



# State Revolving Fund Loan Programs

## Drinking Water, Wastewater, Nonpoint Source

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### ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

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**CITY OF FORT WAYNE**  
**BECKETT RELIEF SEWER - PHASE 2**  
**STATE REVOLVING FUND PROJECT WW 14 31 02 07 - Project 7**

**DATE: October 1, 2014**

**TARGET APPROVAL DATE: November 1, 2014**

#### I. INTRODUCTION

The above entity has applied to the State Revolving Fund (CWSRF) 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 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 deadline 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 – IGCN 1275**  
**100 N. Senate Ave.**  
**Indianapolis, IN 46204**  
**317-234-7294**  
**adouglas@ifa.in.gov**

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# ENVIRONMENTAL ASSESSMENT

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## I. PROJECT IDENTIFICATION

Project Name and Address: **Beckett Relief Sewer - Phase 2**  
City of Fort Wayne  
200 East Berry Street, Suite 270  
Fort Wayne, IN 46802

SRF Project Number: WW14 31 02 07 – Project 7

Authorized Representative: Kumar Menon,  
Director of Public Works and Utilities

## II. PROJECT LOCATION

Fort Wayne is located in central Allen County. The proposed Beckett Relief Sewer is located in Huntertown USGS quadrangle, Perry Township, T31N, R12E, and section 3.

## III. PROJECT NEED AND PURPOSE

The Northern Area Master Plan was written in 2004 and revised in 2005. It addresses the overall sewer capacity in the northern area of the city and north of the city. The St. Joseph interceptor, which is addressed in the city's Long Term Control Plan, has reached its peak capacity and surcharges during the 10-year, 6-hour design storm, as do the other interceptors which feed into it: the Swift, Martin and Beckett Run interceptors.

The proposed project will provide relief to the 21-inch Beckett Run Interceptor by constructing a flow equalization (EQ) tank and a pump station with its associated force main. A new diversion structure containing a weir will be installed on the Beckett Run Interceptor, which will allow flows above 4.0 million gallons per day, the capacity of the interceptor, to be diverted to the EQ tank through a proposed 24-inch gravity sewer. When the flow level in the interceptor downstream of the EQ tank drops to about half of the depth of interceptor the pump station will be activated. Stored flows from the tank will then be pumped through a new 18-inch force main into the interceptor over a 24 hour period.

## IV. PROJECT DESCRIPTION

The proposed project includes (see Figure 1):

- A. constructing an approximately 860,000 gallon storage tank;
- B. installing approximately 350 feet of 18-inch diameter force main;

- C. installing approximately 350 feet of 24-inch polyvinyl chloride (PVC) gravity sewer; and
- D. installing a pump station with a rated capacity of 660 gallons per minute (gpm).

**V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING**

A. Selected Plan Estimated Cost Summary

<u>Construction Components</u>	<u>Costs</u>
FEQ Tank	\$ 2,000,000
18-Inch Force Main	87,500
24-Inch Gravity Sewer	105,000
Pumping Station	300,000
Electrical Controls	<u>100,000</u>
<b>Sub Total Construction Cost</b>	<b>\$ 2,592,500</b>
Contingency Cost	<u>\$ 259,250</u>
<b>Total Construction Cost</b>	<b>\$ 2,851,750</b>
<u>Non-Construction</u>	<u>Costs</u>
Design	\$ 400,000
Construction Management & Inspection	230,000
Financial and Legal	<u>100,000</u>
<b>Total Non-Construction Cost</b>	<b>\$ 730,000</b>
<b>Total Project Costs</b>	<b>\$ 3,581,750</b>

- B. Fort Wayne will finance the project with a loan from the State Revolving Fund Loan Program for a 20-year term at an annual fixed interest rate to be determined at loan closing. The monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

**VI. DESCRIPTION OF EVALUATED ALTERNATIVES**

Four alternatives were evaluated for the Beckett Relief Sewer – Phase 2 project including the “No Action” alternative.

A. **“No Action”**

This alternative was rejected, since the Beckett Run Interceptor would continue to surcharge during wet weather events and the city would not be in compliance with its Consent Decree.

B. **Optimal Operation of Existing Facilities**

Due to the interceptor’s inadequate capacity to relieve surcharging conditions during wet weather events, this alternative was rejected.

C. **Collection System Rehabilitation**

This alternative was rejected because rehabilitation of the existing sewers will not address the problems with surcharging and flooding.

#### D. Beckett Relief Sewer Alternative

This alternative involves the construction of a storage tank that would store excess flows from the Beckett Run Interceptor and then discharge the wastewater when flows in the interceptor reach about half of depth of the interceptor.

### VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

#### A. Direct Impacts of Construction and Operation

**Disturbed and Undisturbed Areas:** The proposed project will be constructed in a residential area that has been previously disturbed. The proposed EQ tank will be constructed where a single family dwelling will be demolished.

**Structural Resources and Historic Sites:** The proposed project should not affect any historical or architectural structures. Construction and operation of the project will not alter, demolish or remove historic properties. If any visual or audible impacts to historic sites 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 the Section 106 of the National Historic Preservation Act is: "no historic properties affected."

**Plants and Animals:** The construction and operation of the project will not impact state or federal-listed endangered species or their habitat. Approximately 12 trees and some shrubs will have to be removed on the proposed site.

**Prime Farmland:** The proposed project will not cause a conversion of prime farmland.

**Wetlands:** The proposed project will not affect wetlands.

**100-Year Floodplain:** The proposed project will not take place within the 100-year floodplain.

**Surface Waters:** The proposed project will not adversely affect waters of high quality listed in 327 IAC 2-1-2(3), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7(2), Salmonid Streams listed in 327 IAC 2-1.5-5(a)(3), or waters on the Outstanding Rivers list. Two stream crossings will occur when both the proposed gravity sewer and force main are installed by open cut.

**Groundwater:** Construction of the proposed project will not affect groundwater quality.

**Air Quality:** Dust and noise will be produced during construction activities.

**Open Space and Recreational Opportunities:** The proposed project's construction will neither create nor destroy open space and recreational opportunities

The proposed project will not affect National Natural Landmarks or the Lake Michigan Coastal Zone.

## **B. Indirect Impacts of Construction and Operation**

The city's Preliminary Engineering Report (PER) states: *The City of Fort Wayne will ensure through the authority of its Council planning commission, or other means, will ensure that future development, as well as future collection system or treatment works projects connecting to SRF funded facilities will not adversely impact wetlands, wooded areas, steep slopes, archaeological/historical/structural resources, or other sensitive environmental resources. The City will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM and other environmental authorities.*

## **C. Comments from Environmental Review Authorities**

This document serves as the first notice to the Indiana Department of Natural Resources Environmental Unit and Department of Historical Preservation and Archaeology, and the U. S. Fish and Wildlife Service.

In correspondence dated August 13, 2014 the Natural Resources Conservation Service stated: *The proposed project...will not cause a conversion of prime farmland.*

## **VIII. MITIGATION MEASURES**

The city's Preliminary Engineering Report lists the following mitigation measures:

*The project will be designed and implemented to minimize soil erosion and mitigation measures cited in comment letters from governing agencies will be implemented.*

*Erosion control measures including seeding, sodding, inlet protection, silt fence, stone construction entrance and dust control may be implemented in accordance with current soil erosion control practices at the time of construction to reduce/eliminate erosion of soils.*

*Mitigation measures will be implemented as requested by the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service.*

*To mitigate construction noises and the subsequent resident complaints, construction will only be allowed from 7:00 a.m. to 5:00 p.m. Monday through Friday. Appropriate erosion control measures will be implemented during construction to abate dust and airborne dirt particles. The contractor will be required to maintain all equipment in good working order to mitigate noise and air pollution caused by faulty operating equipment.*

## **IX. PUBLIC PARTICIPATION**

A properly noticed public hearing was held on August 13, 2014 at 10:00 a.m., in the Council Chambers, Room 035, Citizens Square, 200 East Main Street. The city did not receive written comments in the 5-day period following the public hearing.



# BECKETT'S RELIEF SEWER



**Legend**

	Proposed Manhole
	Pump Station/Valve Vault
	Storage Tank
	Proposed Force Main
	Proposed Gravity Main
	Existing Sanitary Sewer
	Disturbance Area

**FIGURE 1**

0 30 60  
Feet

Revised 9/24/14