



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

TOWN OF BROWNSBURG WWTP, Collection System and Lift Station improvements Phase 1 SRF PROJECT WW 16 04 32 03

DATE: August 12, 2016

TARGET PROJECT APPROVAL DATE: September 12, 2016

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 wastewater 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 at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Clean Water 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 4-4-11, 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/FNSI. Comments must be received at the address below by the target approval date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI 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 FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

April Douglas
Senior Environmental Manager
State Revolving Fund
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
317-234-7294; adouglas@ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address: **Wastewater Treatment Plant (WWTP) Expansion and Sanitary Sewer System Improvements Phase I**
Town of Brownsburg
61 North Green Street
Brownsburg, IN 46112

SRF Project Number: WW 16 04 32 03

Authorized Representative: Grant Kleinhenz, Town Manager

II. PROJECT LOCATION

The proposed projects are located in Hendricks County, Lincoln Township in Township 16N, Range 1E, Sections 3, 4 and 10 on the Brownsburg quadrangle. See Figure 1.

III. PROJECT NEED AND PURPOSE

The purpose/need of the project is to increase the system’s capacity, due to population growth in the project areas.

IV. PROJECT DESCRIPTION

The proposed project consists of the construction of the following components:

Collection System Improvements (Phase I)

- US 136 Lift Station with three (3) 1200 gpm pumps;
- Approximately 5,100 linear feet of 12-inch diameter forcemain (“1st forcemain”);
- Approximately 2,035 linear feet of 48-inch diameter gravity sewer main; and
- Miscellaneous appurtenances.

West WWTP Expansion

- Screen building, including one (1) mechanical screen and one (1) manual screen;
- Flow splitter;
- Approximately 200 linear feet of 18-inch diameter forcemain, connecting West Plant to East Plant;

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

NORTH AREA SANITARY SEWER COLLECTION SYSTEM EXPANSION ALTERNATIVES:

- Alternative 1 – North Regional Lift Station Only
- Alternative 2 – North Regional and US 136 Lift Stations (Selected plan)
- Alternative 3 – No Action

WEST WWTP EXPANSION ALTERNATIVES FOR VARIOUS PROCESS UNITS:

Preliminary Treatment

- Alternative 1 – Mechanical Perforated Plate Screen
- Alternative 2 – Mechanical Auger Screen
- Alternative 3 – Mechanical Rake Screen (Selected plan)
- Alternative 4 – No Action

Biological Treatment

- Alternative 1 – Conventional Activated Sludge
- Alternative 2 – Extended Aeration
- Alternative 3 – Oxidation Ditch (Selected plan)
- Alternative 4 – No Action

Secondary Clarifiers

- Alternative 1 – Rapid Sludge Pickup
- Alternative 2 – Conventional Scrapers
- Alternative 3 – Spiral Scrapers (Selected plan)
- Alternative 4 – No Action

Tertiary Filtration **

- Alternative 1 – Continuous Backwash Filter
- Alternative 2 – Conventional Dual Media Filter
- Alternative 3 – Cloth Media Disc Filter (Selected as bid alternate)
- Alternative 4 – No Action

Phosphorus Removal

- Alternative 1 – Biological Phosphorus Removal
- Alternative 2 – Chemical Phosphorus Removal (Selected plan)
- Alternative 3 – No Action

Disinfection

- Alternative 1 – Liquid Chlorine Disinfection
- Alternative 2 – Gas Chlorine Disinfection
- Alternative 3 – Ultraviolet Disinfection (Selected plan)
- Alternative 4 – No Action

Cascade Aeration and Outfall Pipe **

- Alternative 1 – New Cascade Aeration, New Outfall and Abandon Existing
- Alternative 2 – Reuse Existing Cascade Aerators, New Cascade Aerators, and New Outfall (Selected as bid alternate)
- Alternative 3 – No Action

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

B. Indirect Impacts

The town of Brownsburg's PER states: *The Town, through the authority of its Council and Planning Commission will ensure that future development, as well as future collection system or treatment works projects connecting to SRF funded facilities will be properly permitted with their regard to impacting archaeological/historical/structural resources, wetlands, wooded areas, or other sensitive environmental resources. New development and treatment work projects will 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 7, 2016, the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology stated:

Pursuant to IC 13-18-21 and 327 LAC 14 and Section 106 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 June 14, 2016, for the above indicated project in Brownsburg, Hendricks County, Indiana.

In regard to archaeological resources, we note that there is one archaeological site (12He15) recorded within the project area, and one 12He381) which is either in or immediately adjacent to the project area. Both of these sites are not eligible for the National Register of Historic Places. As long as the portions of the project area which were not archaeologically investigated during the survey by Accidental Discoveries have been previously disturbed by prior construction activities, then no additional archaeological investigations appear necessary.

Therefore, based on our analysis, it has been determined that no historic properties will be altered, demolished, or removed by the proposed project.

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 & 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 July 14, 2016, the United States Fish and Wildlife Service stated that they had no comments on the project.

In correspondence dated July 12, 2016 the Department of Natural Resources Environmental Unit Stated:

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

5. *Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.*
6. *Do not use broken concrete as riprap.*
7. *Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.*
8. *Minimize the movement of resuspended bottom sediment from the immediate project area.*
9. *Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway.*
10. *Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.*
11. *Seed and protect all disturbed streambanks that are 3:1 or steeper with heavy-duty net-free biodegradable erosion control blankets to minimize the entrapment and snaring of small wildlife such as snakes and turtles (follow manufacturer's recommendations for installation); seed and apply mulch on all other disturbed areas.*

In correspondence dated March 7, 2016 the Natural Resources Conservation Service Stated:

The proposed project to make sewer improvements in the Town of Brownsburg, Hendricks County, Indiana, as stated in your letter received March 3, 2016, will not cause a conversion of prime farmland.

VIII. MITIGATION MEASURES

The Town of Brownsburg's PER states:

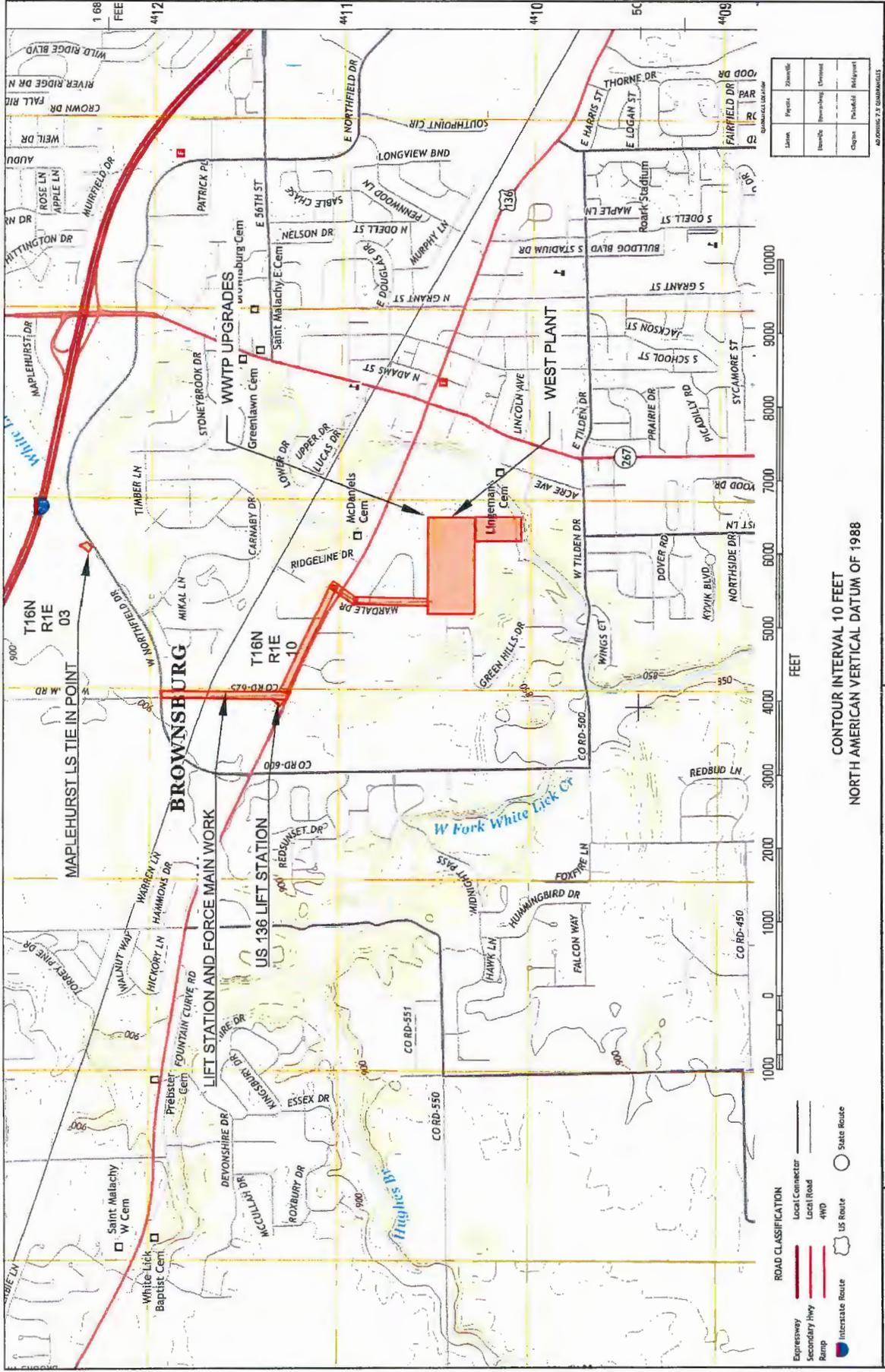
The alternatives considered will result in a number of short term environmental impacts. These impacts will be related primarily to project construction activities.

The construction specifications will require that proper measures be utilized to control storm water runoff and erosion from the construction site. Additionally, the specifications will require measures to reduce the creation of dust, odor, airborne contaminants, and other nuisances from construction activities. Efforts will be made to avoid construction-related impacts. Where an impact cannot be avoided appropriate mitigation measures will be utilized.

IX. PUBLIC PARTICIPATION

A properly noticed public hearing was held on June 23, 2016, at 7:00 pm at the Brownsburg Town Hall to discuss the PER. Written comments regarding water and sewer rate increases were received during the 5-day comment period following the hearing.

Figure 1 – USGS Quadrangle Map with project location



		TOWN OF BROWNSBURG, INDIANA PRELIMINARY ENGINEERING REPORT	PROPOSED WORK AREAS USGS MAP: BROWNSBURG QJAD SCALE: AS SHOWN	ARCADIS US INC OCTOBER 2015
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Lincoln Township (40001-042) Report Historic Sites and Structures Inventory

Figure 3 – from the Hendricks County Interim Report Historic Sites and Structures Inventory

Lincoln Township is located in the eastern portion of Hendricks County with Marion County forming its eastern border. Named in honor of President Abraham Lincoln, the township was created from neighboring Brown Township by an act of the Hendricks County Commissioners in 1863.

Lincoln Township's early settlement is closely tied with that of Brown Township. The first settler in the area was James Brown who arrived in the fall of 1824. Early settlers in the vicinity of Brownsburg were Asa McDaniel, Joel Smith, and Peter Metsker. The first school was taught by Archibald Thorne in 1828 or 1829 at the Regular Baptist Church. A second school opened in 1832 just west of Brownsburg. One of the earliest businesses of the township was Swaim's Tavern, located approximately two miles east of Brownsburg.

Lincoln Township had the first sizable Catholic population in Hendricks County. The St. Malachy's congregation was organized in 1867 and was the only Catholic church in Hendricks County until 1914.

Lincoln Township's major town is Brownsburg which was laid out in 1835 by William Harris and was originally known as Harrisburg. The name of the town was changed when the post office was established on March 17, 1836.

Tyrone and Tilden were two other Lincoln Township villages. Tyrone was laid out along the Cincinnati, Hamilton, and Dayton Railroad but no longer exists. Tilden, originally known as Oakley, is on the Middle-Lincoln Township line and was platted on land donated by Oakley Parker along the route of the Indianapolis, Decatur and Western Railroad. In 1895 a two-room schoolhouse (40016) was constructed at Tilden as a joint project of the two townships with Lincoln responsible for its management.

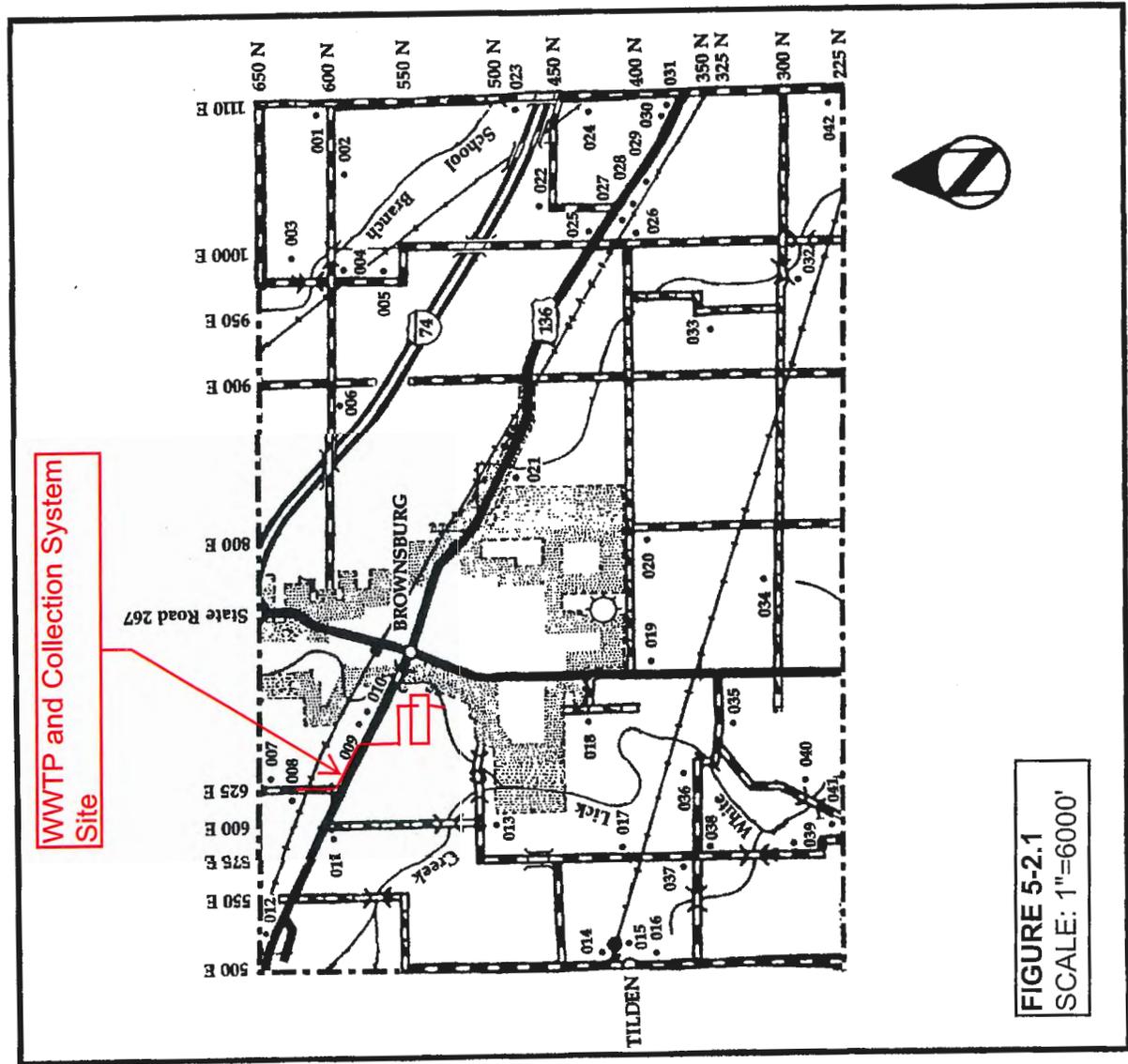


Figure 4 – Wetlands Map with project location

