clean Water State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the Clean Water project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed in color at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FONSI)

The SRF Wastewater Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 5-1.2-3, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FONSI. Comments must be received at the address below by the target approval date above. Significant comments may prompt a reevaluation of the preliminary FONSI; if appropriate, a new FONSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FONSI as appropriate. Comments regarding this document should be sent within 30 days to:

Jenni Curry
Environmental Review Manager
State Revolving Fund
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
463-261-6943
jecurry@ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address: Woodside Phase 2– Addendum 1
Columbus City Utilities
1111 McClure Road
Columbus, IN 47201

SRF Project Number: **WW 22 56 03 08**

Authorized Representative: Roger Kelso, Executive Director

II. PROJECT LOCATION

Located in is located in Bartholomew County, Wayne Township, Columbus 24k USGS Quadrangle, Township 8N, Range 5E and sections 14 and 15. See **Figure 1B**.

III. PROJECT NEED AND PURPOSE

The current sewer service could support limited development in the Woodside South and Walesboro areas, but the existing lift stations need to be replaced or upgraded to serve future development. These areas anticipate future industrial and residential growth over the next 20 years.

IV. PROJECT DESCRIPTION

The Woodside South Lift Station was last upgraded in 1989 and needs rehabilitation due to age and condition. Additionally, flows within both the Woodside South and Walesboro lift station basins are anticipated to exceed existing capacity within the 20-year planning period.

Alternatives were evaluated for a range of flow projections. Given the variability of industrial flow projections, alternatives were selected to meet mid-term capacity needs for the lift station basins. The proposed project will extend the useful life of the lift stations and meet capacity needs in accordance with CCU's master planning.

The proposed project includes:

- Woodside South Lift Station improvements to increase lift station capacity, including wet well modifications, new pumps, piping, and valves, new electrical and control components, and site improvements.
- Walesboro Lift Station improvements to increase lift station capacity, including wet well modifications, new pumps, piping, and valves, new electrical and control components and control building, and site improvements. A pulsed air mixing system will also be installed to address industrial FOG.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

Total cost of this project is estimated to be approximately \$4,732,600. The CCU will finance the project with funds from an existing loan from the Clean Water SRF Loan Program.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

Woodside South Alternatives

Alternative 1A – Increase Capacity to 1,700 gpm, Duplex Pumps, Maximize Existing Force

Main: Alternative 1A would maximize the velocity in the existing 10-inch force main, up to 7 ft/sec with a duplex submersible pump station. It is anticipated that this alternative will accommodate future flow conditions until Year 13 in a 20-year planning period with an approximate capital cost 210% of the selected alternative.

Alternative 1B – Increase Capacity to 1,700 gpm, Triplex Pumps, Maximize Existing Force

Main: Alternative 1B would maximize the velocity in the existing 10-inch force main, up to 7 ft/sec with a triplex submersible pump station. It is anticipated that this alternative will accommodate future flow conditions until Year 13 in a 20-year planning period with an approximate capital cost 240% of the selected alternative.

Alternative 2 – Increase Capacity to 2,000 gpm, Triplex Pumps, and New Parallel Force Main:

This alternative can accommodate anticipated 20-year flows, proposes a triplex submersible pump station and assumes a parallel 10-inch force main will be constructed adjacent to the existing force main. A dual force main will allow ideal velocities to be maintained under both current and future conditions, reducing O&M costs. The estimated capital cost for this alternative is approximately 270% of the selected alternative.

Alternative 3 – Increase Capacity to 1,500 gpm, Duplex Pumps, and Existing Force Main: This alternative would use the existing 10-inch force main and includes a duplex submersible pump station on a target design flow of 1,500 gpm at 166' TDH. This is the chosen alternative as it will accommodate future flow conditions until Year 9 in a 20-year planning period at a significantly reduced capital cost.

Walesboro Lift Station Alternatives

Alternative 1A – Increase Capacity to 4,400 gpm, Triplex Pumps, Maximize Existing Force

Main: Alternative 1A would maximize the velocity in the existing 16-inch force main, up to 7 ft/sec with a triplex submersible pump station. It is anticipated that this alternative will accommodate future flow conditions until Year 10 in a 20-year planning period with an approximate capital cost 190% of the selected alternative.

Alternative 1B – Increase Capacity to 4,400 gpm, Triplex Pumps, and New Parallel Force Main:

Alternative 1B would use the existing triplex submersible pump station and assumes a parallel 16-inch force main will be constructed adjacent to the existing force main. A dual force main will allow ideal velocities to be maintained under both current and future conditions, reducing O&M costs. It is anticipated that this alternative will accommodate future flow conditions until Year 10 in a 20-year planning period with an approximate capital cost 270% of the selected alternative.

Alternative 2 – Increase capacity to 6,100 gpm, Triplex Pumps, and New Parallel Force Main:

This alternative can accommodate anticipated 20-year flows, proposes a triplex submersible pump station and assumes a parallel 16-inch force main will be constructed adjacent to the existing force main. A dual force main will allow ideal velocities to be maintained under both current and future conditions, reducing O&M costs. The estimated capital cost for this alternative is 330% of the selected alternative.

Alternative 3 – Increase Capacity to 3,500 gpm, Triplex Pumps, Existing Force Main: This alternative would use the existing 16-inch force main and the existing triplex submersible pump station on a target design flow of 3,500 gpm at 122' TDH. This is the chosen alternative as it will accommodate future flow conditions until Year 4-8 in a 20-year planning period at a significantly

reduced capital cost.

No Action Alternative

The “**No Action**” alternative is neither practical, environmentally sound, nor economical. It will not address current equipment condition needs, and it will not accommodate near term wastewater flows in the two lift station basins.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed/Undisturbed Land (Figure 2): Work related to the lift stations improvements will occur to existing structures. All areas have been previously disturbed by previous construction activity.

Structural Resources: Construction and operation of the project will not alter, demolish or remove historic properties. If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF’s finding pursuant to Section 106 of the National Historic Preservation Act is: “*no historic properties affected.*”

Surface Waters (Figure 4): The project will not adversely affect outstanding state resource waters listed in 327 IAC 2-1.3-3(d), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2), or Salmonid Streams listed in (327 IAC 2-1.5-5(a)(3) or streams on the Outstanding River List for Indiana.

Wetlands (Figure 4): Mitigation measures to lessen and compensate for wetland impacts cited in comment letters about the project from the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

Floodplain (Figure 5): The project will not include dredge or fill in the floodway without a permit from IDNR Division of Water. No change in grade will occur within the floodplain.

Groundwater: The project will not impact a drinking water supply or sole source aquifer.

Plants and Animals: The proposed project items will be implemented to minimize impact to non-endangered species and their habitat. Mitigation measures cited in comment letters from the Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

Prime Farmland: The project will not convert prime farmland.

Air Quality: Construction activities may generate some noise, fumes and dust, but should not significantly affect air quality.

Open Space and Recreational Opportunities: The project will neither create nor destroy open space or recreational opportunities.

Lake Michigan Coastal Program: The project will not affect the Lake Michigan Coastal Zone.

National Natural Landmarks: Construction and operation of the proposed project will not affect National Natural Landmarks.

B. Indirect Impacts

Columbus City Utilities's Preliminary Engineering Report (PER) states: *The Columbus City Utilities, through the authority of its council, planning commission, or other means will ensure that future development, as well as future wastewater infrastructure projects, connecting to SRF-funded facilities, will not adversely affect wetlands, wooded areas, steep slopes, archaeological/historical/structural resources, or other sensitive environmental resources. CCU will require new development and infrastructure projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

In correspondence dated July 31, 2024, the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology stated:

Pursuant to IC 5-1.2-10, Section 1-6 of the National Historic Preservation Act (54 U.S.C. § 306108) and 36 C.F.R. Part 800, the Indiana State Historic Preservation Officer ("Indiana SHPO") is conducting an analysis of the materials dated and received by the Indiana SHPO on July 9, 2024, for the above indicated project in Columbus, Wayne Township, Bartholomew County, Indiana.

Based on our analysis, it has been determined that no historic properties will be altered, demolished, or removed by the proposed project. This analysis is subject to the following condition:

- *The proposed project activities at the Woodside South and Walesboro lift stations remain within previously disturbed areas.*

If any prehistoric or historic archaeological artifacts or human remains are uncovered during during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources 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 29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. 800.

In correspondence dated June 30, 2022, the United States Fish and Wildlife Service stated:

The USFWS did not note any critical habit in the project area for the endangered Indiana bat (*Myotis sodalis*) or the, now endangered, Northern long-eared bat (*Myotis septentrionalis*). The USFWS did not provide any conservation measures.

In correspondence dated August 8, 2024, the Department of Natural Resources Environmental Unit stated:

The Department of Natural Resources replied stating that the Natural Heritage Program's database was checked and that no plant or animal species listed as state or federally threatened, endangered, or rare have been reported in the project vicinity.

The Division of Fish and Wildlife recommendations to avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible in the proposed project area include:

1. *Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte,*

and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only.

2. Minimize and contain within the project limits all tree and brush clearing.

3. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.

4. If erosion control blankets are used, they shall be heavy-duty, biodegradable, and net free or use loose-woven/Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.

In correspondence dated September 26, 2022, the Natural Resources Conservation Service stated:

The proposed lift station improvements (Woodside 2 Sites A, B) in the, Bartholomew County, Indiana, as stated in your letter received August 10, 2022, will not cause a conversion of prime farmland.

VIII. MITIGATION MEASURES

Columbus City Utilities WW Woodside Phase II Addendum 1 states:

The majority of the environmental impacts will occur during construction of the proposed improvements. These issues are classified as temporary, since no significant, permanent impacts to environmental, historical, or other regulated resources are involved. These temporary construction impacts include the potential for noise, dust, and construction site erosion. Provisions will be included in the construction specifications to limit such problems and to provide erosion control in accordance with current state standards.

The work is expected to be completed during normal working hours, restricting any work-related nuisances to those hours. All construction equipment will be required to have mufflers to reduce noise pollution. Additionally, reasonable and proper construction techniques and clean up practices will be required of the contractor to reduce dust emissions. Proper surface wetting practices will be required.

IX. PUBLIC PARTICIPATION

A public notice was published on June 8, 2024, in The Republic. No comments were received during the following the notice.

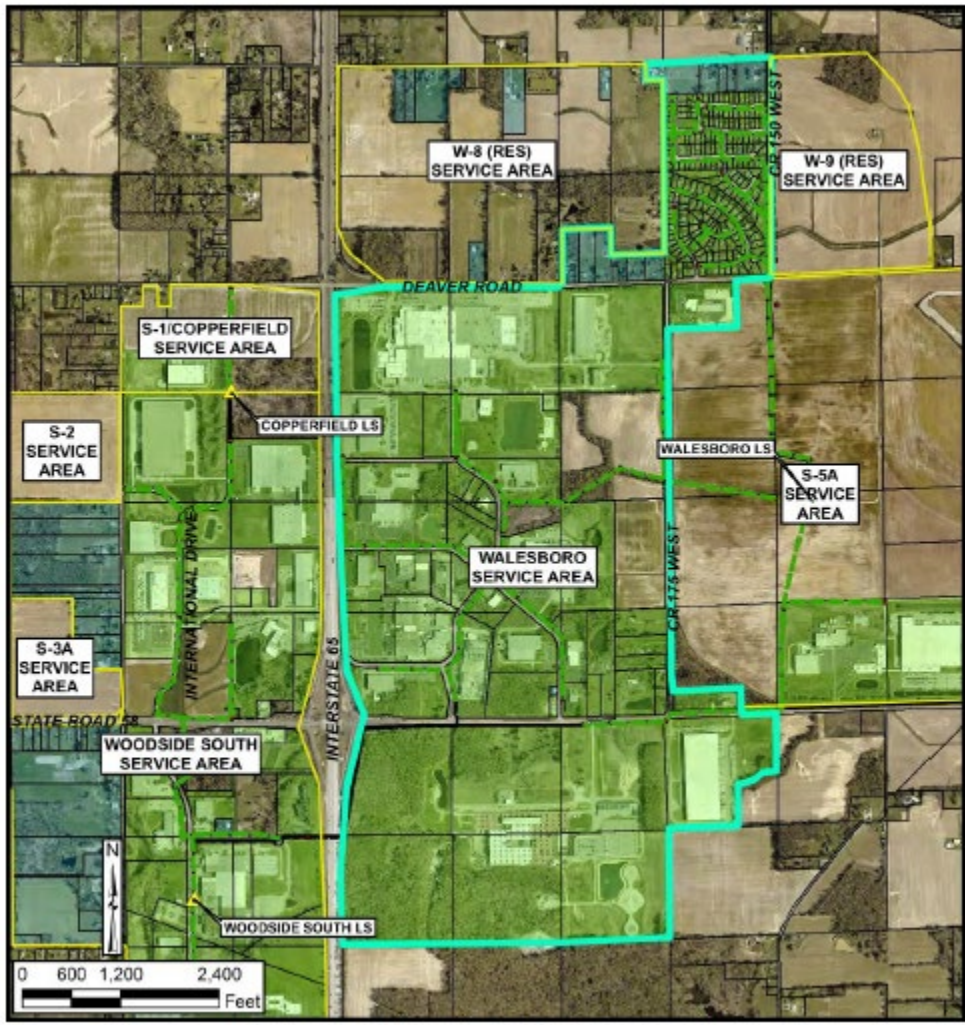
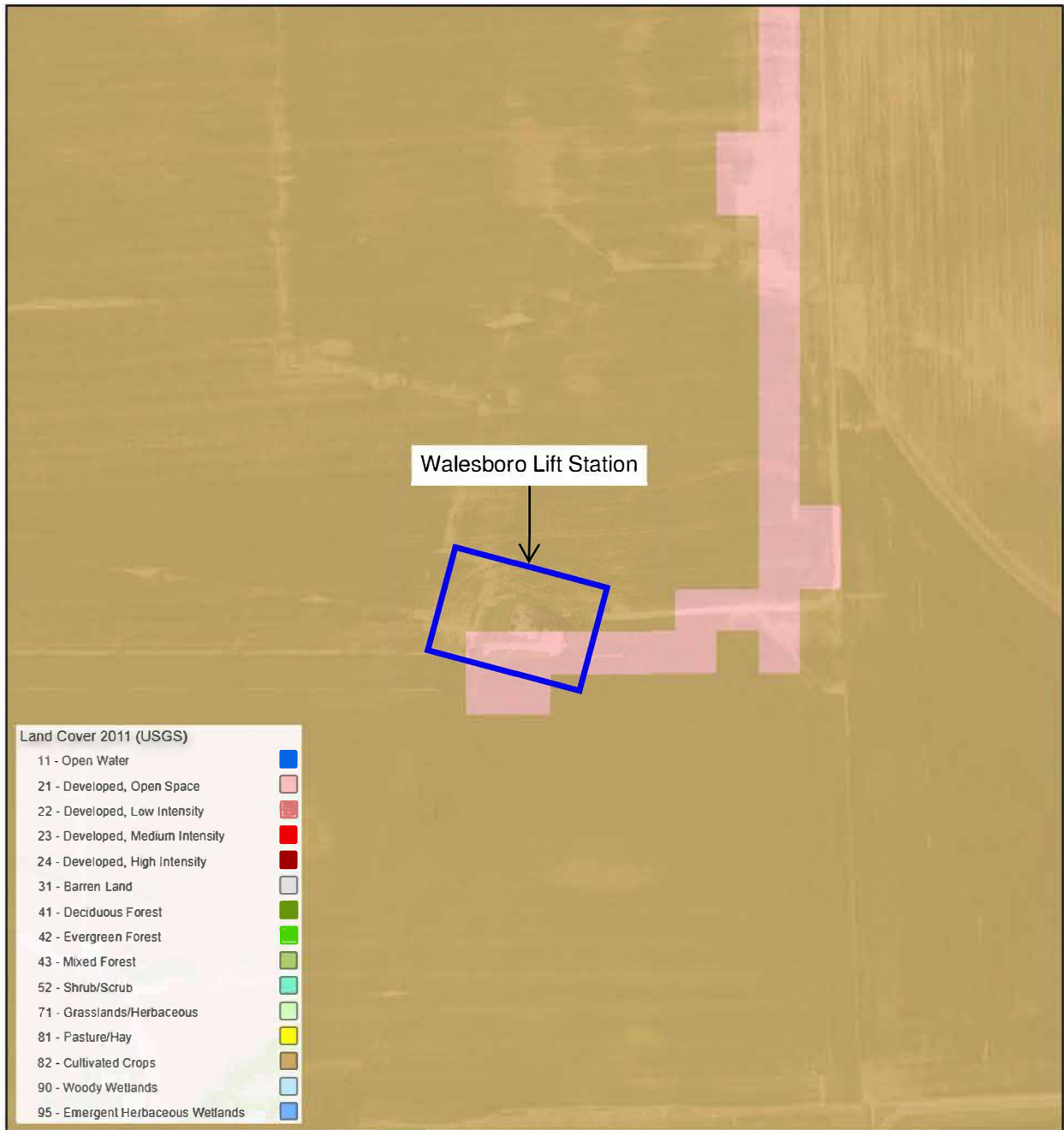


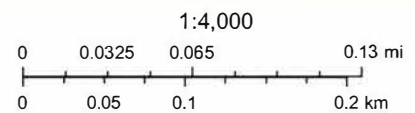
Figure 1B – Walesboro Existing Service Area Map

Land Use



May 21, 2024

NAIP Imagery (2018) Placeholder



U.S. Geological Survey, Multi-Resolution Land Characteristics (MRLC) Consortium
 Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
 Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data Portal

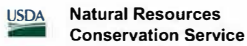


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CITY OF COLUMBUS
 BARTHOLOMEW COUNTY, INDIANA
 PRELIMINARY ENGINEERING REPORT

LAND USE MAP
 FIGURE 2

Hydric Rating by Map Unit—Bartholomew County, Indiana



Web Soil Survey
National Cooperative Soil Survey





















5/21/2024
Page 1 of 5



CITY OF COLUMBUS
BARTHOLOMEW COUNTY, INDIANA
PRELIMINARY ENGINEERING REPORT

SOILS MAP
FIGURE 3

MAP LEGEND

- Area of Interest (AOI)**
-  Area of Interest (AOI)
- Soils**
- Soil Rating Polygons**
-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available
- Soil Rating Lines**
-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available
- Soil Rating Points**
-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available
- Water Features**
-  Streams and Canals

- Transportation**
-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads
- Background**
-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bartholomew County, Indiana
 Survey Area Data: Version 26, Sep 1, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
LeaA	Lauer silt loam, 0 to 2 percent slopes	10	1.6	100.0%
Totals for Area of Interest			1.6	100.0%





U.S. Fish and Wildlife Service
National Wetlands Inventory

Walesboro Lift Station



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

May 21, 2024

Wetlands

- | | | | | | |
|--|--------------------------------|--|-----------------------------------|--|-------|
| | Estuarine and Marine Deepwater | | Freshwater Emergent Wetland | | Lake |
| | Estuarine and Marine Wetland | | Freshwater Forested/Shrub Wetland | | Other |
| | Freshwater Pond | | Riverine | | |

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



